

1 System requirements (minimal)

Operating system	Windows 2000 SP4, Windows XP Professional SP2, Windows Vista
RAM	1 GB (Windows 2000 / Windows XP) 2 GB (Windows Vista)
Memory	Program: 500 MB Data: 2 GB (for about 5000 determinations)
Serial ports	for devices with RS232 interface
USB ports	for devices with USB interface

The windows user must have administrator rights in order to be able to install the **tiamo** software.

Additional requirements for the **tiamo server**:

Network	10 MBit/s, stable and permanent Communication via TCP/IP
Operating system	Windows 2000 SP4, Windows XP Professional SP2, Windows 2000 Server, Windows 2003 Server, Windows Vista



Caution

During a determination data loss may occur when the PC switches over to the standby mode. In the energy settings of the operating system the **standby mode** should therefore be **deactivated**.

2 Single workplace installation

With the single workplace version **tiamo light** or **tiamo full** the workplace and database will be installed on your computer.

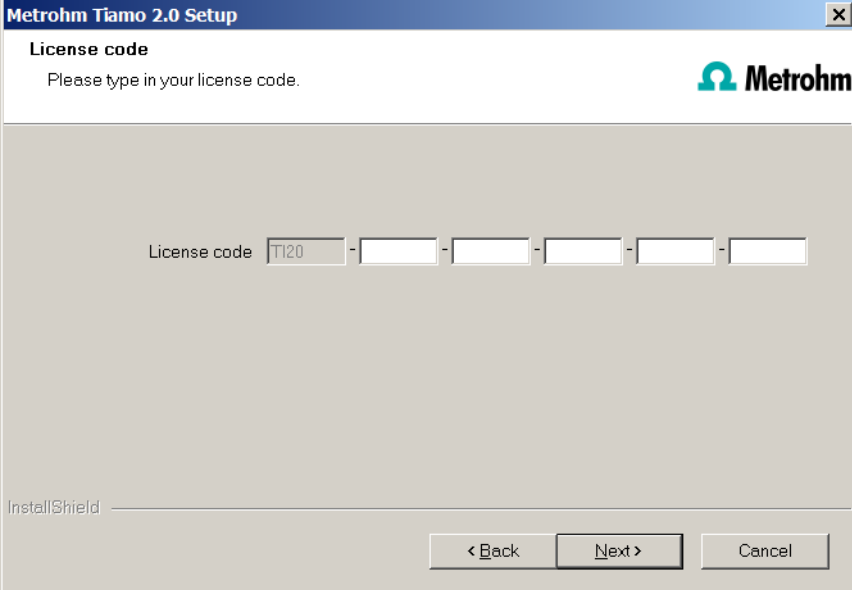
- 1 On inserting the CD into the drive of your computer the installation will be started automatically. If this option is deactivated on your computer, double click the file **setup.exe**.

If the minimum system requirements are not met (see above) a message appears. Click on **[Yes]** if you like to install the program nevertheless.

Afterwards, click on **[Next]**.

- 2 After having read the license agreement for **tiamo** and accepting it with **[Yes]** a window will appear where you can enter the license code.

- 3 Enter the license code for **tiamo light** or **tiamo full** and click on **[Next]**.

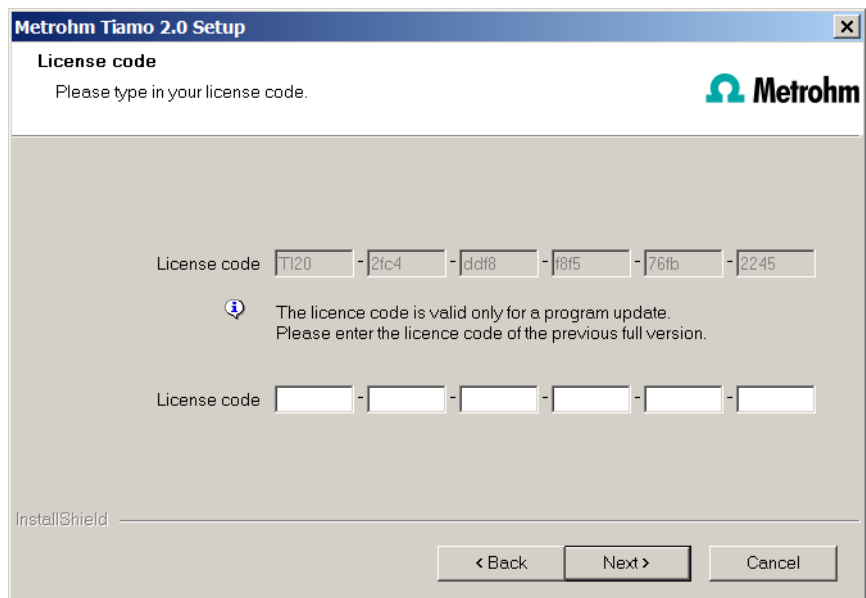


The screenshot shows a Windows-style dialog box titled "Metrohm Tiamo 2.0 Setup". The window has a blue title bar with a close button (X) on the right. Below the title bar, the text "License code" is displayed in bold, followed by the instruction "Please type in your license code." in a smaller font. The Metrohm logo is visible in the top right corner. The main area of the window is a light gray color and contains a license code input field. The input field is a single line with a text cursor, and the text "T120" is entered. To the right of the input field, there are five empty rectangular boxes, each preceded by a hyphen, indicating a multi-part license code format. At the bottom of the window, the text "InstallShield" is visible on the left. On the right, there are three buttons: "< Back", "Next >", and "Cancel".



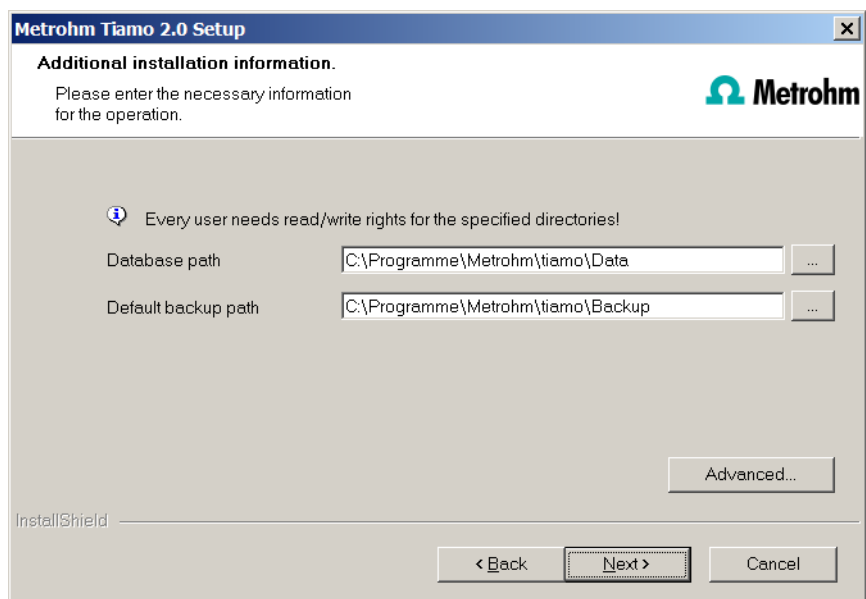
Note

If you have entered the license code of an update license, then the license code of the previous full version will additionally be requested.



4 Now enter the target folder for the **tiamo** installation and confirm with **[Next]**.

5 In the dialog window **Additional installation information** you can define the path for the database and backup files:

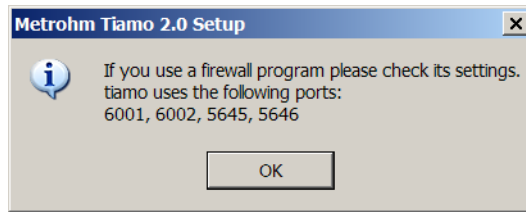


Note

The default paths differ in Windows Vista and Windows 2000 or Windows XP.

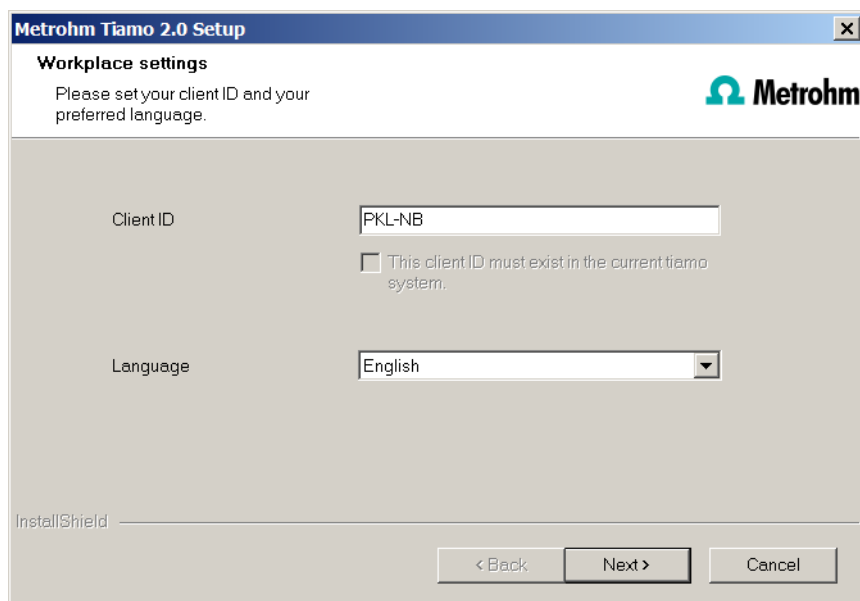
Under **[Advanced...]** it is possible to change the ports **tiamo** uses to communicate with the database and administration server. If the ports are used already, an appropriate error message will appear. Ask your system administrator for more information about this. Continue with **[Next]**.

- 6 Follow the instructions of the program until the following message appears:



This message points out which ports **tiamo** uses. Write down these ports and inform your system administrator in case **tiamo** is not able to connect to the database. Confirm the message with **[OK]**.

- 7 As soon as the copying procedure has been terminated you can set further workplace settings:



The option "**The client ID must exist in the current tiamo system.**" is only activatable if a database from a previous installation already exists on your computer or if you want to connect to a database server which has been installed on another computer.

If you activate this option **tiamo** checks whether the identifier you have entered exists in the database. If this is true the identifier and all associated settings will be adopted. With this option a renewed installation of a client is much easier.

Click on **[Next]**. If the database ports are not available, an appropriate error message will appear and the installation will be canceled. In this case, check your server and firewall settings before installing the program again.

- 8 At the end of the installation the file **info.txt** will be created which contains all relevant information concerning your current **tiamo** installation. Save this file on your hard disk in case of need in future and print it (add to IQ). Complete the installation with **[Finish]**.

An **InstallLog** file with a list of all files having been copied to your computer and with a confirmation for a successful installation is saved in the **tiamo** installation folder (default: C:\Program Files\Metrohm\tiamo) under bin \InstallLog.

3 Client/Server installation

With the **tiamo multi** version (multiple workplace version with 3 licenses) you can choose during the installation whether you want to install a **Client** (workplace) or the **Server** (incl. client) on your computer.

If you only want to install a client on your computer, in advance the server the client will be connected to must have been installed on another computer.

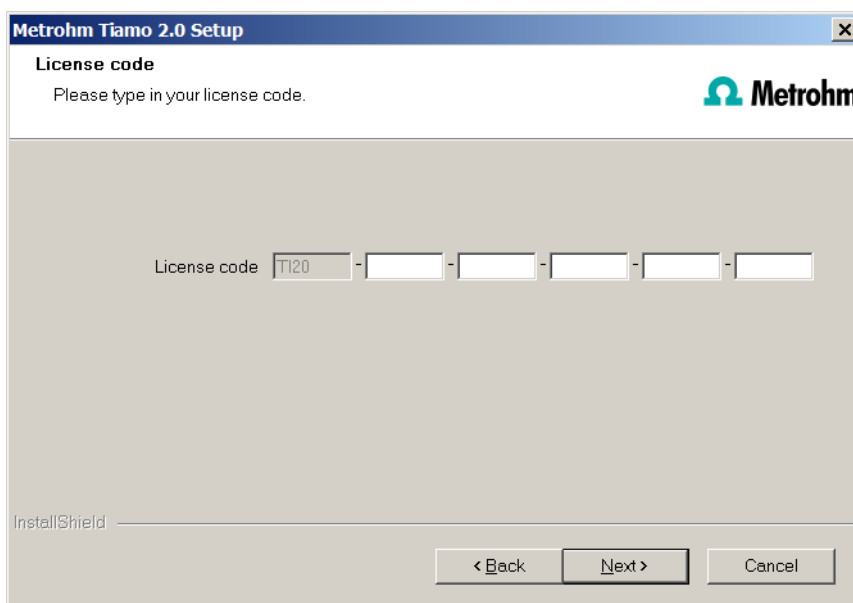
- 1 On inserting the CD into the drive of your computer the installation will be started automatically. If this option is deactivated on your computer, double click the file **setup.exe**.

If the minimum system requirements are not met (see above) a message appears. Click on **[Yes]** if you like to install the program nevertheless.

Afterwards, click on **[Next]**.

- 2 After having read the license agreement for **tiamo** and accepting it with **[Yes]** a window will appear where you can enter the license code.

- 3 Enter the license code for **tiamo multi** and click on **[Next]**.

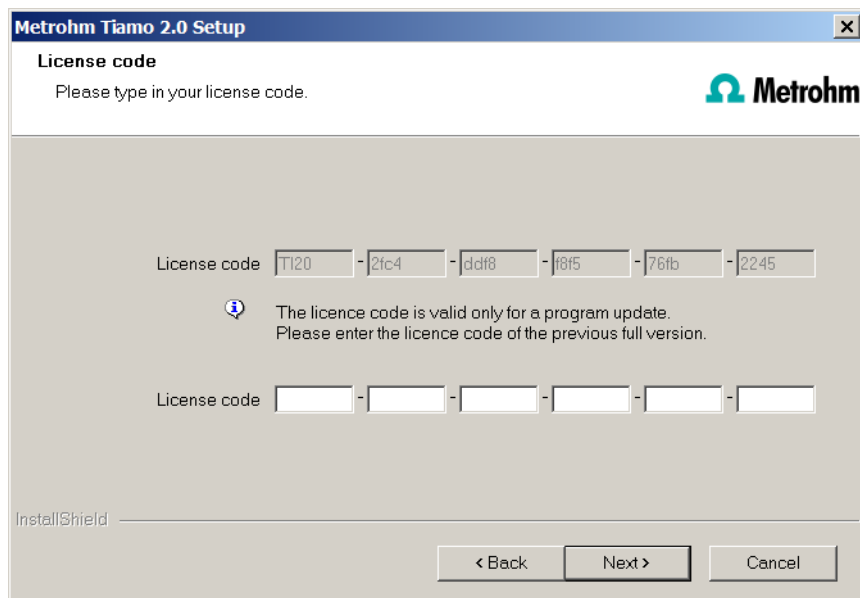


The screenshot shows a window titled "Metrohm Tiamo 2.0 Setup". The main heading is "License code" with the instruction "Please type in your license code." in the top right corner, there is the Metrohm logo. Below this, there is a label "License code" followed by a series of six input fields separated by hyphens. The first field contains the text "T120". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom left corner of the window.



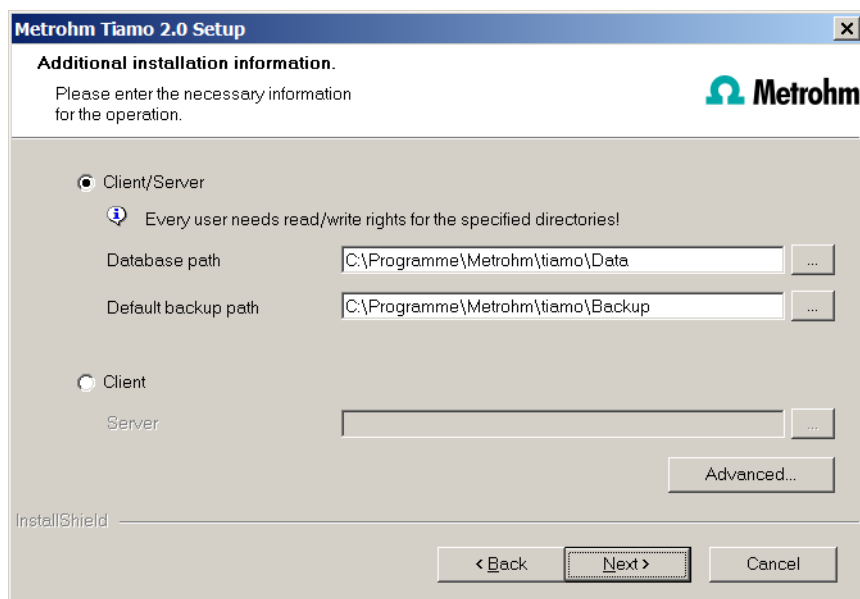
Note

If you have entered the license code of an update license, then the license code of the previous full version will additionally be requested.




4 Now enter the target folder for the **tiamo** installation and confirm with **[Next]**.

5 The dialog window **Additional installation information** appears where you can choose whether you want to install a **client** or the **server**:



The option **workplace** installs the client and the **database server** on your computer. Choose this option if your computer will be used as server.

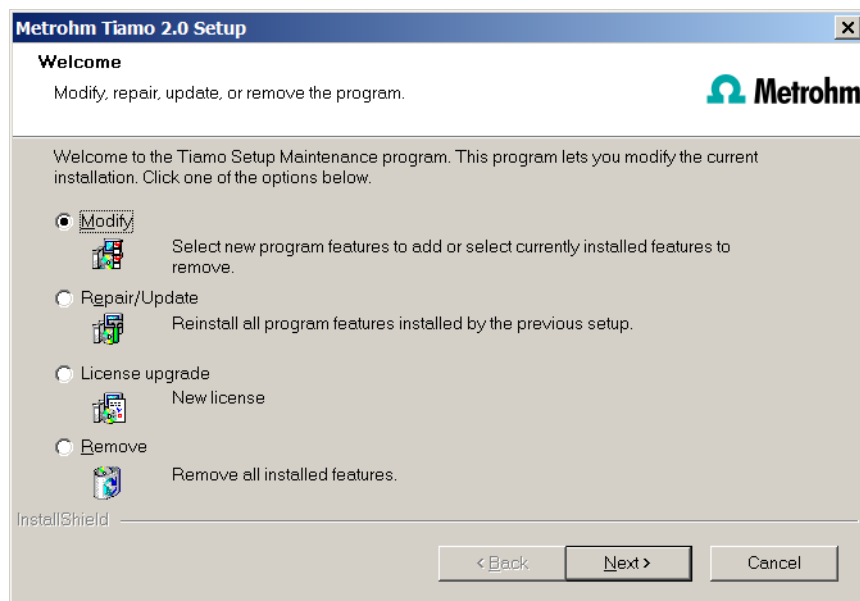
With **Client** only the **workplace** will be installed and with  you have to choose the database server (has to be installed in advance!) to which you want to connect. The network server name or the IP address are accepted.

Under **[Advanced...]** it is possible to change the ports **tiamo** uses to communicate with the database and administration server. If the ports are used already, an appropriate error message will appear. Ask your system administrator for more information about this. Continue with **[Next]**.

- 6 All further installation steps correspond to those of the single workplace installation on from **point 6**.

4 Modify / repair / remove installation and upgrade license

In order to carry out modifications on the current **tiamo** start the file **setup.exe** on the installation CD or click on **Metrohm tiamo** under **Control Panel ► Software**. Then select **Change/Remove**:



Modify

With this option you can change the path to the database and backup files and set the ports which **tiamo** uses for communication. With the **tiamo multi** version you can additionally change the path to the database server.

If the database path is changed, the existing databases are automatically copied to the new location.

Repairing/Updating the program

With this option you can **repair** an existing defective installation or **update** an older installation.

- **Repair installation**
In case of a defective **tiamo** installation because e.g. a DLL file is missing or a program file has been deleted by mistake **tiamo** can be repaired with this option.
- **Update installation**
In case an older version of **tiamo** is installed, it will be updated to the new version of **tiamo**, see *Program update with tiamo light/full* or *Program update with tiamo multi*.



Caution

During updating older tiamo versions to tiamo 2.x the databases will be converted to the new version. Depending on the size of the database, this can take some time. For each database a progress bar is displayed which informs about the status of the conversion.

The computer or Windows must not be restarted or shut down as long as the conversion runs!

License upgrade

A direct upgrade of your current installation to a **tiamo** version with additional features is possible:

- **tiamo light** to **tiamo full** or **tiamo multi**
- **tiamo full** to **tiamo multi**

In order to do this enter your new license code in the next dialog window.

Remove

This option removes your **tiamo** installation. Data which has been generated after the installation (e.g. database entries, log files, exported data etc.) will remain on your hard disk.

5 Program update with tiamo light/full

During the program update, the configuration database (system configuration, methods, templates) and the determination databases are automatically updated for further use with **tiamo light/full**.



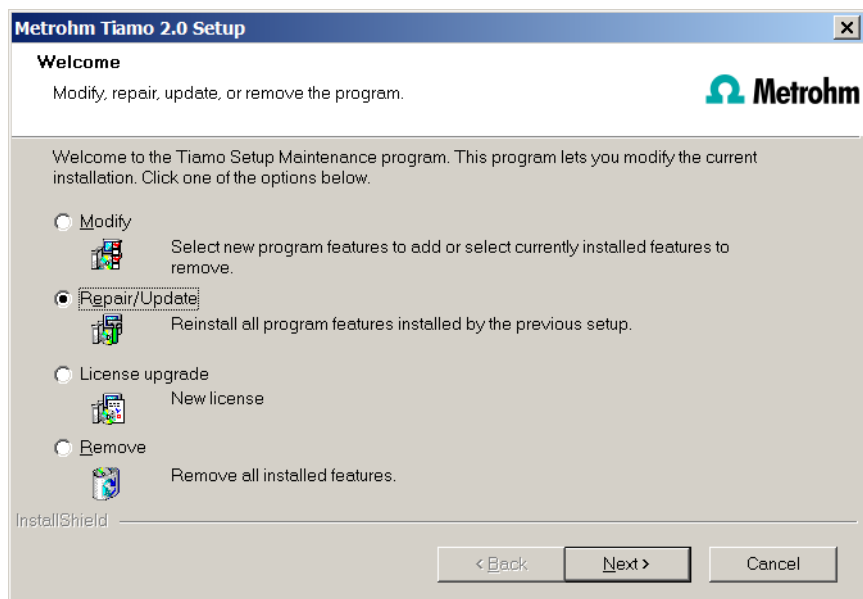
Note

The files in the database and backup directory will be retained when updating the program.

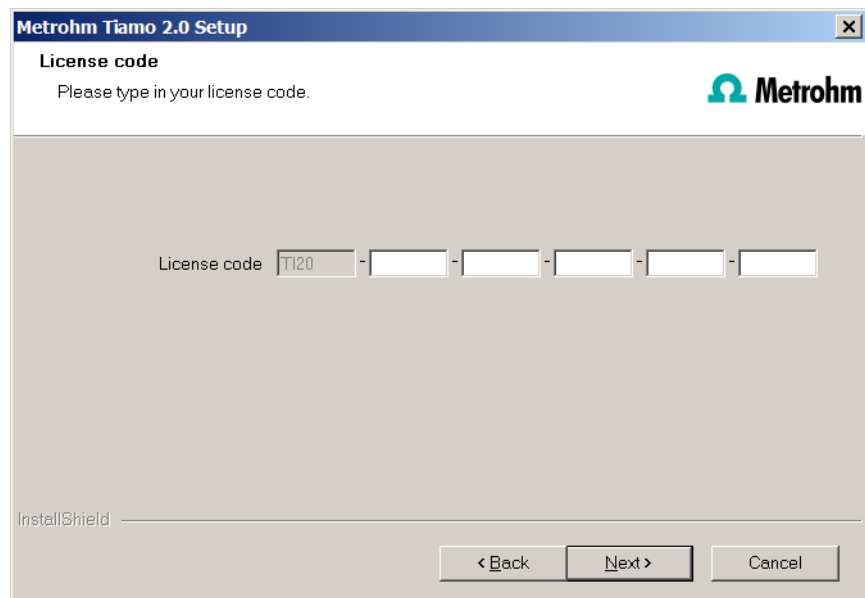
Files in the subdirectories **bin**, **jre**, **lib**, **res**, **doc** and **examples** will be overwritten by the update. The files in these directories not having been overwritten by the update will be deleted. The deleted files are listed in the **InstallLog**.

- 1 Save the configuration database into an external directory using the backup function of **tiamo**. For that, select the menu item **File ► Save ► Manually** in the program part **Configuration**. Select the **Backup directory**, enter a name for the backup file and click on **[Start]**. The backup is carried out automatically. It is recommended to copy the backup file to CD/DVD.

- 2 If desired, export the methods in addition to the automatic backup with the configuration database (see above) into an external directory. For that, select the menu item **File ► Method manager...** in the program part **Method**. Select the desired **Method group**, mark all methods to be exported and click on **[Edit] ► Export....** Select the desired export directory and click on **[OK]**. The methods are exported into the desired directory. It is recommended to copy the exported methods to CD/DVD.
- 3 Save all determination databases created by yourself into an external directory using the backup function of **tiamo**. For that, select the menu item **File ► Database manager...** in the program part **Database**. Select the desired database and click on **[Backup]**. Select the **Backup directory**, enter a name for the backup file and click on **[Start]**. The backup is carried out automatically. It is recommended to copy the backup file to CD/DVD.
- 4 Save further files created by yourself in the installation directory (e.g. export files) into an external directory or to CD/DVD.
- 5 Close **tiamo**. Insert the installation CD and double click the file **setup.exe**. Then select **Repair/Update** and click on **[Next]**.



- 6 Enter the update license code for **tiamo light** or **tiamo full** and click on **[Next]**.



7



Caution

During updating older tiamo versions to tiamo 2.x the databases will be converted to the new version. Depending on the size of the database, this can take some time. For each database a progress bar is displayed which informs about the status of the conversion.

The computer or Windows must not be restarted or shut down as long as the conversion runs!

Complete the installation with **[Finish]**.

An **UpdateLog** file with a list of all files having been copied to your computer and with a confirmation for a successful installation is saved in the **tiamo** installation folder (default: C:\Program Files\Metrohm\tiamo) under bin\InstallLog.

6 Program update with tiamo multi

During the program update, the configuration database (system configuration, methods, templates, user-specific data for all clients) and the determination databases on the server are automatically updated for further use with **tiamo multi**.



Note

The files in the database and backup directory will be retained when updating the program.

Files in the subdirectories **bin**, **jre**, **lib**, **res**, **doc** and **examples** will be overwritten by the update. The files in these directories not having been overwritten by the update will be deleted. The deleted files are listed in the **InstallLog**.

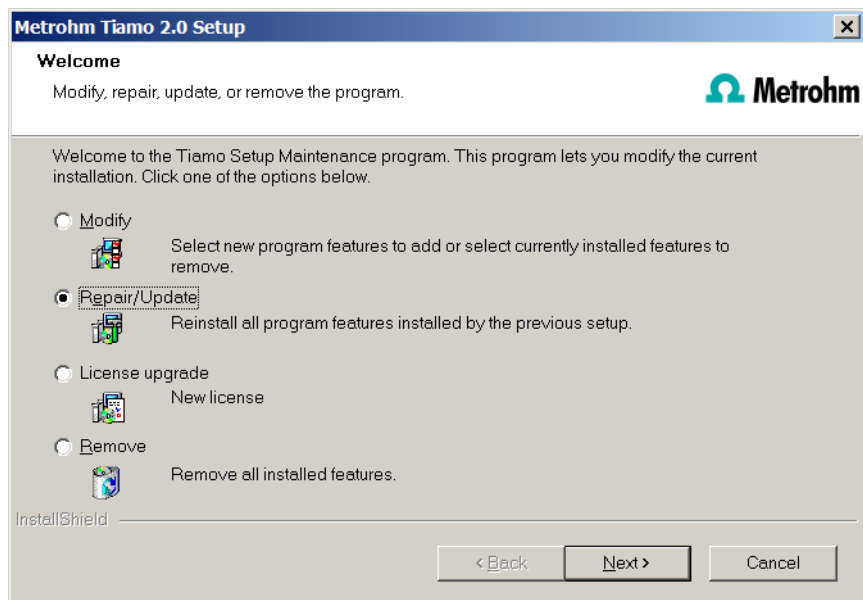
- 1 Make sure **tiamo multi** is closed on all clients.



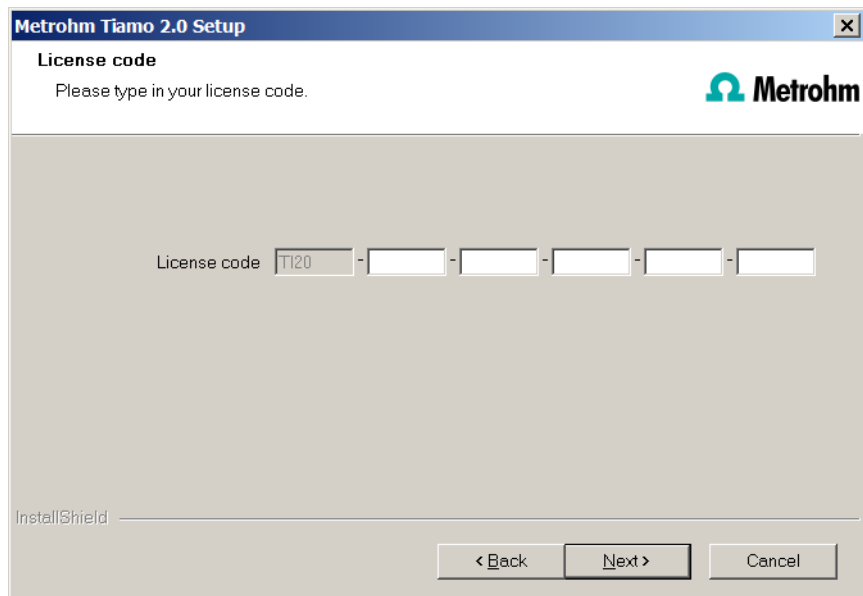
Note

In the subdirectory **bin** of the **tiamo** installation there is the application **Clients.exe** with which all clients and their status can be displayed.

- 2 Open **tiamo multi** on the server and save the configuration database into an external directory using the backup function of **tiamo**. For that, select the menu item **File ► Save ► Manually** in the program part **Configuration**. Select the **Backup directory**, enter a name for the backup file and click on **[Start]**. The backup is carried out automatically. It is recommended to copy the backup file to CD/DVD.
- 3 If desired, export the methods in addition to the automatic backup with the configuration database (see above) into an external directory. For that, select the menu item **File ► Method manager...** in the program part **Method**. Select the desired **Method group**, mark all methods to be exported and click on **[Edit] ► Export....** Select the desired export directory and click on **[OK]**. The methods are exported into the desired directory. It is recommended to copy the exported methods to CD/DVD.
- 4 Save all determination databases on the server into an external directory using the backup function of **tiamo**. For that, select the menu item **File ► Database manager...** in the program part **Database**. Select the desired database and click on **[Backup]**. Select the **Backup directory**, enter a name for the backup file and click on **[Start]**. The backup is carried out automatically. It is recommended to copy the backup file to CD/DVD.
- 5 Save further files in the installation directory (e.g. export files) into an external directory or to CD/DVD.
- 6 **Update server**
Close **tiamo multi** on the server and on all clients. Insert the installation CD on the **server** and double click the file **setup.exe**. Then select **Repair/Update** and click on **[Next]**.



7 Enter the update license code for **tiamo multi** and click on **[Next]**.



8



Note

The update of **tiamo multi** consists of the server license and three client licenses. If an existing installation contains additional licenses, these will be deleted.

Click on **[OK]** in the corresponding message in order to continue the installation.

9



Caution

During updating older tiamo versions to tiamo 2.x the databases will be converted to the new version. Depending on the size of the database, this can take some time. For each database a progress bar is displayed which informs about the status of the conversion.

The computer or Windows must not be restarted or shut down as long as the conversion runs!

Complete the installation with **[Finish]**.

An **UpdateLog** file with a list of all files having been copied to the server and with a confirmation for a successful installation is saved in the **tiamo** installation folder (default: C:\Program Files\Metrohm\tiamo) under bin\InstallLog.

- 10** In case additional licenses have been removed during the server update, or if further additional licenses are to be added, the **Administrator** can enter them in **tiamo** (dialog: **Configuration ▶ Tools ▶ Program administration ▶ Licenses ▶ Add licenses**).

11 Update clients

For each client, insert the installation CD and double click the file **setup.exe**. Then select **Repair/Update** and click on **[Next]**. Complete the installation with **[Finish]**.



Note

In order to facilitate updating many clients, the installation can be copied from the CD to a writeable medium and the file **tiamo_init.ini** can be modified. There, user-defined parameters (license code, installation path, server name, ...) for the installation can be set in order one will only have to click through the installation.

An **UpdateLog** file with a list of all files having been copied to the client computer and with a confirmation for a successful installation is saved in the **tiamo** installation folder (default: C:\Program Files\Metrohm\tiamo) under bin\InstallLog.