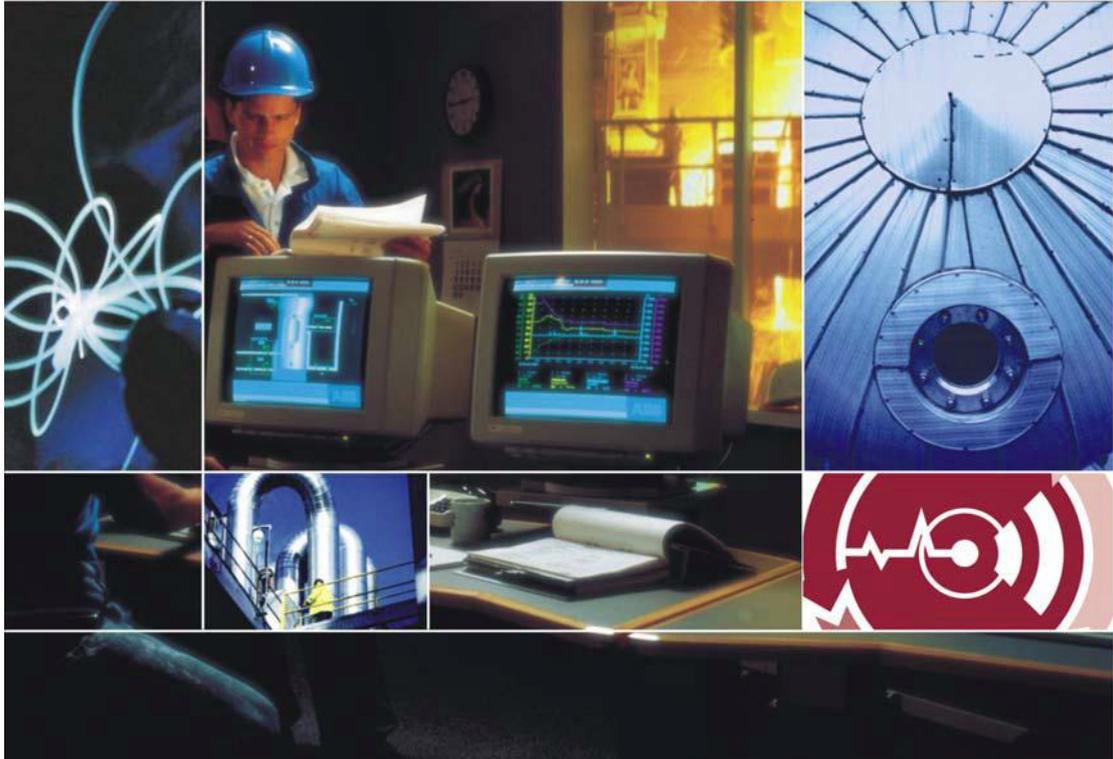


Trip Requirement and Availability Calculator (TRAC)

Installation Guide for a New User

Version 3.8(47)



TRAC

Trip Requirement and Availability Calculator

TRAC is a validated, professionally developed package for Instrumented Protection System SIL Determination and Design in accordance with IEC 61508 & IEC 61511.

Installation Guide

1. How to Launch the TRAC Installer.....	3
2. Installing the TRAC Client.....	4
3. Installing the Microsoft Access 2003 Runtimes.....	7
4. Installing the Microsoft Access 2003 SP3.....	9
5. Installing the Microsoft Office Post SP3 Hotfix.....	11
6. Installing MSDE –TRAC Server.....	13
6.1 Installing TRAC Server (SQLEXPRESS).....	14
6.2 Installing TRAC Server (MSDE2000).....	25
7. Starting the TRAC Server.....	26
7.1 Starting TRAC Server (SQLEXPRESS).....	26
7.2 Starting TRAC Server (MSDE2000).....	27
8. Licensing TRAC.....	28
9. Creating your first TRAC database.....	32
10. Opening a TRAC database.....	34

Welcome to TRAC.

This document provides instructions for new users installing the TRAC software on a **standalone PC** i.e. **both client and server software are running on the same PC**. For details on how to install and configure TRAC on networks, please refer to the TRAC User Manual or TRAC Help Files.

This Installation Guide covers TRAC versions 3.8(47) onwards.

1. How to Launch the TRAC Installer

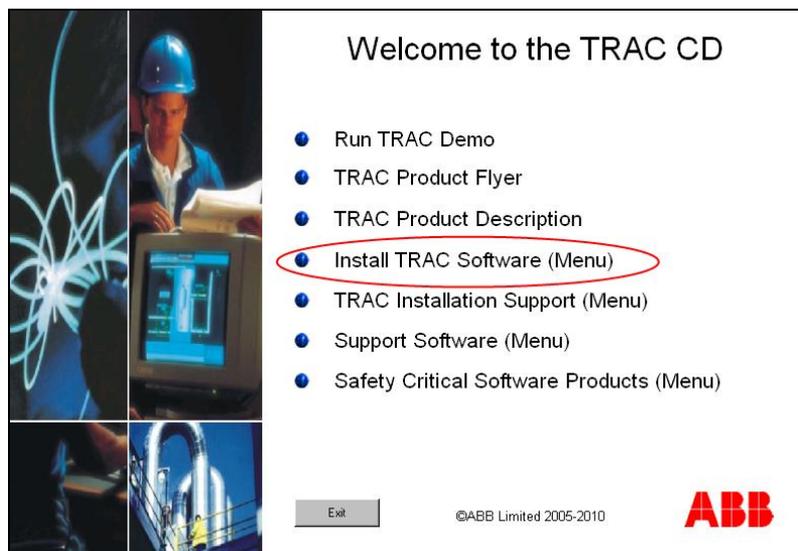
Please follow all the steps below to launch the TRAC Installer:

1. Insert the TRAC CD into the CD drive on the PC. The TRAC menu system should launch automatically. (If not, then navigate onto the CD and double click **autorun.exe**)

If you have obtained TRAC via the website, then you will need to unzip the contents of the downloaded ZIP file into a folder on your local PC. You can then navigate to this folder and double click the file **autorun.exe**



2. Select the option '**Install TRAC Software (Menu)**'

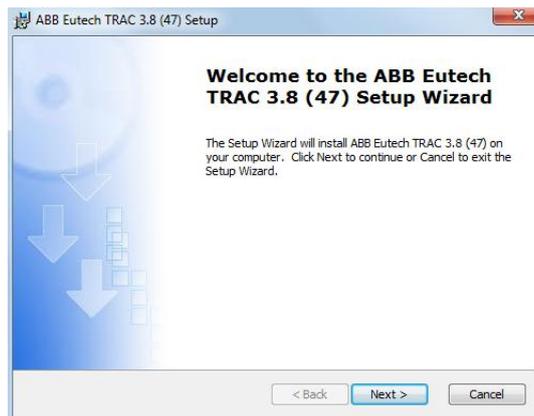


2. Installing the TRAC Client

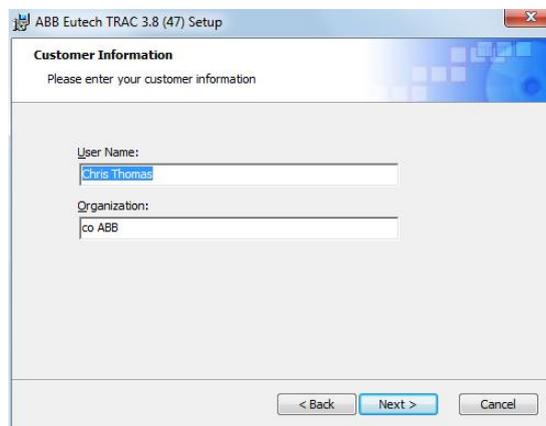
1. Please read the instructions and then select **'Install TRAC Client Software'**.



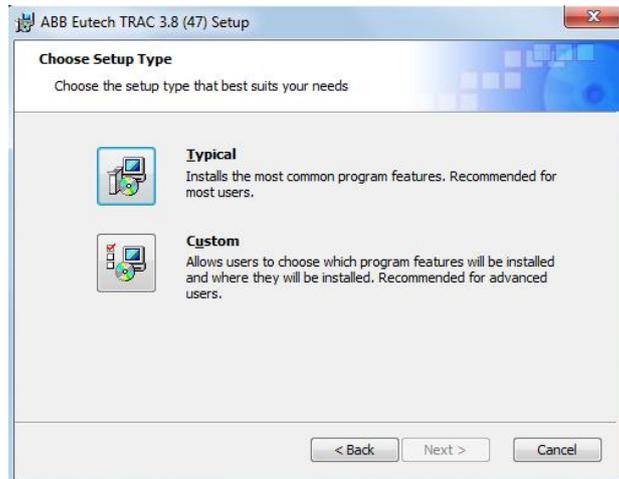
2. The TRAC Installation program will now begin. Click **Next** to continue



3. Please enter the required information and click **'Next'**



4. Please select **Typical** as the installation option



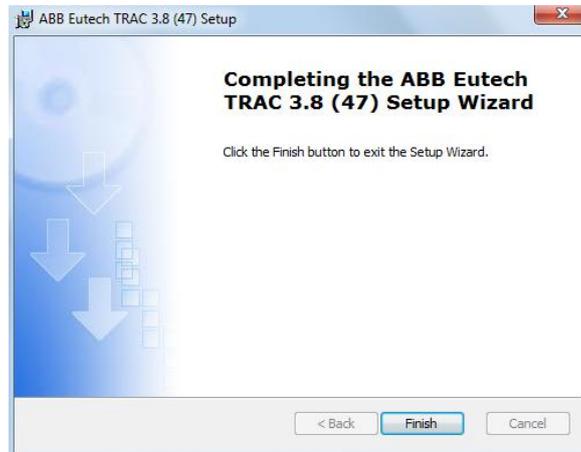
5. Please select **'Install'**



On some computers you may receive a message telling you there was a **'Starting Error'** This can be ignored (Click the OK button) and will not affect on your installation.



6. A dialogue box will confirm that the TRAC client software has been installed. Please click **'Finish'** to continue the installation.



Notes:

Depending on the security configuration of your PC, you may need administrative rights to install and register the TRAC software.

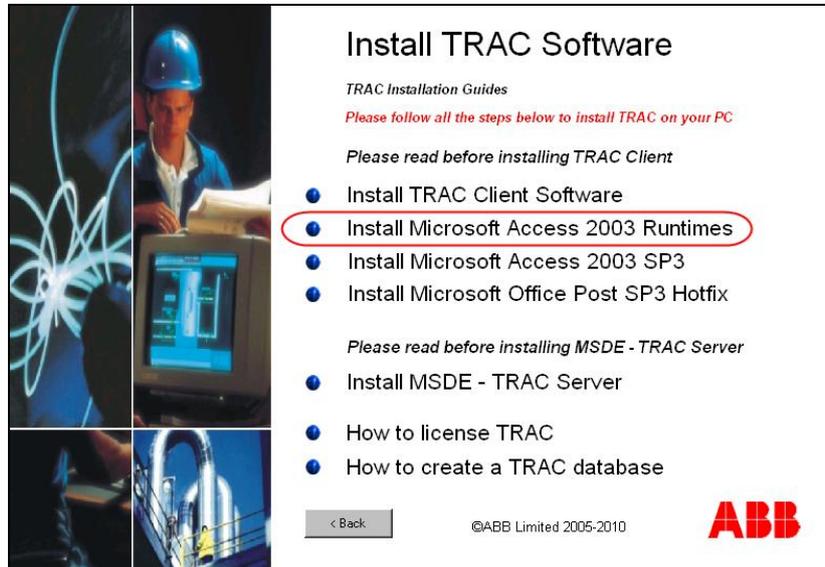
In Windows 2000 or later, then certain permissions need to be set as a minimum. The following table shows the permissions required for folders/files created during the Client installation

Name	Type	Location	Permissions
ABB Eutech	Folder	C:\Program Files	Read/Execute
ABBeutCIMLib	Folder	C:\Program Files\ABB Eutech	Read/Execute
TRAC.ADE	File	TRAC Version folder on C:\Program Files\ABB Eutech	Write

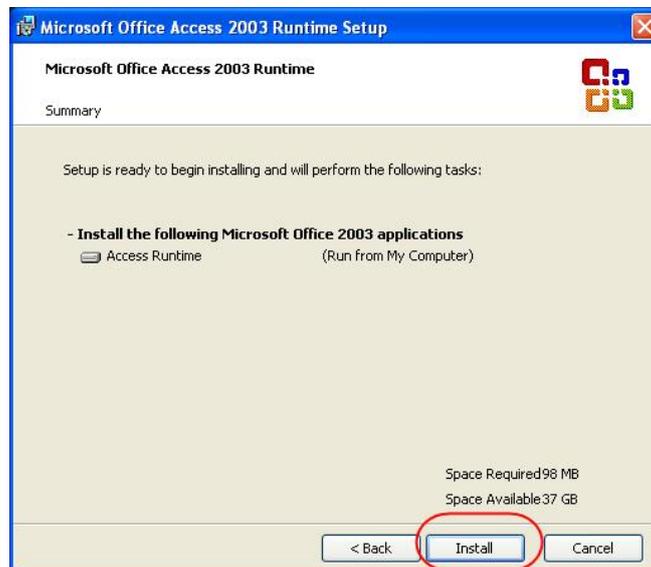
See 'Windows NT Security' in the **TRAC Help Files** for further guidance

3. Installing the Microsoft Access 2003 Runtimes

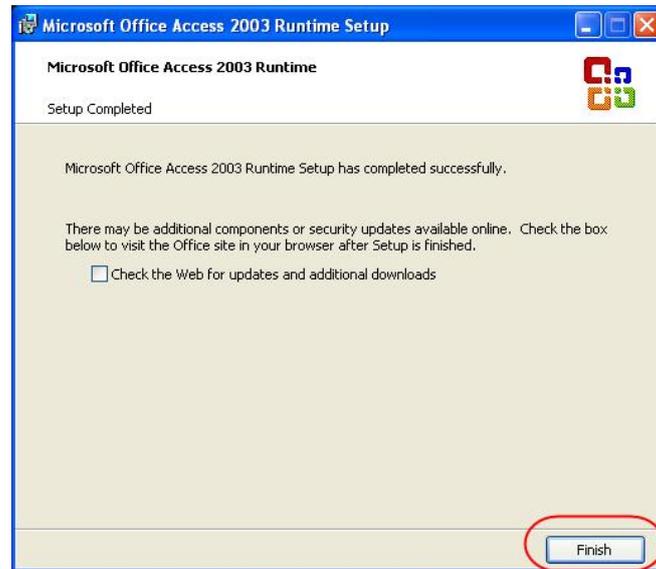
1. The TRAC software requires Microsoft Access 2003 to be installed. If you do not already have a copy installed on your PC, you must install the Access 2003 Runtimes provided in the installer. Return to the 'Install TRAC Software menu' and select 'Install Microsoft Access 2003 Runtimes'.



2. Please click **Install** to start the installation process



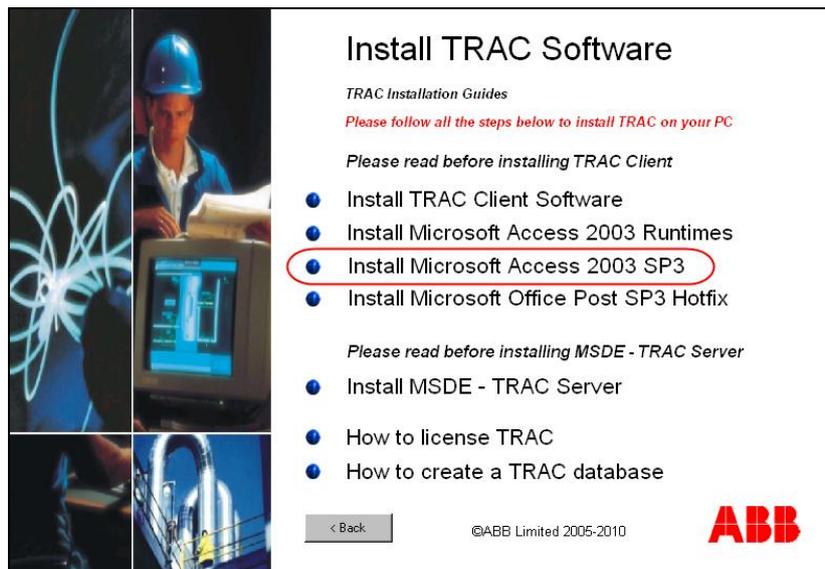
3. When the installation has completed, the 'Setup Completed' screen will be displayed. Please click **Finish**



4. Installing the Microsoft Access 2003 SP3

TRAC requires that the Microsoft Access runtimes have the most recent service pack applied to them. If you previously had Microsoft Access on your PC and have therefore not installed the Runtimes (as instructed above), please check whether you have Service Pack 3 applied to your version of Microsoft Access (this can be found on the Help About screen of Microsoft Access). If your Microsoft Access does have Service Pack 3 applied, then you are not required to install the Service Pack 3 as per the following instructions. You may however be required to install the Microsoft Office Post SP3 Hotfix

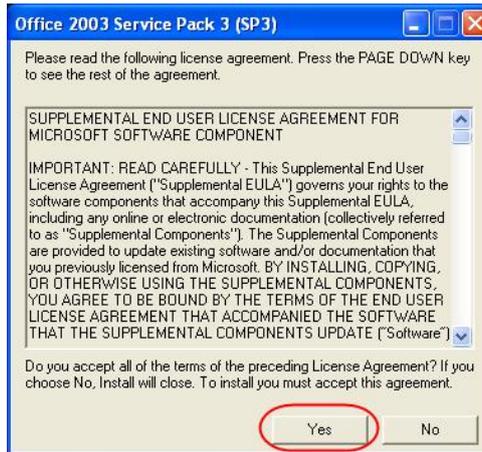
1. To install Microsoft Access Service Pack 3, return to the 'Install TRAC Software' menu and select **Install Microsoft Access 2003 SP3**



2. Please select **Yes** when asked if you want to install the update



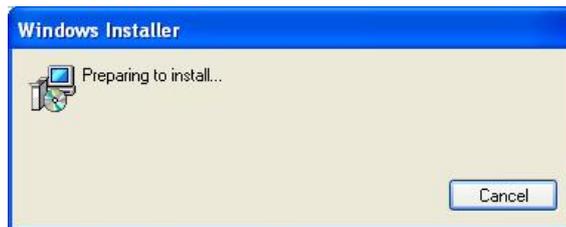
Please select **Yes** to accept the licence agreement



The relevant files will be extracted



and then the Service Pack will start preparations to install



When the Service Pack is ready, it will start the installation process



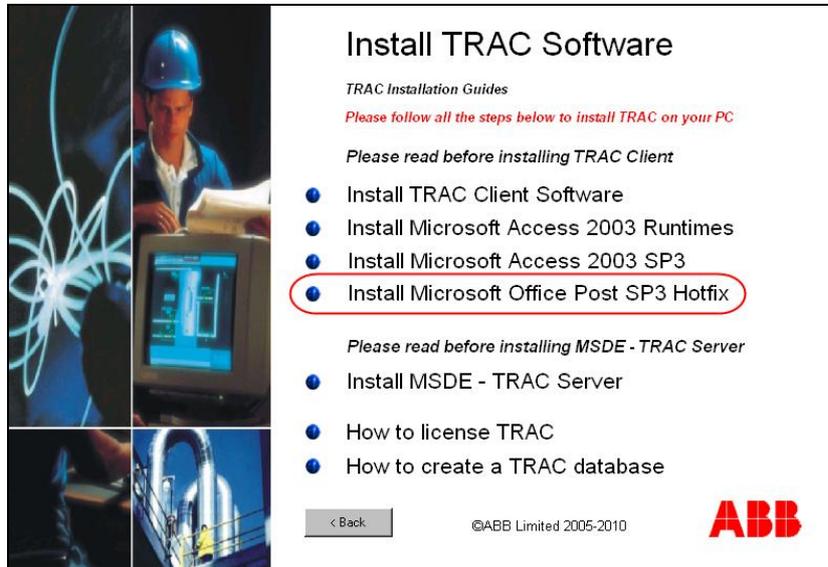
When the installation process has completed, you will be notified. Please click the **OK** button to finish



5. Installing the Microsoft Office Post SP3 Hotfix

In order to ensure the correct functionality of the TRAC system we recommend that you install the Microsoft Office Post SP3 Hotfix.

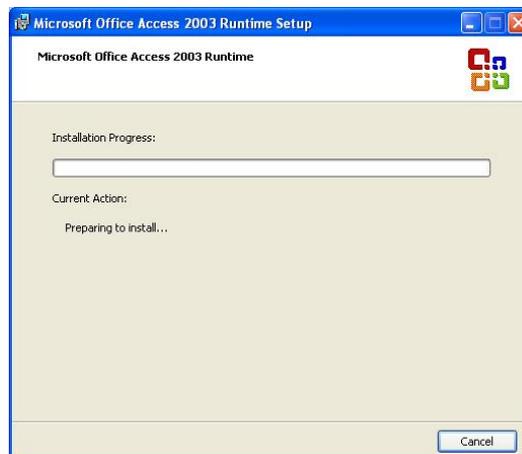
1. To install Microsoft Office Post SP3 Hotfix, return to the '**Install TRAC Software**' menu and select **Install Microsoft Office Post SP3 Hotfix**



2. To install Microsoft Office Post SP3 Hotfix, return to the '**Install TRAC Software**' menu and select **Install Microsoft Office Post SP3 Hotfix**
3. The Hotfix will start preparations to install



When the Hotfix is ready, it will start the installation process



When the installation process has completed, you will be notified. Please click the **OK** button to finish

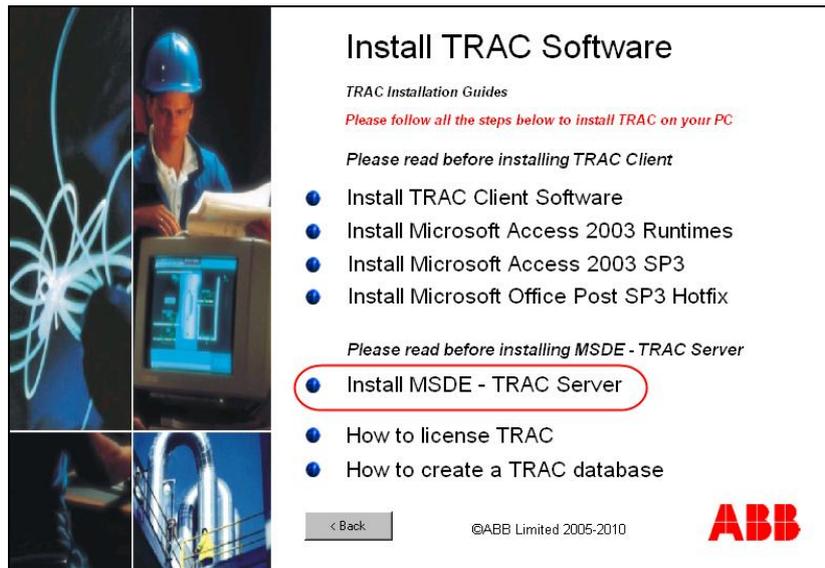


6. Installing MSDE –TRAC Server

If you want to be able to create TRAC databases on your local PC, you will need to install the TRAC Server

Please note that both MSDE and SQLExpress, supplied as part of the TRAC installation, can only be used for TRAC & TRAMS databases. Your organisation must hold the appropriate Microsoft licenses to use MSDE for any other application databases

1. To install MSDE – TRAC Server, return to the 'Install TRAC Software' menu and select **Install MSDE – TRAC Server**



Install TRAC Software

TRAC Installation Guides

Please follow all the steps below to install TRAC on your PC

Please read before installing TRAC Client

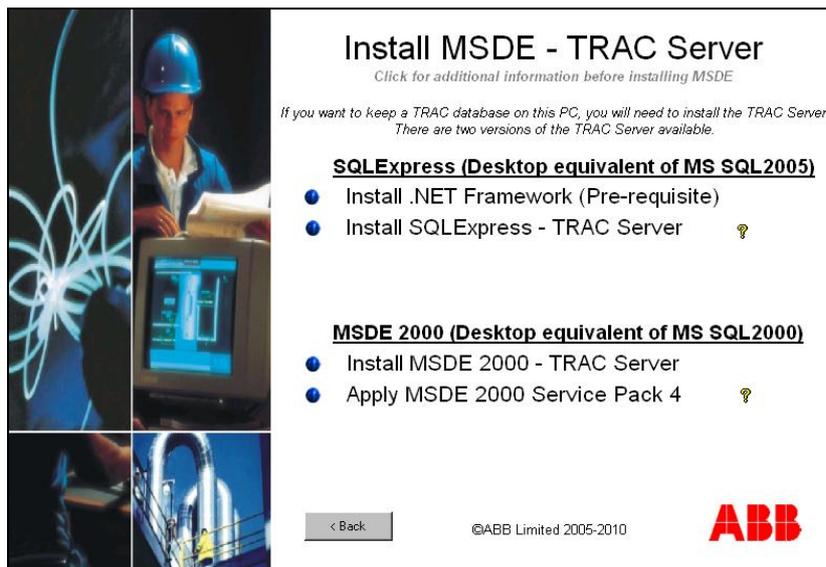
- Install TRAC Client Software
- Install Microsoft Access 2003 Runtimes
- Install Microsoft Access 2003 SP3
- Install Microsoft Office Post SP3 Hotfix

Please read before installing MSDE - TRAC Server

- **Install MSDE - TRAC Server**
- How to license TRAC
- How to create a TRAC database

< Back ©ABB Limited 2005-2010 **ABB**

2. There are two versions of the TRAC Server (MSDE2000 and SQLExpress).



Install MSDE - TRAC Server

Click for additional information before installing MSDE

If you want to keep a TRAC database on this PC, you will need to install the TRAC Server. There are two versions of the TRAC Server available.

SQLExpress (Desktop equivalent of MS SQL2005)

- Install .NET Framework (Pre-requisite)
- Install SQLExpress - TRAC Server ?

MSDE 2000 (Desktop equivalent of MS SQL2000)

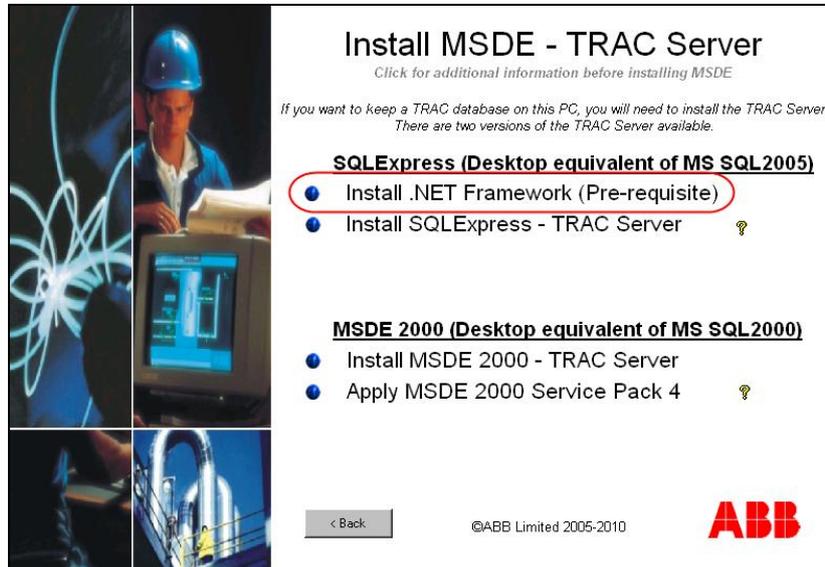
- Install MSDE 2000 - TRAC Server
- Apply MSDE 2000 Service Pack 4 ?

< Back ©ABB Limited 2005-2010 **ABB**

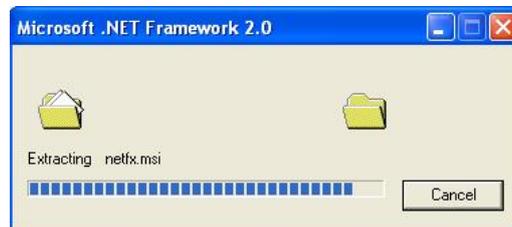
6.1 Installing TRAC Server (SQLEXPRESS)

Before installing the TRAC Server (SQLEXPRESS) you will need to install the .NET Framework Version 2.0

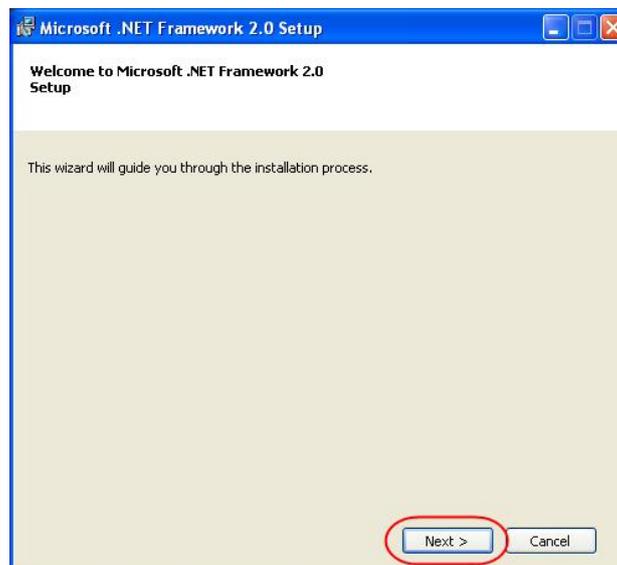
1. From the **Install MSDE – TRAC Server** screen, click **Install .NET Framework (Pre-requisite)**



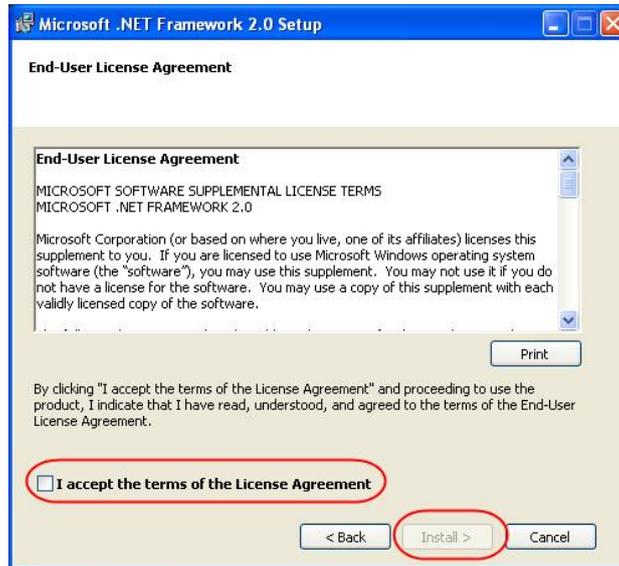
2. The relevant files will be extracted to a temporary location



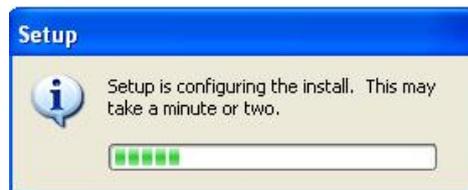
3. When all files have been extracted, the .NET Framework is ready for installation. Click Next to start the installation



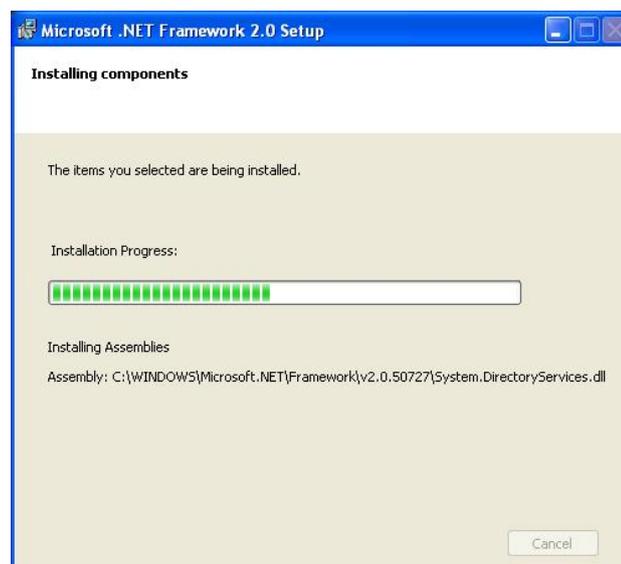
- When the **End User License Agreement** form is displayed ensure the **I accept the terms of the License Agreement** checkbox is ticked. This will enable the **Install** button/ Click this **Install** button to continue



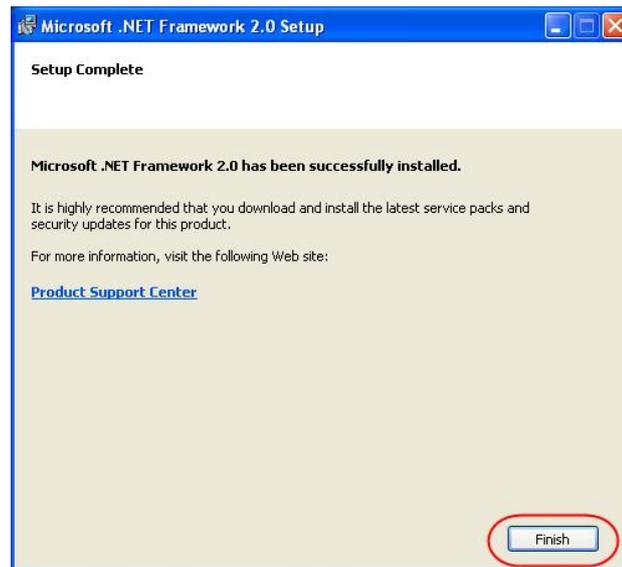
- The installer will start configuring the install



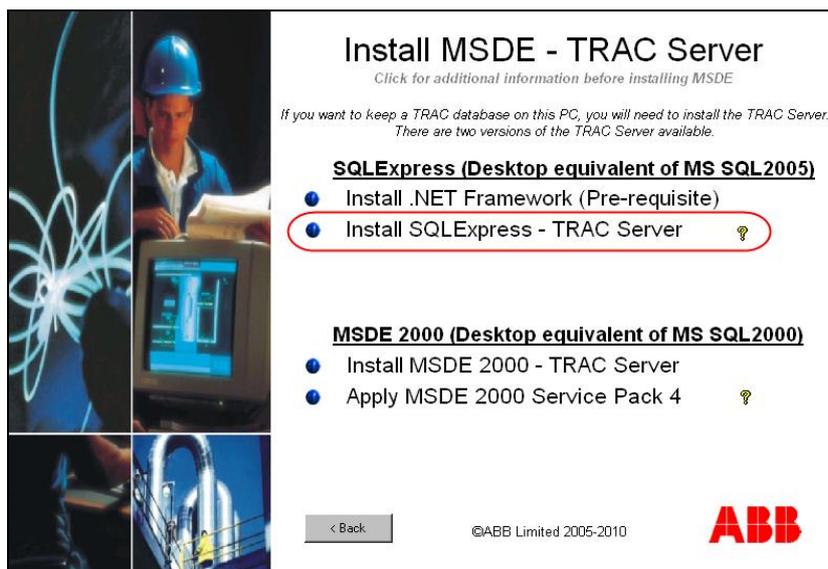
- And then start the installation process



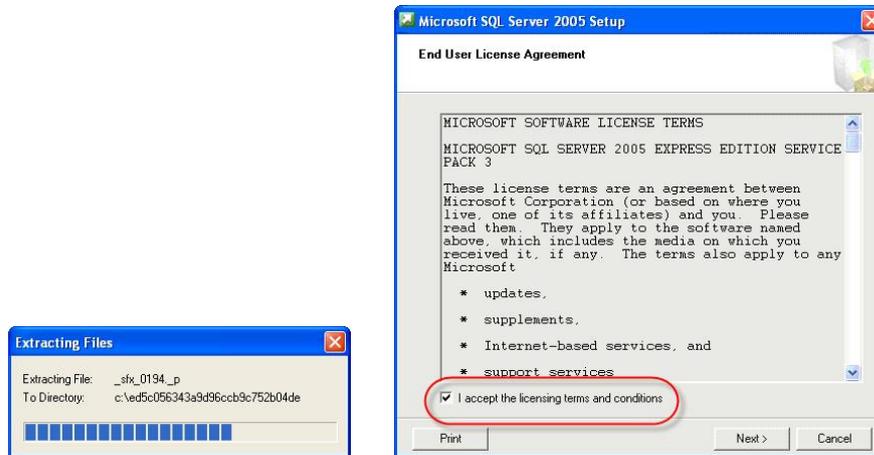
7. When the installation is complete, you will be notified. Click **Finish** to end the process



8. You are now ready to install **SQLExpress – TRAC Server** From the **Install MSDE – TRAC Server** menu, click on the **Install SQL Express – TRAC Server** option



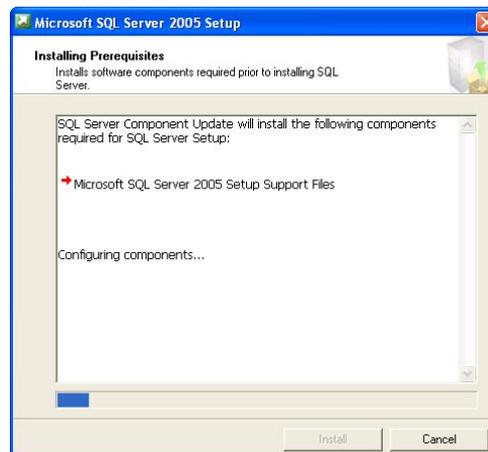
9. After all relevant files have been extracted to your PC, the SQLExpress installation will begin and the End User License Agreement page will be displayed. Please read the license agreement, and then select I accept the licensing terms and conditions check box. Click Next to continue to the next step



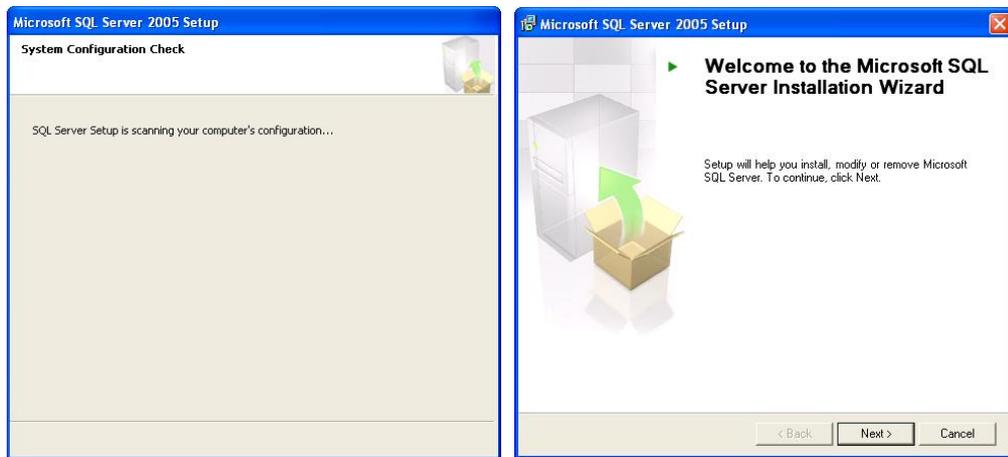
Note:

Throughout the installation process you can cancel the install at any time you like. A number of screens displayed have access to on-line help to assist you in any decisions you may need to take. When setting configuration options during the install, some screens will allow you to move back to a previous screen if you wish to make a change or review your settings

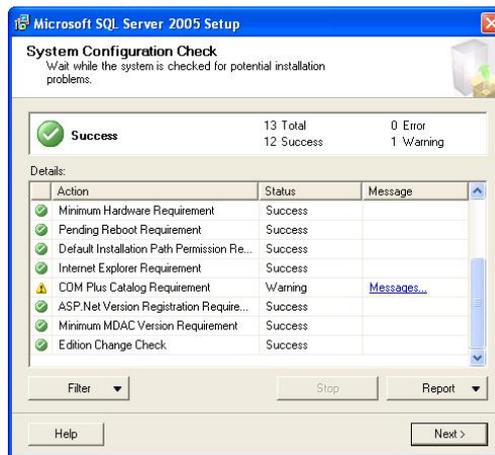
10. Before SQLExpress can be fully installed, there are a number of pre-requisites that need to be in place. When all the necessary pre-requisites have been installed the Next button will be enabled Click this button to continue



- The installer will then scan your computers configuration before showing the Welcome to the Microsoft SQL Server Installation Wizard page appears. Click Next to continue



- On the System Configuration Check page, the computer is scanned for potential installation problems. If there are any problems you can review the messages prior to continuing the install. To proceed with setup after the scan completes click Next.

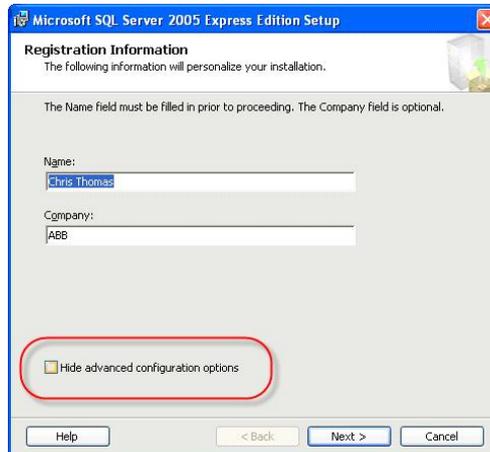


Note:

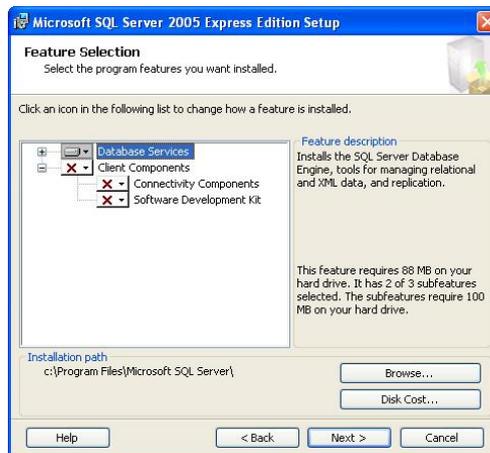
If any element of the configuration check is flagged as a warning, the installation of SQLEXPRESS can still be completed. Warnings are provided to assist you with any problems that may arise during the installation process and will not halt the installation process altogether

The installation process will now request additional information that you will be required to enter

13. If the Registration Information page is displayed, enter information in the Name and Company text boxes. Ensure the Hide advanced configuration options checkbox is unticked. Click Next to continue.



14. If the Feature Selection page is displayed, select the program features to install and click Next to continue. NB the Database Services feature needs to be installed as a minimum



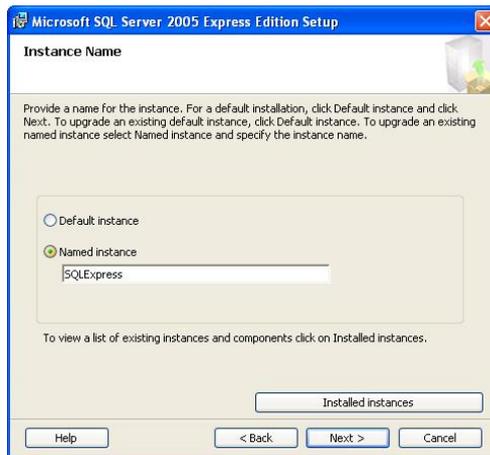
Note:

There is no Custom Feature Selection page in SQL Server Express Setup. Instead, the *Feature Selection* page lets you select the features that you want to be installed. Expand a feature to view its sub-features by clicking the "+" symbol.

15. If the Instance Name page is displayed, select either Default instance or Named instance for your installation.

- If you select **Default instance**, and you do not have an existing installation of Microsoft SQL Server (known as an Instance) on your machine, then a new default instance of SQL Server will be installed.
The name of this default server will be **<Computer Name>**
- If you select **Default instance**, and you already have an existing installation of Microsoft SQL Server (known as an Instance) on your machine, then this instance will be upgraded.
The name of this default server will be **<Computer Name>**
- If you select **Named Instance**, you will be required to provide an instance name
The name of this server instance will be **<Computer Name>\<Instance Name>**

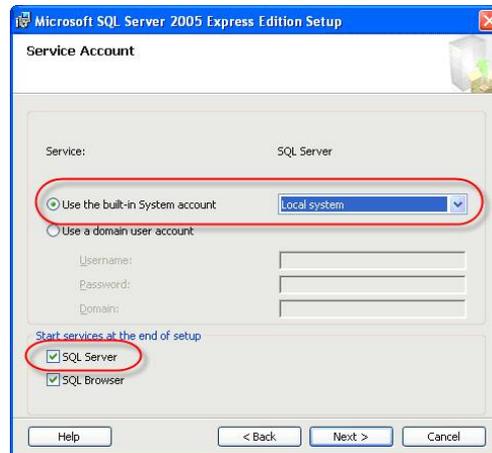
Click **Next** to continue.



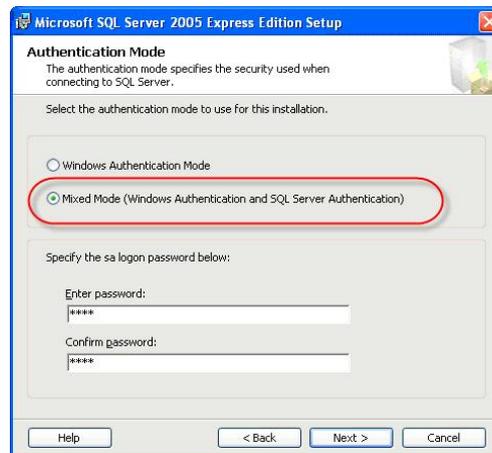
Note:

If the **Installed Instances** button is visible, it can be used to view a list of installed SQL Server instances and components on the computer where SQL Server Express Setup is running. The installed instance details pane will display details for installed instances.

16. If the Service Account page is displayed, ensure the Use the built-in System account radio button is selected and Local system is selected in the adjacent drop down list. Also ensure the SQL Server check box is checked in the Start services at end of setup section. Click Next to continue



17. If the Authentication Mode page is displayed, ensure the Mixed Mode radio button is selected. You will be required to enter and confirm a password for the sa logon (sa is the System Administrator account which has total control over the instance of SQLExpress) Click Next to continue.



Note:

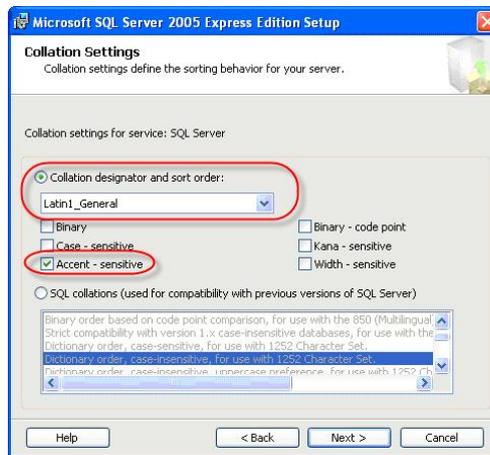
Microsoft specifies a strong password to have the following qualities

1. Strong passwords should not use prohibited conditions or terms, including:
 - a. A blank or NULL condition
 - b. "Password"
 - c. "Admin"
 - d. "Administrator"
 - e. "sa"
 - f. "sysadmin"
2. A strong password should not use the following terms associated with the installation computer:
 - a. The name of the user currently logged onto the computer.

- b. The computer name.
- 3. A strong password should be at least six characters in length and satisfy at least three of the following four criteria:
 - a. It must contain uppercase letters.
 - b. It must contain lowercase letters.
 - c. It must contain numbers.
 - d. It must contain non-alphanumeric characters – e.g., #, %, or ^.

A suitable password would therefore be **SQLAdmin2005**

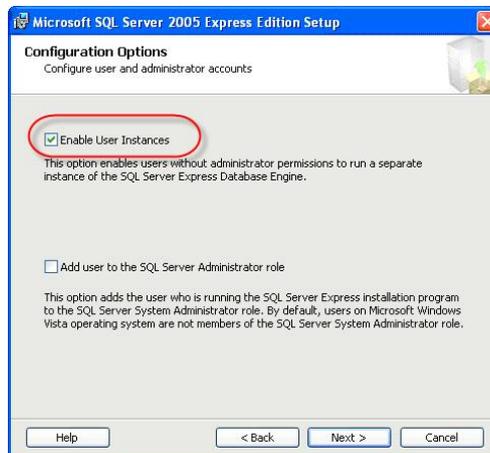
18. If the Collation Settings page is displayed, ensure the Collation designator and sort order is checked and the option Latin1_General is selected in the drop down box. Also ensure the Accent – sensitive check box is checked. Click Next to continue



Note:

If you need to match a collation of an existing SQL Server then you can use this screen to define what collation settings you require

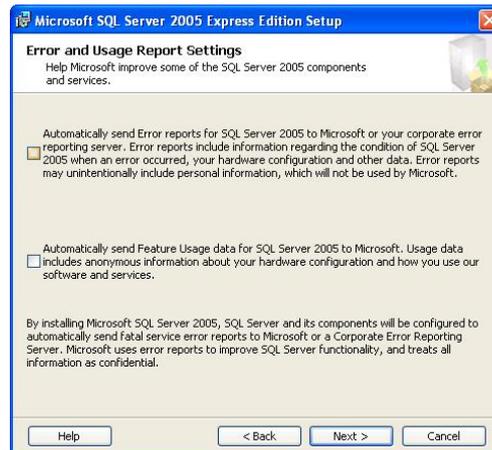
19. If the Configuration Options page is displayed ensure the Enable User Instances check box is checked. Click Next to continue



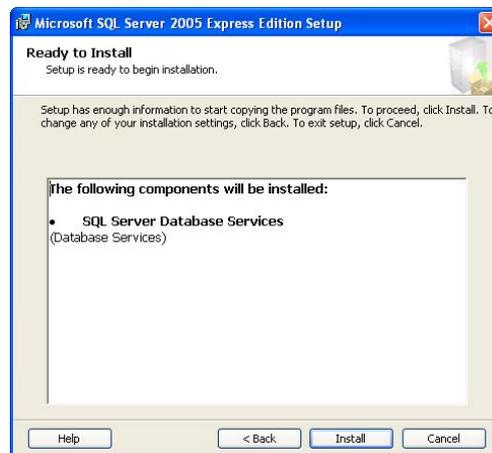
Note:

If you want to generate a separate instance of the Database Engine for non-administrator users then uncheck the **Enable User Instances** check box

20. If the Error and Usage Report Setting page is displayed, you can select whether to turn on error reporting and usage reporting for SQL Server and its components. Click Next to continue.



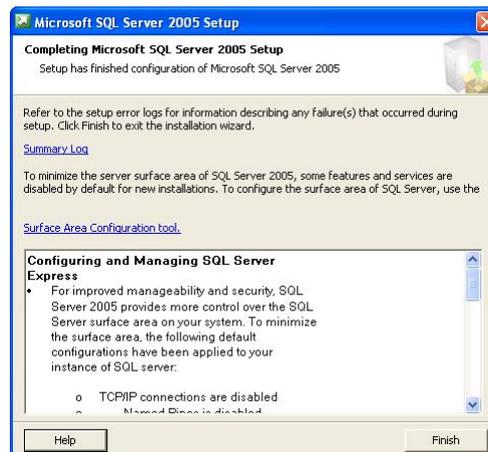
21. When all required information has been collected, the Ready to Install page will appear. Click Install to finish installing SQL Server.



22. On the Setup Progress page, you can monitor installation progress as setup proceeds. When this has completed, the Next button will be enabled. Click this button to continue

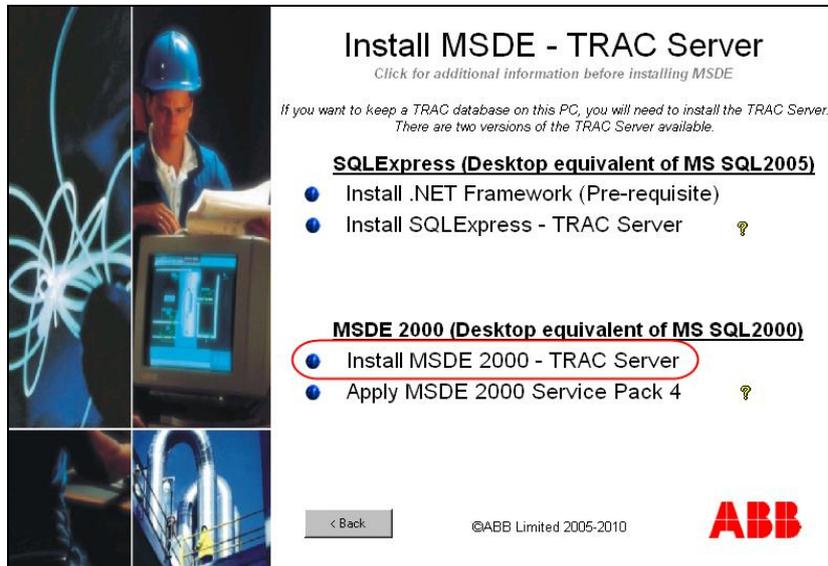


23. On the Completing Microsoft SQL Server 2005 Setup page, you can view the setup summary log by clicking the link provided on this page. To complete the SQL Server Installation Wizard, click Finish



6.2 Installing TRAC Server (MSDE2000)

1. From the **Install MSDE – TRAC Server** screen, click **Install MSDE 2000 – TRAC Server**



2. Once the installation program has been launched, the following window appears. The installation takes several minutes. **Please be patient and wait for the final message** in the command window **'Please press any key, then close this window'**. This message confirms that MSDE has installed successfully.

```
C:\WINNT\System32\cmd.exe
-----
Installing MSDE <SQL Server 2000 A>
-----
This may take several minutes. During this time it may appear that
nothing is happening, but please be patient and wait until a
completion message appears in this window.

Starting installation.

MSDE installation and upgrade is complete.

*****
NB! The database sa password is Admin. Please note this down.
*****

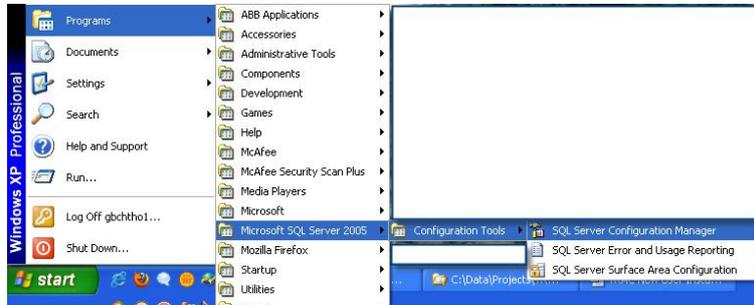
Please press any key, then close this window <if it does not
close automatically>.
```

The installation process will set up a password for the **sa** (System Administrator) account. The password is **admin**. Please remember this password as it will be required when you create your first TRAC database

7. Starting the TRAC Server

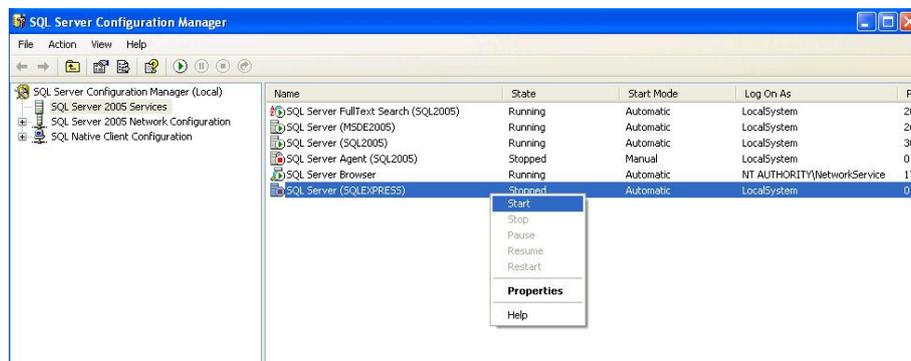
7.1 Starting TRAC Server (SQLExpress)

1. Using the Windows **Start** button, launch the **SQL Server Configuration Manager**



If you cannot locate this option through your start menu, then you need to look for the file **SQLServerManager.msc** (normally located in your Windows System32 folder). Double click on the file to launch the Configuration Manager

2. The **SQL Server Configuration Manager** allows you to configure SQL Server services and configure network connectivity. In the left hand pane of the manager window, select the option **SQL Server 2005 Services**. The right hand pane of the window will then update itself, showing all SQL Server installations on your computer. Right mouse click on the required server in this window. From the pop-up menu that is displayed, you can select the option to **Start** the server



7.2 Starting TRAC Server (MSDE2000)

To determine if the TRAC Server (MSDE2000) is running, look for the Server icon in the Windows Taskbar Tray (right hand section of the Taskbar)



1. Double click on the icon to launch the SQL Server Manager

If this icon cannot be found in the Taskbar Tray, then locate and launch (double click) the following file

Installation	Location\Filename
MSDE2000	C:\Program Files\Microsoft SQL Server\80\Tools\Binn\sqlmangr.exe

If you cannot locate any of the Location\Filenames specified above, then use Windows Explorer to search for a file named **sqlmangr.exe**. When found, launch it.

2. When the SQL Server Service Manager appears, select the required **Server** from the list and ensure the **Service** is set as **SQL Server**. If the **Start/Continue** button is enabled, click it to start the Server running.
If you ensure the **Auto-start service when OS starts** checkbox is ticked, then the Server will automatically start whenever you start your PC



When the server is running you can then close the SQL Server Service Manager window

8. Licensing TRAC

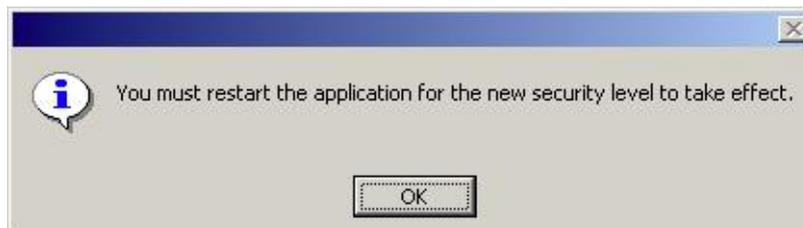
TRAC is a licensed software product. Your TRAC installation will need to be registered with ABB.

1. Launch the TRAC software from the **Start Menu** for the first time by selecting **Programs\ABB Eutech\TRAC<version>**

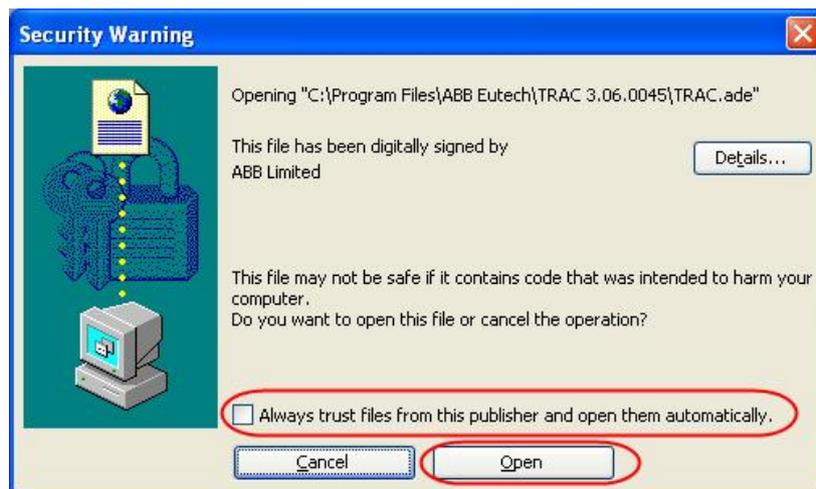
The following dialogues will appear on the first time that TRAC is launched only. Please click **Yes**



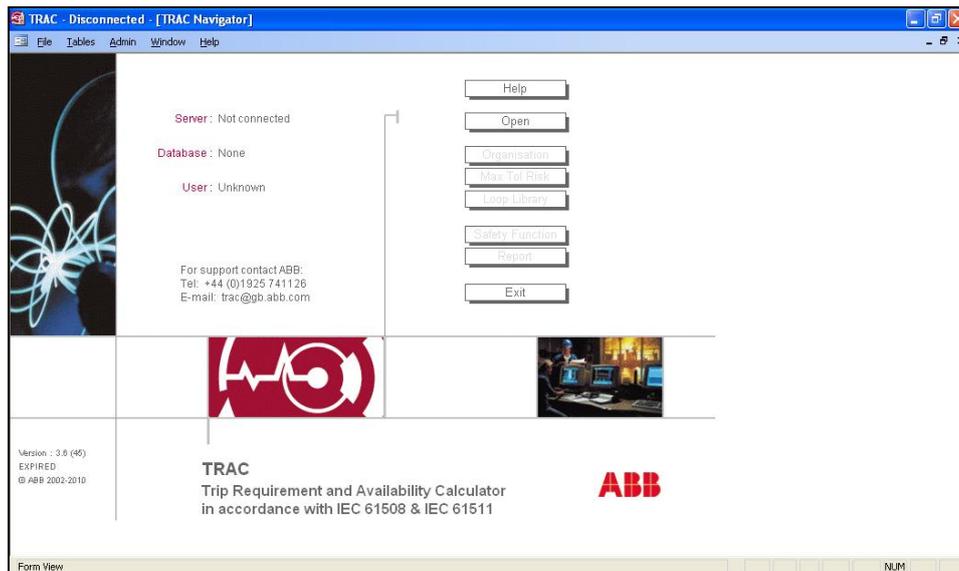
You will be requested to restart TRAC in order for these new settings to take effect. Click **OK** to close down TRAC



When you re-launch TRAC, the following dialogue will appear. Ensure the **Always trust files from this publisher and open them automatically** is ticked and click the **Open** button



The TRAC Navigator form will then appear



2. From this Navigator, select the Menu option to open the Licence form (Help ► License)



3. The Software License Registration form should now appear.



4. Please E-mail ABB using the button on the licensing form. This will send a message to the TRAC Help Desk (using your e-mail software) giving details of your serial number.

ABB Software License Registration

Application Name: ABB_TRAC
Serial Number: 14677005
License Status: EXPIRED
Level: 0
Remaining:
Unlock Type: FULL
Unlock Code:

Instructions

- 1 ABB for an unlock code,
or
Ring ABB (01642) 372322
Give person Application Name and Serial Number
- 2 Select the unlock type and enter the unlock code you are given by return e-mail or phone
- 3 Store License

ABB

5. An Unlock code will then be sent to you by e-mail. When you receive the Unlock code, select the type of license from the Unlock Type box, in this case EVALUATION (or FULL)

ABB Software License Registration

Application Name: ABB_TRAC
Serial Number: 14677005
License Status: EXPIRED
Level: 0
Remaining:
Unlock Type: FULL
Unlock Code:

Instructions

- 1 ABB for an unlock code,
or
Ring ABB (01642) 372322
Give person Application Name and Serial Number
- 2 Select the unlock type and enter the unlock code you are given by return e-mail or phone
- 3 Store License

ABB

6. Type in the Unlock code and Click 'Store'

ABB Software License Registration

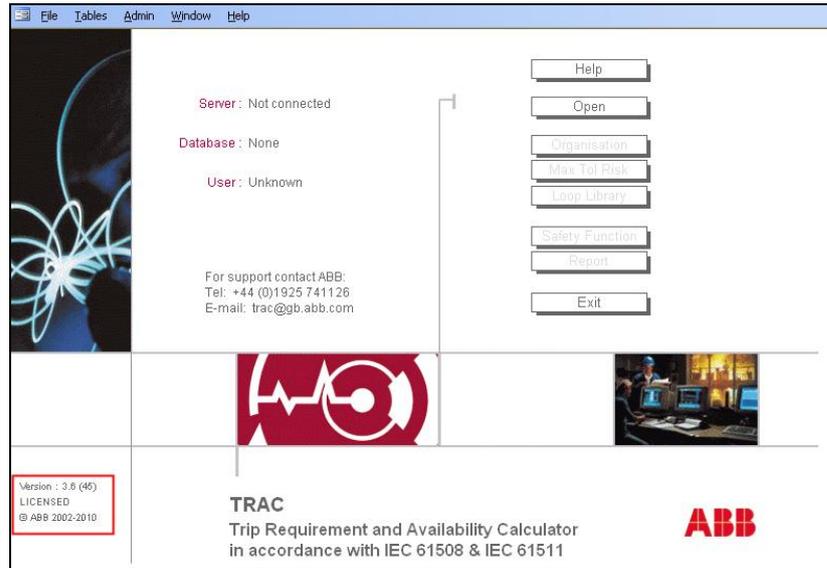
Application Name: ABB_TRAC
Serial Number: 14677005
License Status: EXPIRED
Level: 0
Remaining:
Unlock Type: FULL
Unlock Code:

Instructions

- 1 ABB for an unlock code,
or
Ring ABB (01642) 372322
Give person Application Name and Serial Number
- 2 Select the unlock type and enter the unlock code you are given by return e-mail or phone
- 3 Store License

ABB

If the unlock code is successful you will be returned to the TRAC Navigator screen which will be updated to show that the product is licensed



9. Creating your first TRAC database

When you have licensed TRAC, you can now create a new database.

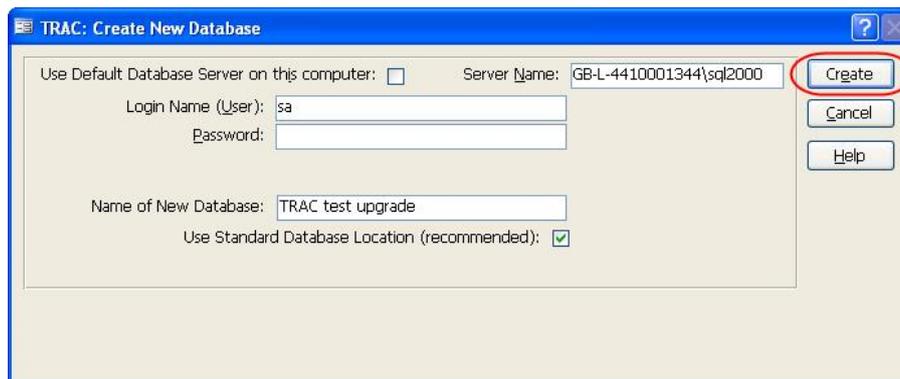
1. From the TRAC Navigator, select the menu option File ► Database ► New



2. This will launch the Create New Database form. Please enter the required details and click the **Create** button. The Login Name will be **sa** and the password will be dependant on what version of the TRAC server you installed.

If you installed MSDE2000 then the password will be **admin**

If you installed SQLExpress then the password will be the one you specified during the SQLExpress installation process



3. The following dialogue box will then appear. Select the required database type and click 'OK'



Note your TRAC license type will determine which database(s) you are able to create

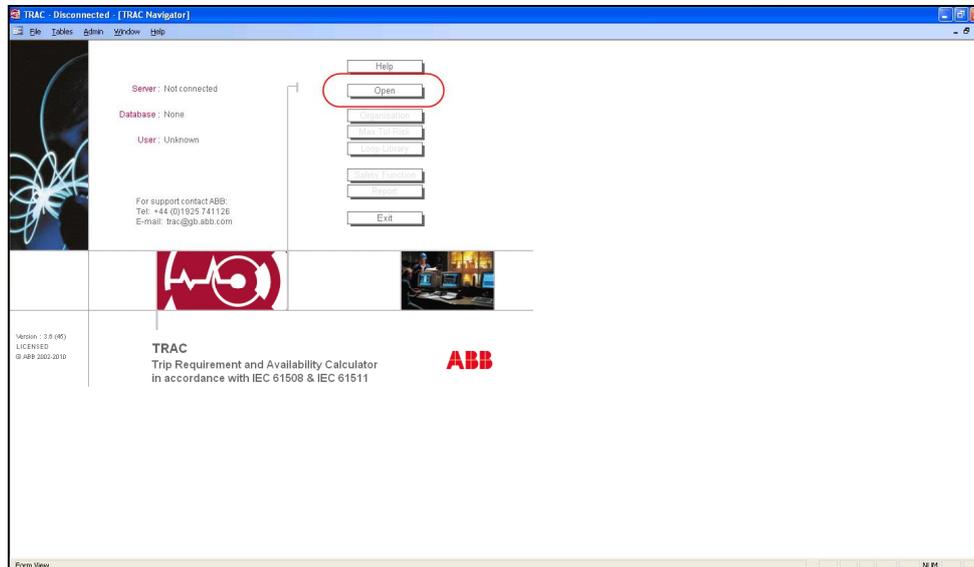
4. TRAC now confirms that the login names have been created. Make a note of the new login names and password as these will be used to control access to your TRAC database. Click **'OK'**



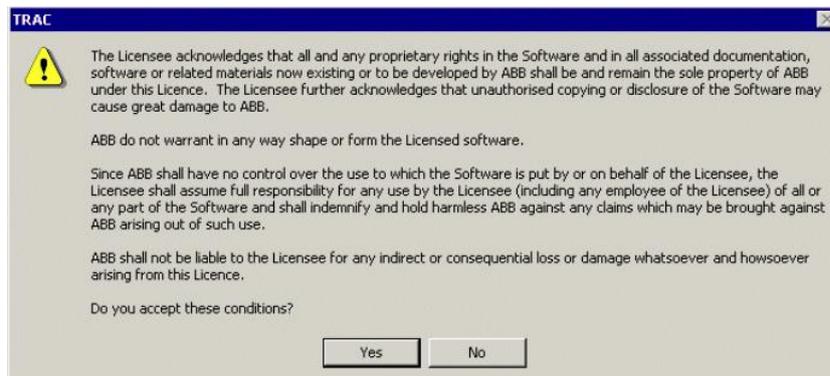
10. Opening a TRAC database

After you have created a TRAC database, you can then open it.

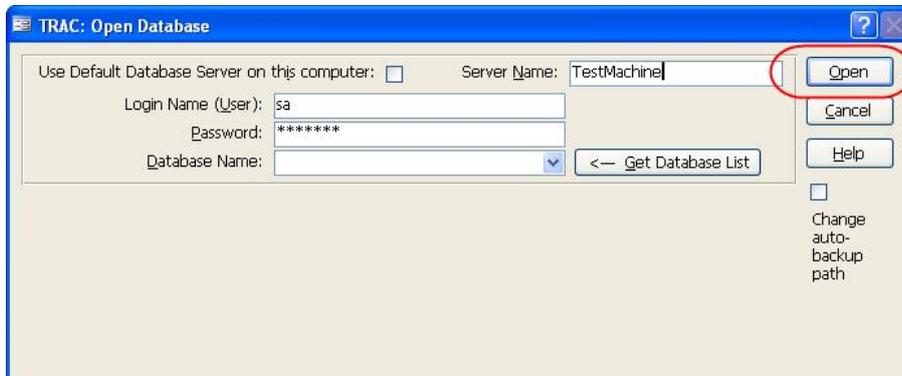
1. From the TRAC Navigator, select the menu option Open



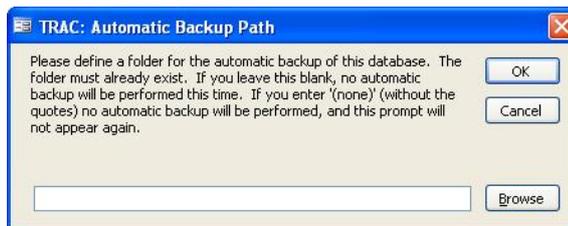
2. When you open your very first TRAC database, the following dialogue may appear. If you accept the license conditions, please click 'Yes'



- The Open Database dialog will be displayed. Enter the required details and click the **Open** button. The Login name could either be **sa**, or one of the Trac logins that were created when you first created a database. If the **Database Name** field on the form is empty, you can click on the **Get Database List** button which will fetch all the TRAC databases on the specified **Server Name**



On the first occasion that you open a new database, you are invited to set the automatic backup feature. Either browse to your chosen backup location, or enter **'(none)'** in the text field and click **'OK'** to disable this feature



If no location is specified and the **'(none)'** option is not defined, then this form will appear every time the database is opened

- TRAC will now return to the TRAC Navigator and will enable all additional menu options

