



January 2015

## **iControl LabMax 5.3**

### Installation Guide for Administrators

**METTLER TOLEDO**

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# 1 Introduction

iControl installation is wizard-driven. As soon as you start the process from the installation welcome page (Figure 1 on page 6), the wizard guides you through the steps to install iControl, starting with any prerequisite components.

In addition to the installation process, this guide also includes information on administering the software, activating licenses, and sharing data among multiple iControl/iC applications.

## 2 System Requirements

Below are the minimum system requirements for the computer where you install iControl. Please note that these are the **minimum** specifications to run the software. Computers with faster processors will provide a better user experience. For more information on computer recommendations for iC software, please see the iC Software Computer Specification Guide available on the **Documentation** tab at [www.mt.com/iC](http://www.mt.com/iC).

To verify the operating system and hardware configuration, right-click on Computer and review the General tab.

|                                    | Minimum Requirements  |   |
|------------------------------------|---|---|
|                                    | ONE iC/iControl Application   | MULTIPLE iC/iControl Applications                 |
| <b>CPU</b>                         | Intel Core 2 Duo 2.2 GHz or better                                      | Intel Core 2 Duo 2.8 GHz or better                |
| <b>Memory</b>                      | 2 GB  | 3 GB  |
| <b>Hard Drive</b>                  | SATA 5400 rpm   | SATA 7200 rpm                                     |
| <b>Graphics</b>                    | SXGA 1280 x 1024<br>with 3D hardware acceleration                       | SXGA 1280 x 1024<br>with 3D hardware acceleration |
| <b>Supported Operating Systems</b> | 32/64 bit versions of Microsoft® Windows® 8.1 and Microsoft® Windows® 7 |   |

Additional software requirements include Microsoft® Internet Explorer® 8.0 Web browser, Microsoft® Office® 2007, 2010, or 2013, and the latest version of Adobe® Reader® or other PDF reader.

### 3 Installing iControl LabMax 5.3

Review the following information prior to installing iControl LabMax 5.3:

#### 3.1 Necessary User Rights

**NOTE:** You need **Administrator privileges** on the PC in order to successfully install the software.

To run iControl, normal user privileges are sufficient.

#### 3.2 Updating iControl LabMax 4.0/5.0 with iControl LabMax 5.3

iControl LabMax 5.3 can be installed on the same PC as iControl LabMax 4.0/5.0, although it is not recommended to run both applications at the same time.

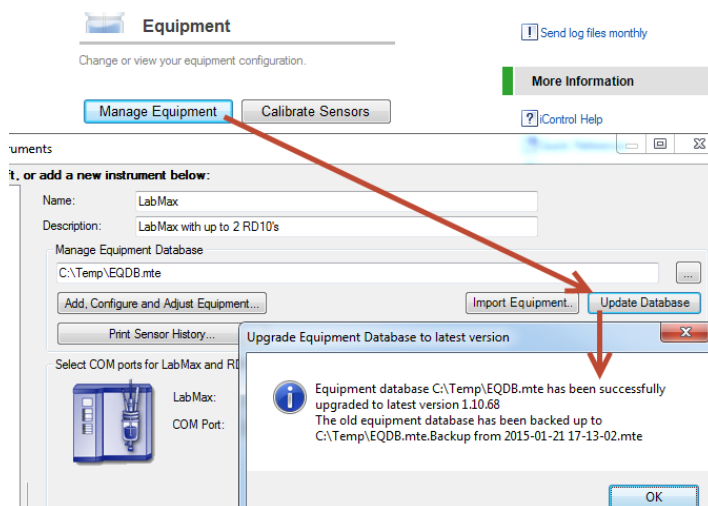
When installing iControl LabMax 5.3 the first time, the following data is copied from the previous iControl LabMax 4.0/5.0 installation:

- Equipment database including all device settings such as device names and COM ports  
Note that custom insert types will not get migrated.
- The last used lab equipment including defined reactor, stirrer, cover, inserts and safety limits  
Chemical Database
- Sensors ( UCB, RD10) including adjustment data
- Any defined links to other iC applications

After iControl LabMax 5.3 is installed, you are immediately ready to go with the same defined environment as you had in iControl LabMax 4.0/5.0. Experiments from version 4.0/5.0 can be opened without any data conversion.

If you still want to work with iControl LabMax 4.0/5.0 AFTER the installation of iControl LabMax 5.3, you need to upgrade the Equipment database as follows:

- Go to the Start Page of iControl LabMax 4.0/5.0 and click on "Manage Equipment"
- Then click on "Update Database"



**NOTE:** Before starting the iControl LabMax 5.3 installation, please logout or reboot to close all active iControl LabMax 4.0/5.0 processes. Then proceed to the next section to begin the installation process.

Information about uninstalling iControl LabMax 5.3 can be found on page 26.

### 3.3 Migrating from WinRC 7.x to iControl LabMax 5.3

iControl LabMax 5.3 can be installed on the same PC as WinRC 7.x, although it is not recommended to run both applications at the same time.

iControl LabMax 5.3 does not automatically migrate and apply any configuration data from WinRC 7.x but the Equipment Database file (\*.mte) may be used in iControl as a starting point to define the equipment.

If you want to convert existing WinRC 7.11, 7.12, 7.5, 7.6 experiments to iControl LabMax 5.3, then you can use the iControl Data Conversion Utility which is available as a separate installer on the iControl LabMax 5.3 DVD-ROM in the folder "Data Conversion Utility" or more conveniently from the AutoPlay application which should start when you insert the iControl LabMax 5.3 DVD-ROM.

**NOTE:** Before starting the iControl LabMax 5.3 installation, please logout or reboot to close all active WinRC 7.x processes. Then proceed to the next section to begin the installation process.

### 3.4 Starting iControl LabMax 5.3 Installation

**NOTE:** It is recommended that you close all open programs prior to starting the installation.

When you insert your iControl LabMax 5.3 DVD-ROM into the PC's DVD drive, the AutoPlay application should start automatically. From the installation welcome window, you can click the **Install iControl LabMax™ 5.3** button to start the installation.

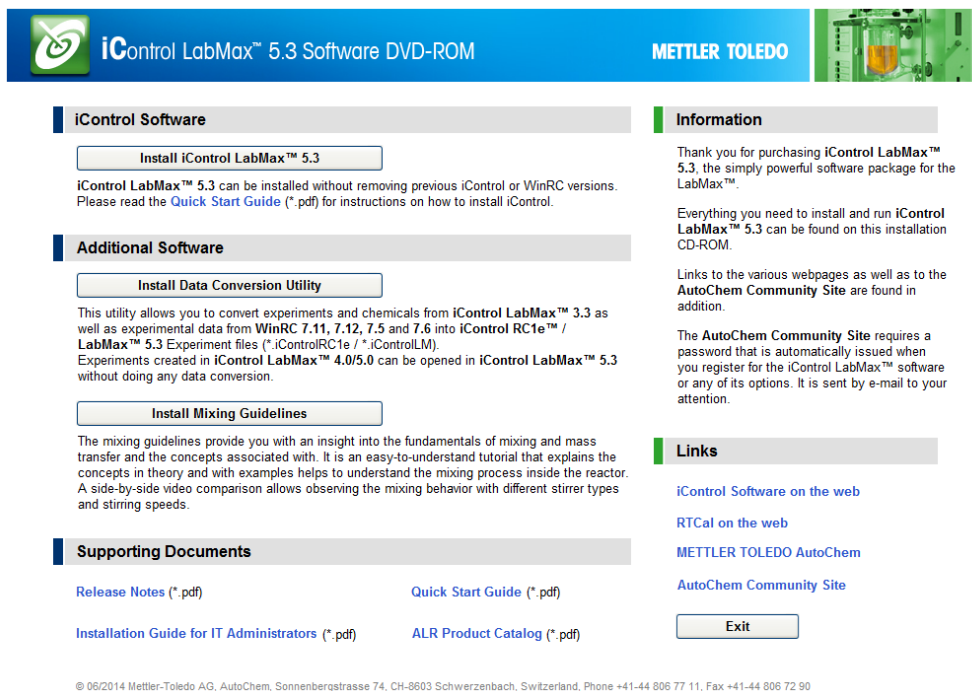


Figure 1 Installation welcome dialog box

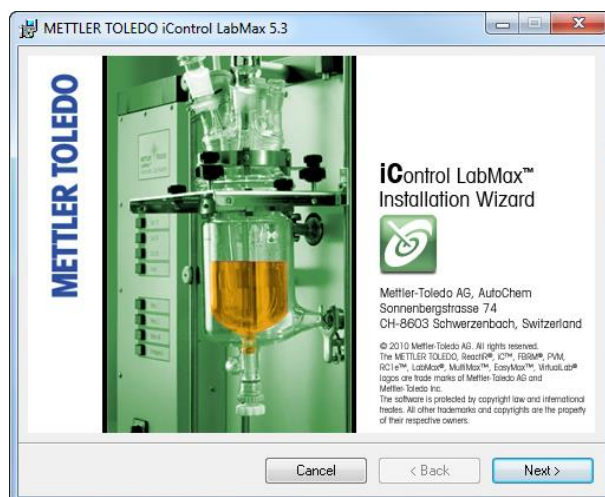
If the AutoPlay function does not start automatically, then you can also run the **autorun.exe** or **setup.exe** directly from the iControl LabMax 5.3 DVD-ROM root directory.

The iControl Installation wizard will automatically walk you through installation of any needed pre-requisites, like .Net Framework 4.5 and SQL Server Compact Edition. The following chapters describe the installation process in detail.

**Notice about prerequisite installations:**

Some of these prerequisite installations may ask you to reboot the computer. Please do as requested and reboot. After you have logged in again, you may need to restart the iControl LabMax 5.3 installer by double-clicking setup.exe on the installation DVD-ROM root directory. The installer will then continue to the iControl installation.

After successful installation of all of the prerequisite installers, the iControl LabMax 5.3 main application installer appears:



Select **Next** and move through the wizard steps to install iControl LabMax 5.3.

### 3.5 Installed Application Shortcuts

The iControl LabMax 5.3 installer installed the following shortcuts under your Start menu **Start > All Programs > METTLER TOLEDO > iControl LabMax 5.3**:

| Shortcut                                 | Description  |
|--|--|
| iControl LabMax 5.3                      | Main Application. Click this shortcut to start iControl LabMax 5.3   |
| Release Notes                            | PDF document which describes the known issues with iControl LabMax 5.3. It is recommended to read this to understand the currently known limitations                         |
| Send iControl Logs To Customer Care      | This is a utility that gathers the necessary information to provide to METTLER TOLEDO Customer Care in case of a support issue   |
| Temperature Control PI Estimator Utility | For advanced users: This Excel spreadsheet is used to fine tune the PI control parameters for your thermostat. Details are described in the iControl LabMax 5.3 online help. |
| Service Features                         | This is designed for the METTLER TOLEDO Field Service Engineer (FSE)   |

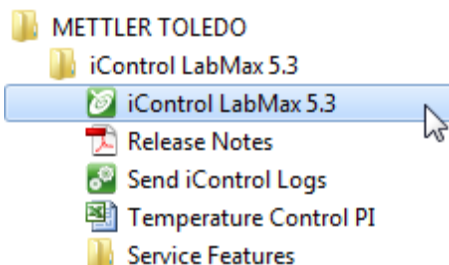
The iControl LabMax 5.3 installer also installs a shortcut on your desktop to start the iControl LabMax 5.3 application.

### 3.6 Starting iControl Software

1. Start the iControl software application by double-clicking the desktop icon or selecting iControl LabMax 5.3 from the METTLER TOLEDO program group in the Start menu.

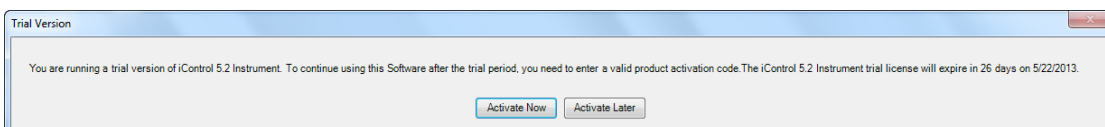


or



2. The following message indicates the software is running on a trial license:

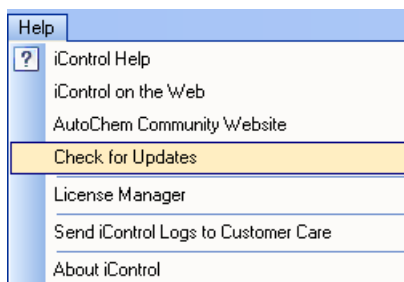
**NOTE:** If the iCare Software Maintenance subscription or Site License is current on this PC, the system will automatically be licensed and the user will not be prompted to activate the software.



- If you have a License Key, click **Activate Now** to proceed with the registration process. Instructions begin under **6 iControl/iC Licensing** on page 12.
- If you prefer to remain on the 30-day trial license, click **Activate Later**.

**NOTE:** The 30-day trial provides access to all iControl LabMax 5.3 features.

### 3.8 Checking for Updates

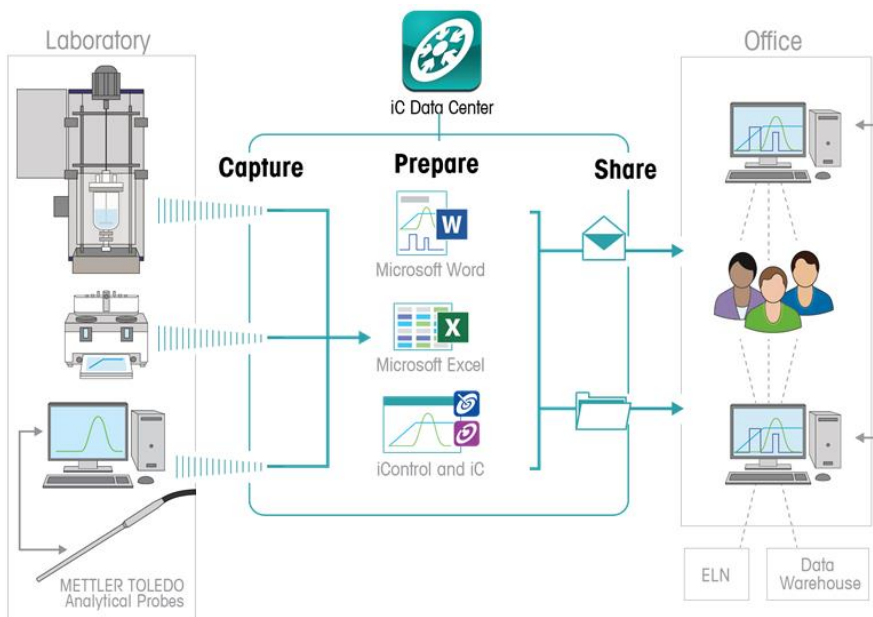


If you already have iControl LabMax 5.3 installed and would like to see if you have the latest version or release, select **Check for Updates** from **Help** menu.



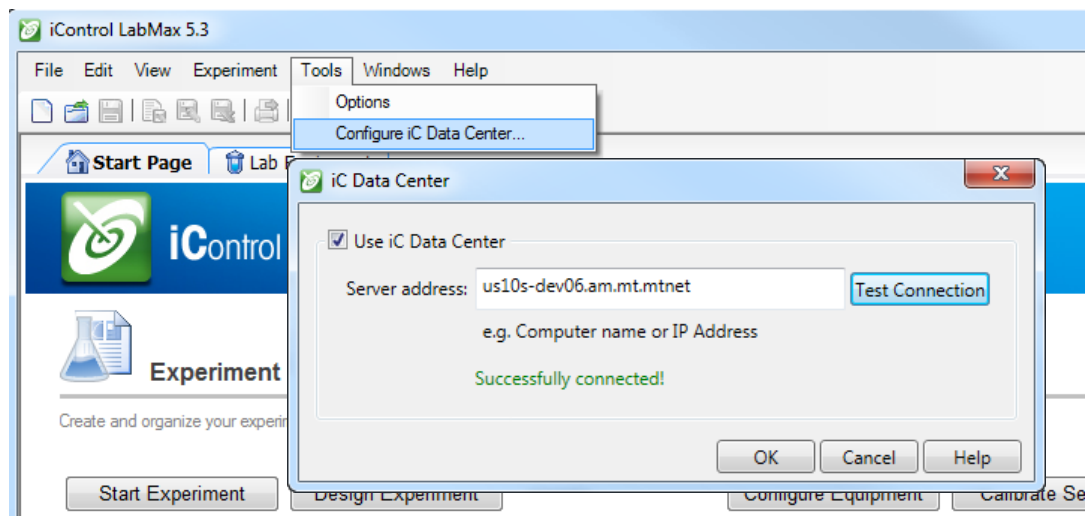
### 3.9 Installing iC Data Center and connecting iControl

iC Data Center is a key enabling technology that captures data from all connected instruments at the end of an experiment and stores it in a central location. Upon experiment completion several useful report files in common formats are automatically prepared and an email is sent to the experiment executor with links to the files. iC Data Center enables data sharing among chemists, engineers and their colleagues as well as providing a pathway for uploading experiments to electronic lab notebooks (eLN) and data management systems.



More information on iC Data Center can be found in the iC Data Center Overview video provided in the Tutorial Video section available from the iControl start page.

To connect iControl to an existing iC Data Center installation, go the main **Tools** menu and select **Configure iC Data Center**. Check the checkbox and enter in the full name or IP address of the iC Data Center server. Use the **Test Connection** button to verify communication.



## 4 UCB Firmware Update

The UCB (Universal Control Box) is an optional hardware component that can be used with your thermostat. It allows additional sensors and actors such as dosing pumps and valves to be used in conjunction with the reactors.

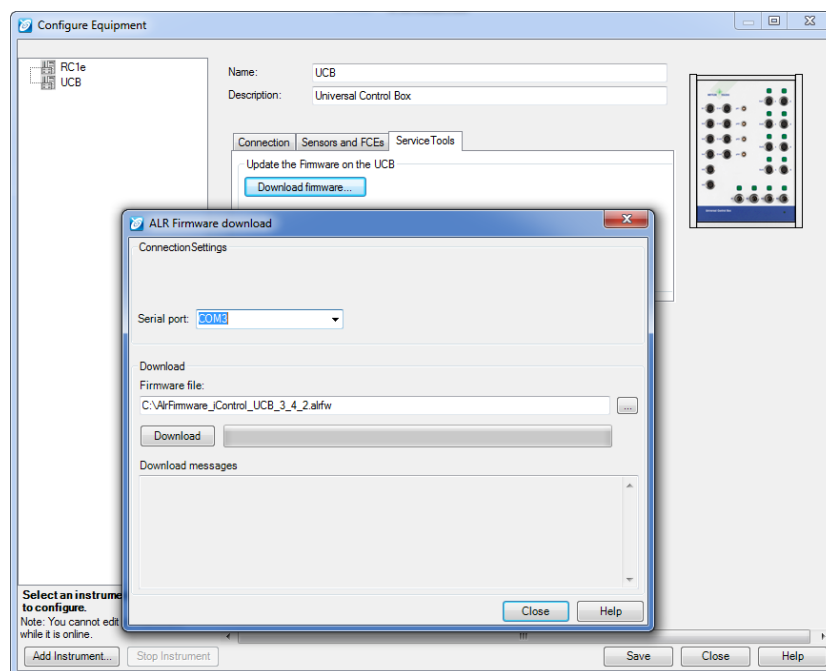
**NOTE:** If you were not already running iControl LabMax 5.0, then to use an existing UCB with iControl LabMax 5.3, you will need to update the firmware on this box.

On the iControl LabMax 5.3 DVD-ROM in the “Firmware” folder, you will find the following firmware file that can be used to update the UCB:

| Box-type | Version | Filename                             |
|----------|---------|--------------------------------------|
| UCB      | 3.4.2   | AlrFirmware_iControl_UCB_3_4_2.alrhw |

To update the UCB firmware:

1. Open **Configure Instruments** from your iControl LabMax 5.3 Start Page.
2. Click **Add Instrument...** and select the UCB instrument.
3. Select the “Service Tools” tab and click on **Download Firmware**. You will need to select the appropriate serial port for the UCB and browse for the firmware file mentioned above. Click the **Download** to initiate the transfer.



For more detailed information, refer to the iControl Online help (Search for “Download Firmware”).

## 5 Installation of Multiport Adapter

The Multiport adapter is used to connect the thermostat, and RD10 or a UCB (Universal Control Box) to a USB port. The USB-RS422 adapter VScorm USB-4COMi-SI works with Microsoft® Windows® Vista, Microsoft® Windows® 7, and Microsoft® Windows® 8/8.1.

The various drivers are found on the **VScorm Product Drivers and Manuals CD-ROM**, which is shipped together with the multiport adapter or can be downloaded from <http://www.vscorm.de>

The following chapters in the manual provide a brief overview on the installation of the multiport adapter:

1. Boot the system and log in under an administrative user account.
2. Insert the VScorm CD-ROM into your CD drive.
3. Check settings of the jumper on the USB multiport adapter, as defined on the USB adapter for use as RS422 adapter chapter:
  - Jumpers 1 and 2: ON
  - Jumpers 3 and 4: OFF
4. Plug the cable of the adapter into the USB port on the PC. Windows will start looking for device drivers since the adapter is Plug-and-Play. Go through the wizard and if necessary specify the appropriate path driver (located in the CD drive directory). The COM Port numbers start with the first available.
5. A reboot of the system is not necessary to complete the installation.

If you run into problems during the installation, please see the following problem descriptions:

|   | Problem  | Solution   |
|---|--|--|
| 1 | System doesn't recognize the new device  | Go to the <b>Control Panel -&gt; System and Security -&gt; System -&gt; Device Manager</b> and open the <b>USBDevice</b> (or the USB component with the yellow mark) and re-install the respective driver. Then subsequently, reboot the PC. |
| 2 | System doesn't find the 4 COM ports  | Reboot the PC  |
| 3 | COM ports are not found any more after unplugging and re-plugging of USB adapter | Reboot the PC  |

If this does not help, please refer to your service engineer or contact support at [support.rxe@mt.com](mailto:support.rxe@mt.com)

## 6 iControl/iC Licensing

iControl applications use a licensing scheme to control distribution and use of the software. Below are the types of licenses.

**Instrument version**—Enables the application to connect to an instrument and run experiments.

**Office version**—Enables the user to run the application without a connection to an instrument. With this version, experiment data obtained from a computer with an Instrument license can be viewed and analyzed.

**Trial version**—A trial version is equivalent to an Instrument license with a 30-day time limit.

**Module licenses**—Optional add-on modules, allow access to additional features that are purchased and licensed separately.

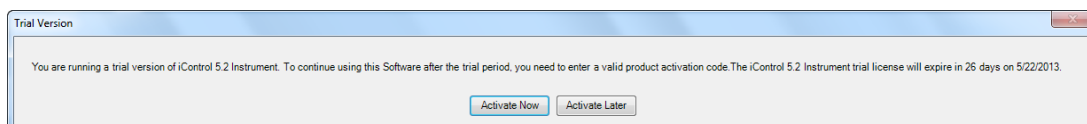
**iCare subscription**—A special annual subscription that entitles you to all major and minor upgrades and service packs for the Instrument or Office versions of your iC and iControl Software as well as priority telephone and email support.

**Site license**—Specific companies that have software agreements with METTLER TOLEDO may also have a Site License for a particular product or products. Please refer to page 16 for instructions on how to install a site license.

### 6.1 Using the License Manager to Activate a Single-User License

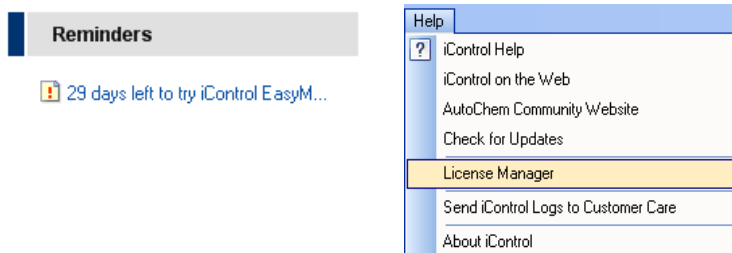
**NOTE:** Although you need to activate your software on a website, the computer where you are installing the iControl software does **not** require an internet connection. You can activate the software license using any internet-enabled computer or by contacting customer support at [ic@mt.com](mailto:ic@mt.com).

The following information applies to users installing a single-user Instrument, Office, or Module license. The first time the iC application starts, the system displays the Trial License dialog. Choose to **Activate Now** or **Activate Later**.



#### 6.1.1 Activate Later – Continue Under a 30-day Trial License

Click **Activate Later** in the Trial Version dialog box to defer license activation. You can activate the license at any time by selecting **License Manager** from the iControl software **Help** menu. A reminder link appears on the iControl Start Page to keep you apprised of the trial period.



## 6.1.2 Activate Now – Open License Manager and Obtain an Activation Code

When you click **Activate Now**, the License Manager dialog box opens. The License Manager contains an 8-character Machine ID and an area to input a 25-character Activation Code field in 5-character segments. Follow the steps below to obtain the code from the AutoChem Customer Community Website. The process starts in the License Manager and links to the AutoChem Customer Community website to obtain an activation code. Then, you return to the License Manager to enter the code and enable the software.

**NOTE:** If you purchased iCare at the same time as iControl LabMax 5.3, activate your 5.3 license first. Then, follow the steps on page 15 to activate the iCare subscription.

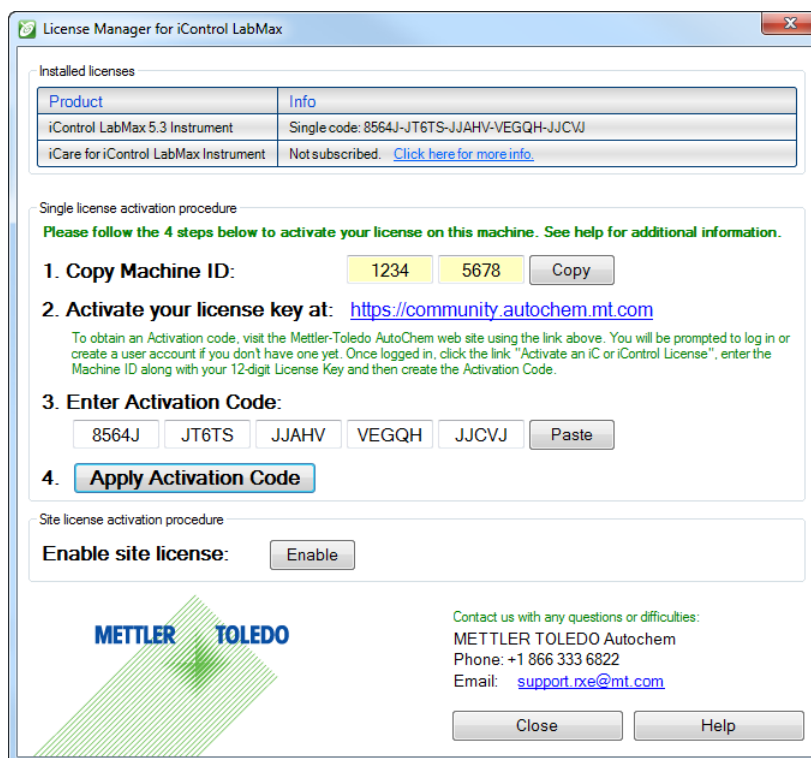


Figure 2 License Manager dialog box

1. Have your License certificate sheet ready. The sheet is usually an A5-size paper certificate delivered with the software.
2. In the License Manager dialog box (**Figure 2**), click **Copy** after step 1 to copy the machine ID to your clipboard.
3. Click the link (<https://community.autochem.mt.com>) after step 2.

**NOTE:** Access the AutoChem Customer Community website from any internet-enabled PC—this step does not necessarily need to be performed on the PC where the iControl software is installed.

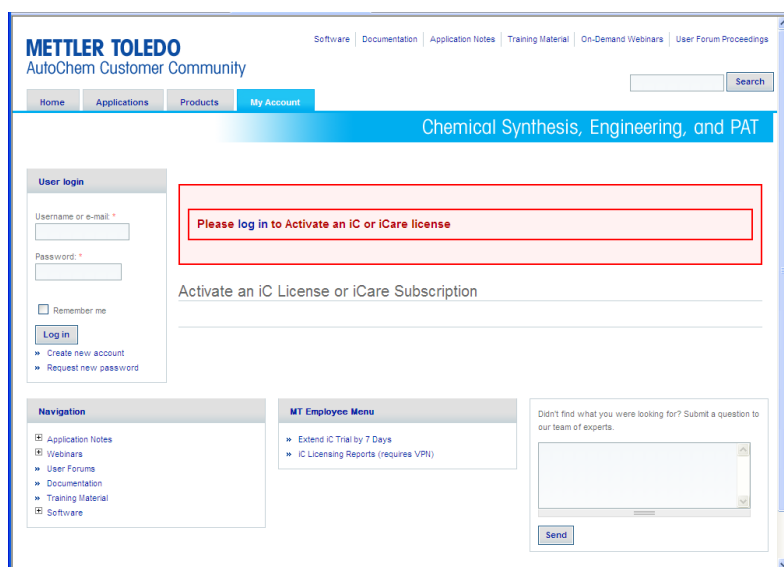


Figure 3 AutoChem Customer Community site

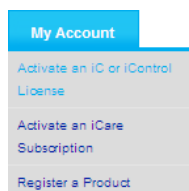
4. Depending on whether or not you have an account, start with one of the following steps:

If you are a new user, begin by setting up a user account (see page 16).

If you already have an account, enter your username and password and click **Log in** under User login or click **log in** from the red prompt box.



5. Click **Activate an iControl or iC License** from the **My Account** tab.



6. Enter the Machine ID from the iControl License Manager and the License Key from paper certificate.

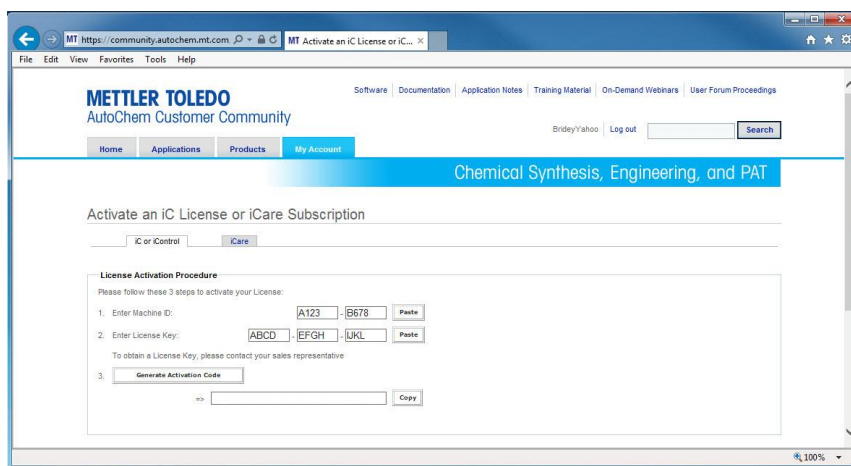


Figure 4 Activate License web page

- Click **Generate Activation Code** to produce the code in the text box. Then, click **Copy** to save the code to the clipboard.
- Return to the License Manager in the iControl software, and click **Paste** or type in the activation code in step 3. **Enter Activation Code**.

**2. Activate your license key at:** <https://community.autochem.mt.com>

To obtain an Activation Code, visit the Mettler-Toledo AutoChem web site using the link above. You will be prompted to log in or create a user account if you don't have one yet. Once logged in, click the link "Activate an iC or iControl License", enter the Machine ID along with your 12-digit License Key and then create the Activation Code.

**3. Enter Activation Code:**

Paste

**4.**

- Click **Apply Activation Code** to complete the activation. You should see a dialog box that confirms the activation is complete.
- Repeat the process to activate any module licenses on the PC.

## 6.2 Activating an iCare Subscription

The procedure to activate an iCare subscription is similar to that for obtaining an activation code from the AutoChem Customer Community website for a single-user license. The 12-character iCare Subscription Number is on an iCare Subscription Certificate that shipped with your order.

1. Login to the METTLER TOLEDO AutoChem Customer Community Website.
2. Click **Activate an iCare Subscription** from the My Account tab.

- My Account
- Activate an iC or iControl License
- Activate an iCare Subscription
- Register a Product

3. In the iCare activation window (Figure 5), enter the Machine ID from the iControl License Manager for the computer that this subscription should be associated with.

Software

Documentation

App Notes

METTLER TOLEDO

AutoChem Customer Community

Home

Applications

Products

My Account

Chemistry

Activate an iC License or iCare Subscription

1

iC or iControl

2

iCare

Subscription Activation Procedure

Please follow these 3 steps to activate your iCare subscription:

1. Enter Machine ID:

- 

Paste

NOTE: if you currently have iControl RC1e 3.3 or iC IR 2.0 or earlier, then please enter 1111 1111 as the Machine ID, otherwise use the Machine ID found on the License Manager dialog (under the Help menu) of your iC software or in the table of activated licenses below.

2. Enter Subscription Number:

-  - 

Paste

To obtain an iCare subscription number, please contact your sales representative

3. 

Activate Subscription

### Figure 5 Activate an iCare Subscription window

4. Enter the Subscription Number from the certificate sheet.
5. Click the **Activate Subscription** button. You should receive a confirmation email message in a few minutes that provides some additional information about the program.
6. The email will also include an iCare Subscription Activation Code that can be entered or pasted back into the License Manager dialog box of the iControl software.

Activating the iCare subscription in the software itself is not required, but if you perform this step, then you will not need to update any licensing information if a new iControl version is released before the iCare subscription expires.

### 6.3 Setting Up a New User Account

If you do not already have a user account on the AutoChem Customer Community Website, you will need to create one before your licenses can be activated.

1. From the AutoChem Customer Community website (<https://community.autochem.mt.com>), click the **Create new account** link.
2. Enter the required information and accept the terms.
3. Click **Create new account** at the bottom of the registration form.

The AutoChem Customer Community website confirms that an email is being sent:

Your password and further instructions have been sent to your e-mail address.

You will receive an email with instructions and a link to confirm your email address and complete the new account registration.

**NOTE:** Your website registration will be pending until confirmed by METTLER TOLEDO AutoChem; however, you can activate the software by following the link provided in the email.



Val Customer,

Thank you for registering at METTLER TOLEDO AutoChem Customer Community. Your account is pending approval. In the meantime, please confirm your email address by following this link and creating a password:

<https://community.autochem.mt.com/index.php?q=user/validate/2377/1272317564/18022cb491995c42e28b6225e3da44c8>

Until we approve your account for unlimited access to all content (usually within 2 business days), you still have full access to the following functionality:

- activate your iC or iControl software <https://community.autochem.mt.com/index.php?q=node/422>
- register your instrument(s) for warranty
- update your profile (e.g. change your password)

If you have questions, please don't hesitate to contact us at [autochem.community@mt.com](mailto:autochem.community@mt.com)

Thank you  
-- METTLER TOLEDO AutoChem Customer Community team

4. Click the first link to confirm your email. You will go to a one-time login where you create a password.
5. After you change and confirm the password, click **Save** at the bottom of the page.

### 6.4 Installing a Site License

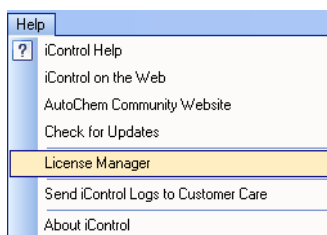
Most companies do NOT have a site license, so only follow this procedure if specifically directed by your organization.

**NOTE:** To use a site license file, the computer must be a member of the company's named domain. If the computer is standalone and not on the network, then METTLER TOLEDO can provide an individual activation code. Please contact your site administrator for assistance.

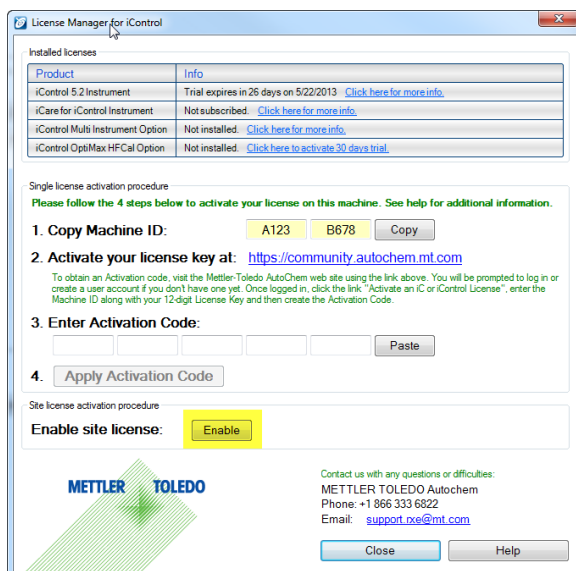
A Site License is supplied as a file, usually via email and must be loaded into each copy of the iControl software in use.



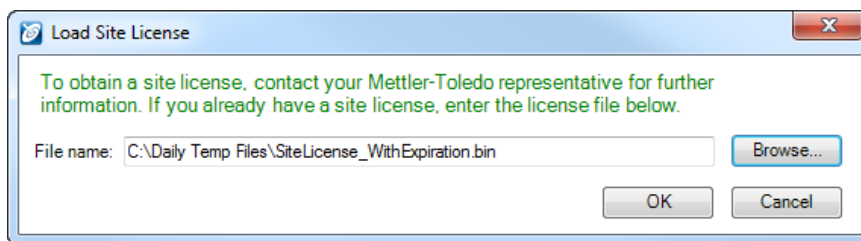
1. To install the Site License, open the License Manager by selecting it from the Help menu.



2. In the License Manager, click **Enable**.



3. Click **Browse** to navigate to the Site License file location. Then, click **OK**.



The license loads and the software is ready to use.

4. Repeat on the other computers with iControl installed.

## 7 Security and Setup Guidelines for IT

This section is intended for IT (Information Technology) departments to help them understand the minimal user privileges and general computer setup needed to install and run iControl LabMax 5.3.

### 7.1 Installation Privileges

The installation of iControl LabMax 5.3 requires **administrative privileges**.

### 7.2 Execution Privileges

To operate iControl LabMax 5.3 **normal user privileges** are sufficient.

### 7.3 Folders Access Privileges

To operate iControl LabMax 5.3, the logged in user needs **read access** to the following folders including all subfolders:

32-bit Operating System: *<Drive>:\Program Files\METTLER TOLEDO*

64-bit Operating System: *<Drive>:\Program Files (x86)\METTLER TOLEDO*

To operate iControl LabMax 5.3, the logged in user needs **read/write access** to the following folders including all subfolders:

*<Drive>:\ProgramData\METTLER TOLEDO*

*<Drive>:\Users\<UserName>\AppData\Roaming\METTLER TOLEDO*

*<Drive>:\Users\<UserName>\AppData\Local\Temp*

### 7.4 Registry Access Privileges

To operate iControl LabMax 5.3, the logged in user needs **read/write access** to the following keys including all subkeys:

HKEY\_LOCAL\_MACHINE\SOFTWARE\Mettler Toledo

#### 7.4.1 UDP Ports

All iControl 4.0 (and newer) and iC 4.0 (and newer) application use UDP broadcasts on the UDP port 1001 (default) to find each other. This happens only if the user presses "Find METTLER TOLEDO Applications" in an iC application (in the main menu under Tools/Connect to other iC/iControl applications...). In iControl the broadcast is done automatically and does not need to be triggered manually.

**NOTE:** It is not required to have this port open. The UDB broadcast is only used to find and exchange the Hostname and TCP port settings to connect the iControl or iC applications. All the actual communications are then done on a TCP link.

This default UDP port can be changed in the following XML file by setting a different Broadcast Port:  
*C:\ProgramData\METTLER TOLEDO\ApplicationInfo.config.xml*

```
<?xml version="1.0" standalone="yes"?>
<AppInfos>
  <AppInfo>
    <Title>iControlLabMax on LocalHost</Title>
    <AppType>iControlLabMax</AppType>
    <Version>5.3.28.0</Version>
    <Host>ch03w0713.eu.mt.mtnet</Host>
    <Path>C:\Program Files\METTLER TOLEDO\iControl LabMax 5.3\iControlLabMax.exe </Path>
    <Port>3906</Port>
    <Index>0</Index>
  </AppInfo>
  <OtherDefaults>
    <BroadcastPort>1001</BroadcastPort>
  </OtherDefaults>
</AppInfos>
```

**NOTE:** This file is created when iControl starts up the first time.

### 7.4.2 TCP Ports

By default, iControl communicates with other iControl or iC applications on the network over TCP port **3906**.

## 7.5 Check Power Settings

On a PC that will be controlling an instrument, you must adjust the power settings to prevent interruption of the data collection process.

### 7.5.1 Never Go into Sleep Mode

Search for 'Power options.' Set all to Off, Never, or Disabled.

### 7.5.3 Disable Hibernation Mode

Check that the 'Enable hibernation' option is not selected.

## 7.6 Deployment Files and Dependencies

An iControl installation has the third-party dependencies listed below.

| Third-Party Dependencies | Version             | Third-Party |
|--------------------------|---------------------|-------------|
| .Net Framework           | 4.5 full            | Microsoft   |
| SQL Server               | Compact Edition 4.0 |             |
| Windows installer        | 3.1                 |             |

An iControl installation deploys the files described below.

| iControl Software Deployments   | Notes             |
|---|-------------------|
| Software and instrument drivers deployed to<br><br>32-bit Operating System:<br>C:\Program Files\METTLER TOLEDO\iControl LabMax 5.3<br>C:\Program Files\METTLER TOLEDO\ALRComponents 5.3<br><br>64-bit Operating System:<br>C:\Program Files (x86)\METTLER TOLEDO\iControl LabMax 5.3<br>C:\Program Files (x86)\METTLER TOLEDO\ALRComponents 5.3 | Installation path |
| Miscellaneous configuration files deployed to: <ul style="list-style-type: none"><li>• C:\ProgramData\METTLER TOLEDO\iControl LabMax\5.3</li></ul>  |                   |

## 8 Sharing Data Between iC/iControl Applications

Using synthesis workstations controlled by iControl with METTLER TOLEDO analytical probes connected to iC software has many benefits. See the tutorial video **Using iControl and iC Analytical Probes** included with iControl for a good summary of how to setup the connection and the benefits of using it.

The simplest way to connect iControl and iC analytical software like iC IR, iC FBRM or iC Raman, is to install the applications on the same computer. If this is the case, then proceed directly to section **8.2 Connecting the iC/iControl Applications**.

If iControl and the iC analytical software are on separate computers then the two PC's must have an Ethernet connection between them, either over the corporate network or a private LAN.

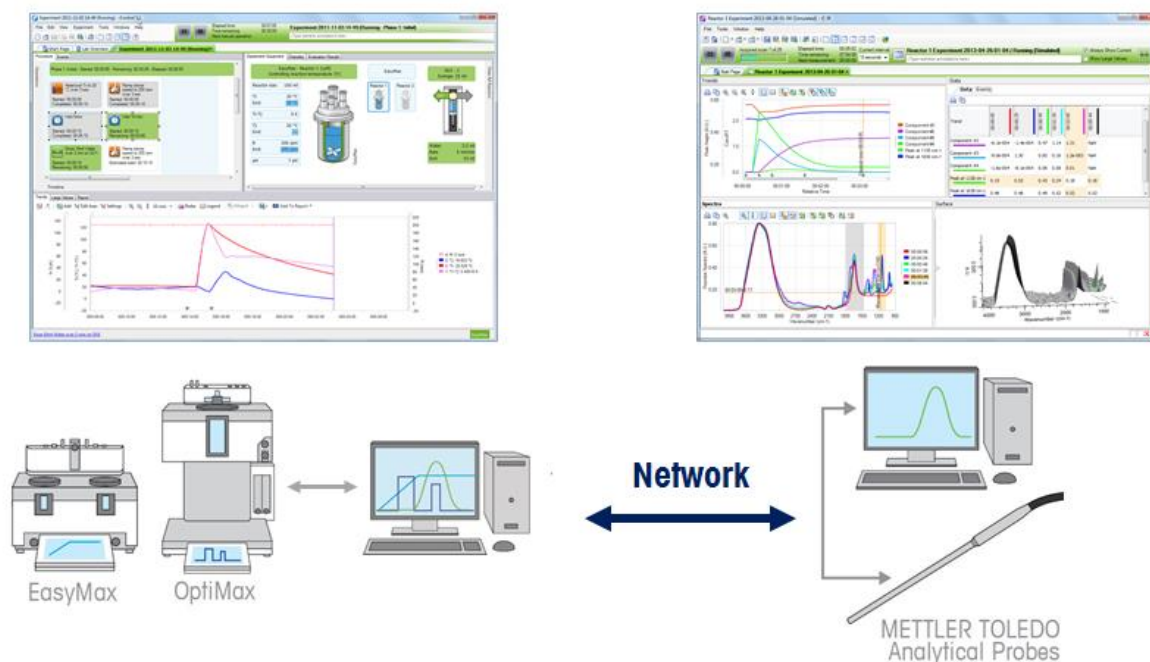


Figure 6 Sharing Data Between Experiments in Real-time

This section provides a general summary of the steps needed to connect two computers running iC software over a corporate network. If the PCs and instruments are connected to each other on a private hub or you have difficulties with any of these steps and need additional troubleshooting information, then please refer to the full Software Tip Sheet on Sharing Data between iC/iControl applications which is available on the AutoChem Customer Community website (<https://community.autochem.mt.com/index.php?q=iCApplInterop>)

Before starting the steps below, ensure that:

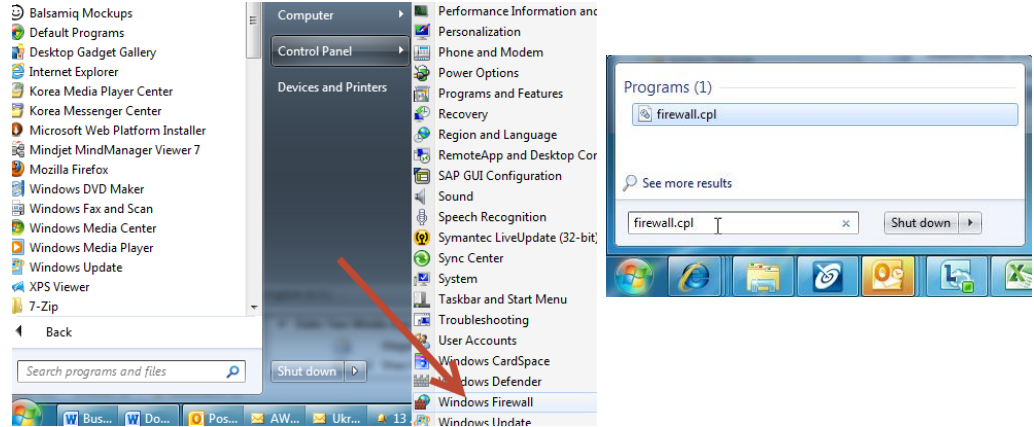
- The iC and iControl applications on each PC are properly installed and can successfully execute an experiment with their respective equipment
- The two Computers are connected on the same network

The general approach is to add an exception to the Windows Firewall on each machine and then configure iControl and the iC applications to communicate with each other.

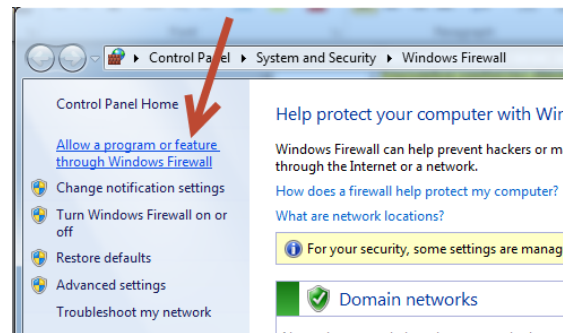
## 8.1 Configuring the Windows Firewall

The instructions in this section are only required if the iControl software and the iC analytical software are on different computers. If they are installed on the same PC, this step can be skipped.

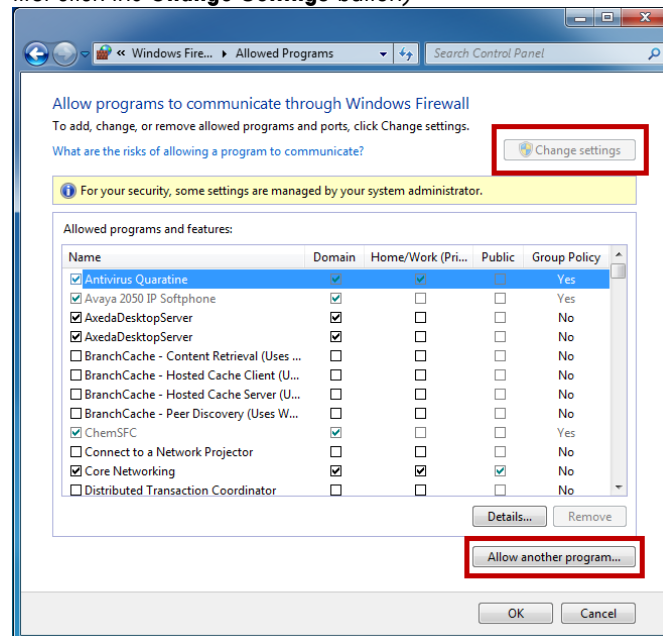
1. On the PC running iControl, click the **Start -> Control Panel -> System and Security -> Windows Firewall**. (or use the start search option for **firewall.cpl**)



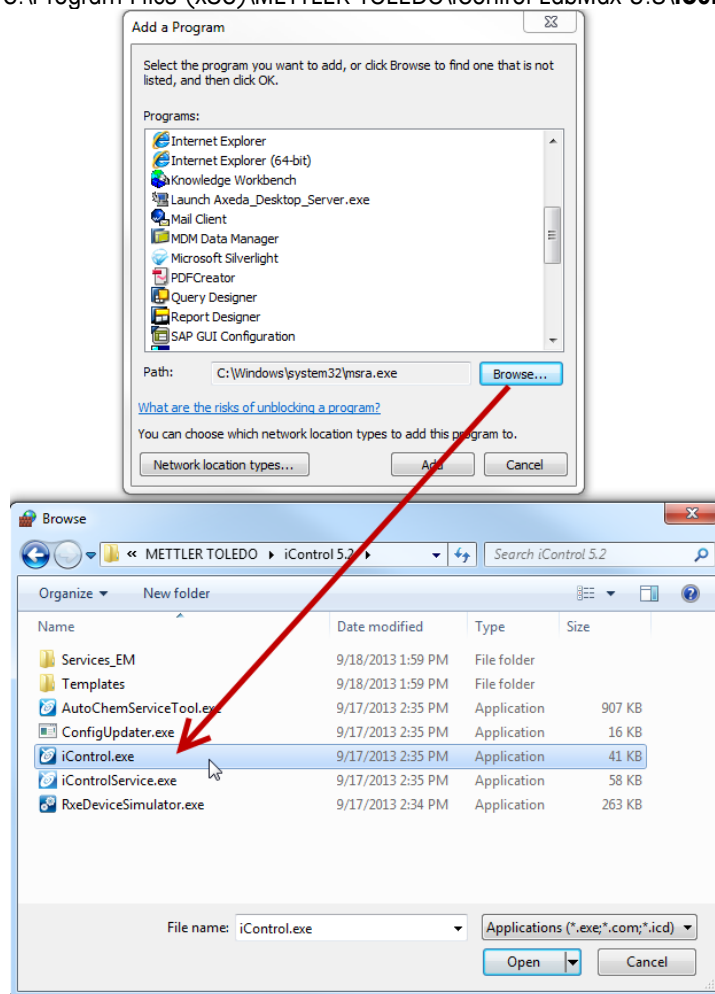
2. Select the **Allow a program** option.



3. Select the **Allow another program** button (if this button is not enabled, then you may need to first click the **Change Settings** button)



4. Select the Browse option and locate:  
 C:\Program Files (x86)\METTLER TOLEDO\iControl LabMax 5.3\iControlLabMax.exe

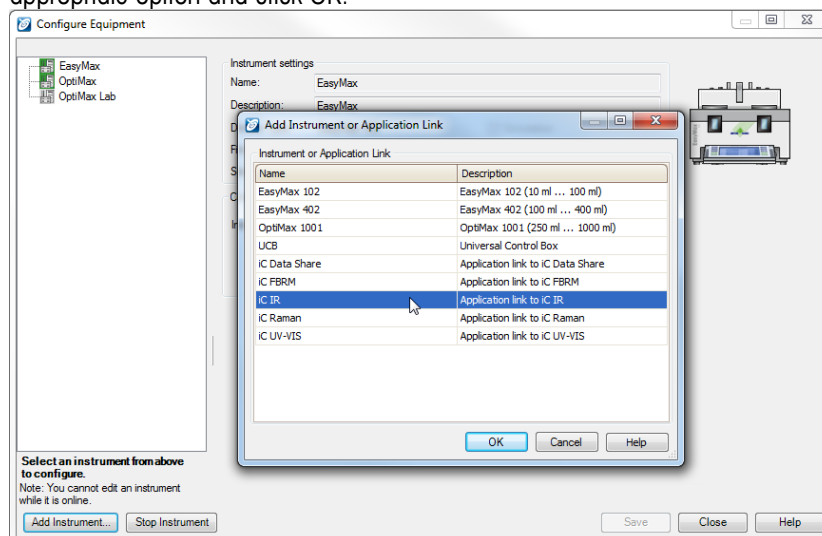


**Note:** If you install a different version of iControl, you will need to repeat this process for the new version.

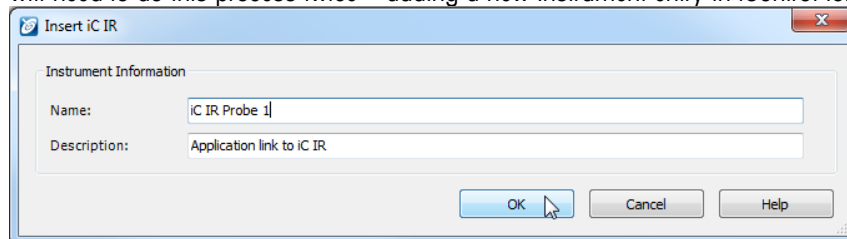
5. Repeat steps 3-4 and add a program exception for:  
 C:\Program Files (x86)\METTLER TOLEDO\iControl LabMax 5.3\iControlService.exe.
6. On the PC running the iC analytical software, repeat steps 1-4 and add an exception for appropriate programs such as:
- C:\Program Files (x86)\METTLER TOLEDO\iC IR 4.3\iCIR.exe
  - C:\Program Files (x86)\METTLER TOLEDO\iC FBRM 4.3\iCFBRM.exe AND  
 C:\Program Files (x86)\METTLER TOLEDO\FBRM Server 4.3\FBRMServer.exe
  - C:\Program Files (x86)\Kaiser\iC Raman 4.1\iCRaman.exe

## 8.2 Connecting the iC/iControl Applications

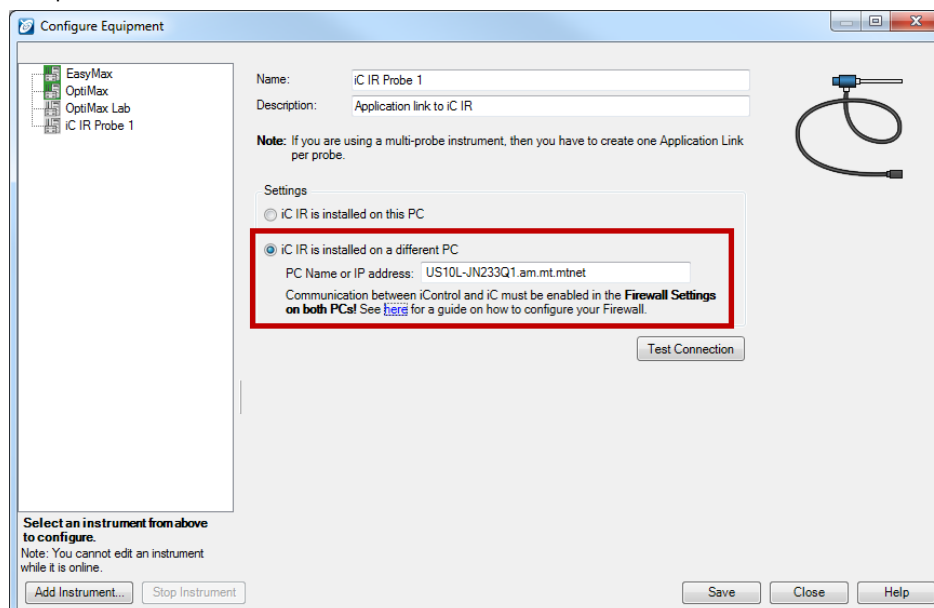
1. Start both the iC analytical software (i.e. iC IR) and iControl.
2. In iControl, click **Configure Equipment** on the start page, click **Add Instrument**, select the appropriate option and click OK:



3. Enter a name for the analytical instrument probe and click OK. If you are using a multiple probe instrument with an EasyMax or two OptiMax systems (one probe for each reactor), then you will need to do this process twice – adding a new Instrument entry in iControl for each probe.

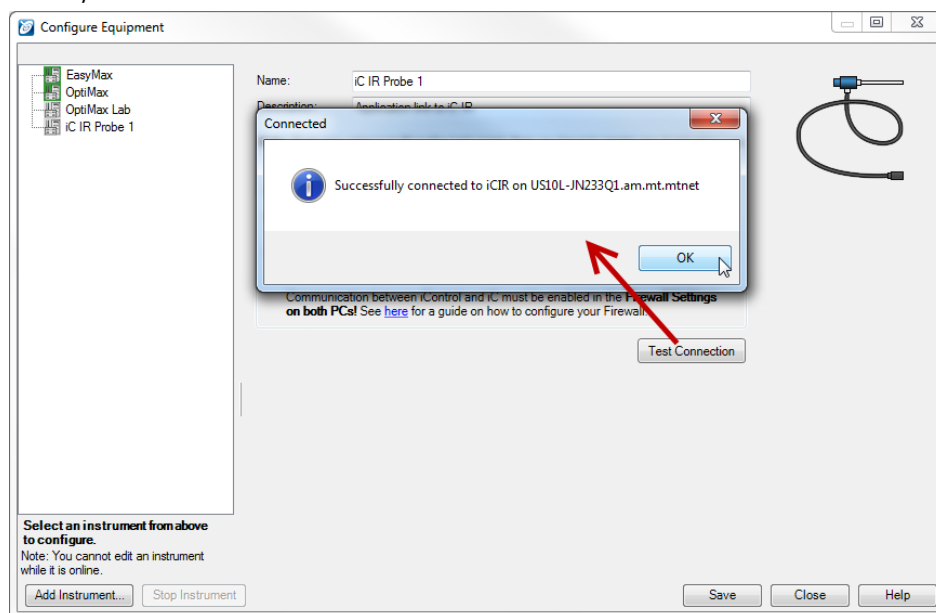


4. Select the option for the iC analytical software being installed on a different PC and enter the computer name or IP address





5. Make sure the iC software is running on the other PC and then click the Test Connection button to verify communication.



6. If the test is successful, save the configuration. If iControl cannot communicate with the iC computer and the firewall has already been updated, then see the more extensive connection guide available on the AutoChem Customer Community website:  
<https://community.autochem.mt.com/index.php?q=iCApplInterop>

## 8.3 Verifying Connection

To verify that the connection is working for all aspects of the interface, perform the following checks:

### 8.3.1 Check that iControl Can Connect to iC

1. Start a new experiment and include the iC device in the equipment setup
2. Execute the run and verify that you can start a new iC experiment from the iControl wizard
3. Verify that the iC experiment starts when the iControl experiment starts
4. Check that the iC operations can be used in the iControl procedure (change sample interval, pause, etc.)
5. Add iC trends to the iControl Trend Viewer
6. Try a different experiment that specifies a template file (note that the path for the template file should be from the iC application point of view)

### 8.3.2 Verify iC Connection to Another iC or iControl Application

1. Add trends from an open experiment in one application to the other iC applications' live or completed experiment
2. Verify that live trends from one iC application are correctly updated in a live experiment on the other iC application

If you encounter any issue and need further instructions or troubleshooting ideas, then please refer to the full Software Tip Sheet on Sharing Data between iC/iControl applications which is available on the AutoChem Customer Community website:

<https://community.autochem.mt.com/index.php?q=iCApplInterop>

## 9 Uninstalling iControl LabMax 5.3

Below are instructions to uninstall the current or previous versions of iControl software and the prerequisite software applications.

### 9.1 Uninstalling iControl LabMax 5.3 Application

**NOTE:** Uninstalling iControl LabMax 5.3 will not uninstall or delete any experiments, equipment database, license activation, or user settings—all data is retained. So, after you reinstall iControl LabMax 5.3 (or install a future version of iControl) all of your data will be accessible again.

To uninstall the iControl LabMax 5.3 application, open **Uninstall a Program** from the 'Control Panel' and select the 'iControl LabMax 5.3' entry.

Click **Uninstall** to start the removal process and follow the instructions in the uninstall wizard.

### 9.2 Uninstalling Previous iControl Installations

When uninstalling a previous iControl installation such as iControl 4.0/5.0, remove only the iControl installation. Do not remove any METTLER TOLEDO ALR Components installations.

### 9.3 Uninstalling Prerequisite Software

Please note that iControl LabMax 5.3 requires several prerequisite applications to run. Uninstalling any of the prerequisite applications may lead to unexpected behavior in iControl or affect other applications installed on the PC. The following table shows the required prerequisites per product:

|                     | Microsoft .NET Framework 4.5 | Microsoft SQL Server Compact 4.0 |
|---------------------|------------------------------|----------------------------------|
| iControl LabMax 5.3 | X                            | x                                |

#### 9.3.1 Uninstalling Microsoft SQL Server Compact 4.0

To uninstall Microsoft SQL Server Compact 4.0, open **Uninstall a Program** from the 'Control Panel' and select the 'Microsoft SQL Server Compact' entry. Then click **Uninstall** to start the removal process and follow the uninstall wizard.

#### 9.3.2 Uninstalling Microsoft .NET Framework 4.5

**NOTE:** Microsoft .NET Framework 4.5 is a basic infrastructure component of your Windows operating system and therefore uninstalling it is not recommended.

To uninstall the Microsoft .NET Framework 4.5, open **Uninstall a Program** from the 'Control Panel' and select the 'Microsoft .NET Framework 4.5' entry. Click to start the removal process. Follow the uninstall wizard instructions.