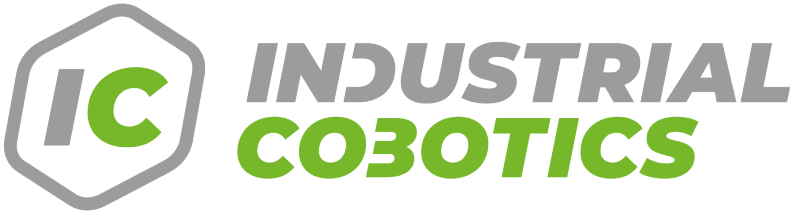


iSee Ui

iSee Ui License Server

User manual

v1.1

Original Instructions
Date: 2023, August

The information contained herein is the property of Industrial Cobotics BV and shall not be reproduced in whole or in part without prior written approval of Industrial Cobotics BV. The information herein is subject to change without notice and should not be construed as a commitment by Industrial Cobotics BV. This document is periodically reviewed and revised. Industrial Cobotics BV assumes no responsibility for any errors or omissions in this document. Copyright © 2022 by Industrial Cobotics BV.

Copyright © 2022 by Industrial Cobotics. All rights reserved

Copyright © 2022 by Industrial Cobotics. All rights reserved

Contents

1 General information **1**
- 1.1 Purpose . . . 1
- 1.2 Company details . . . 1
- 1.3 Disclaimer . . . 1

2 iSee Ui License Server **2**
- 2.1 Intro . . . 2
- 2.2 Compatibility . . . 2
- 2.3 Requirements . . . 2
- 2.4 Installation . . . 2
- 2.5 Caution . . . 5
- 2.6 Overview . . . 5
- 2.7 Toolbar . . . 6
  - 2.7.1 Server start/stop . . . 6
  - 2.7.2 Server settings . . . 6
  - 2.7.3 About . . . 7

3 License keys **8**
- 3.1 Procedure to obtain a license key . . . 8
- 3.2 Procedure to deactivate a license key . . . 9
- 3.3 License key information . . . 9
  - 3.3.1 Id . . . 9
  - 3.3.2 Product name . . . 10
  - 3.3.3 Type . . . 10
  - 3.3.4 Status . . . 10
  - 3.3.5 State . . . 11
  - 3.3.6 Info . . . 11
- 3.4 License key controls . . . 11
  - 3.4.1 Requesting a new license . . . 13
  - 3.4.2 Adding a new license . . . 13
  - 3.4.3 Request deactivation of a license . . . 13
  - 3.4.4 Deactivate a license . . . 14
  - 3.4.5 Remove a license . . . 14

4 Licenses **16**

5 Clients **17**
- 5.1 Client information . . . 17
- 5.2 Client controls . . . 18
  - 5.2.1 Add a new client . . . 19
  - 5.2.2 Open the settings of a client . . . 20

Copyright © 2022 by Industrial Cobotics. All rights reserved

5.2.3 Remove a client 20
5.3 Client settings 20
5.3.1 Permission for license use 21
5.3.2 Max days to commute 21

Copyright © 2022 by Industrial Cobotics. All rights reserved

1. General information

1.1 Purpose

The purpose of the iSee Ui License Server is to provide an easy and user-friendly means for managing floating licenses for the iSee Ui Builder.

1.2 Company details

Industrial Cobotics BV
Atomveldstraat 10 - bus 2
9450 Haaltert
Belgium
Tel: +32 27 93 10 41
mail: info@industrialcobotics.be

1.3 Disclaimer

Industrial Cobotics continues to improve reliability and performance of its products, and therefore reserves the right to upgrade the product without warning. Industrial Cobotics takes every care that the contents of this manual are precise and correct, but takes no responsibility for any errors or missing information.

Copyright © 2022 by Industrial Cobotics. All rights reserved

2. iSee Ui License Server

2.1 Intro

The iSee Ui License Server is software intended for managing floating licenses for the iSee Ui Builder. Clients can request a license from the server in order to be able to use the iSee Ui Builder for more than 8 items. For 8 items and less, the iSee Ui software can be used for **free**. For more details, consult the iSee Ui Builder manual.
In the iSee Ui License Server, clients can be given permission to request a license from the server, as well as commute the license for a maximum number of days.

2.2 Compatibility

This iSee Ui License Server version is compatible with the iSee Ui Builder version 1.5 and higher.

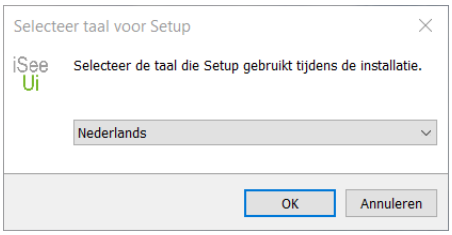
2.3 Requirements

To install and execute the iSee Ui License Server, the following requisites are needed:

- OS Windows: 10 or 11; or Linux or Mac

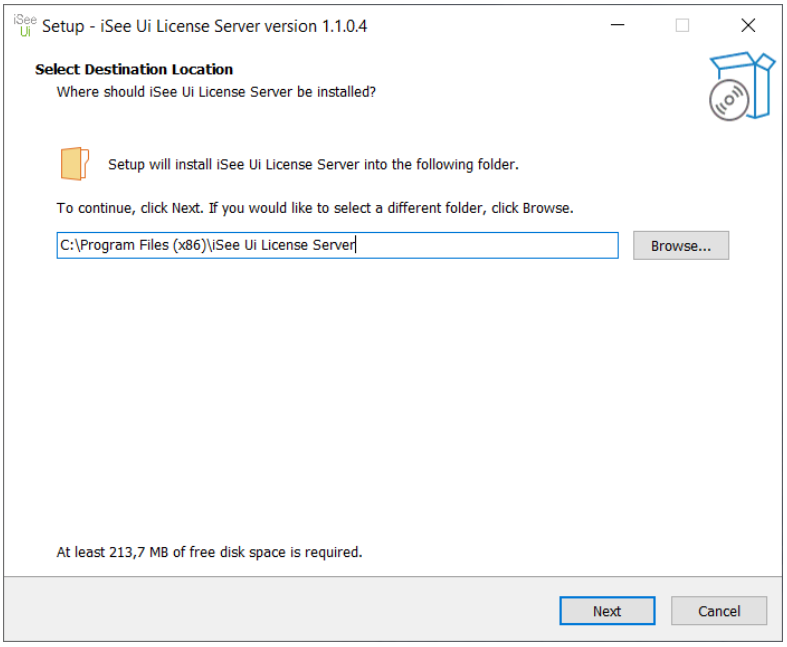
2.4 Installation

The iSee Ui License Server software can be installed on the computer by double-clicking the setup file, run as administrator if needed, and then following the instructions shown on the computer screen:

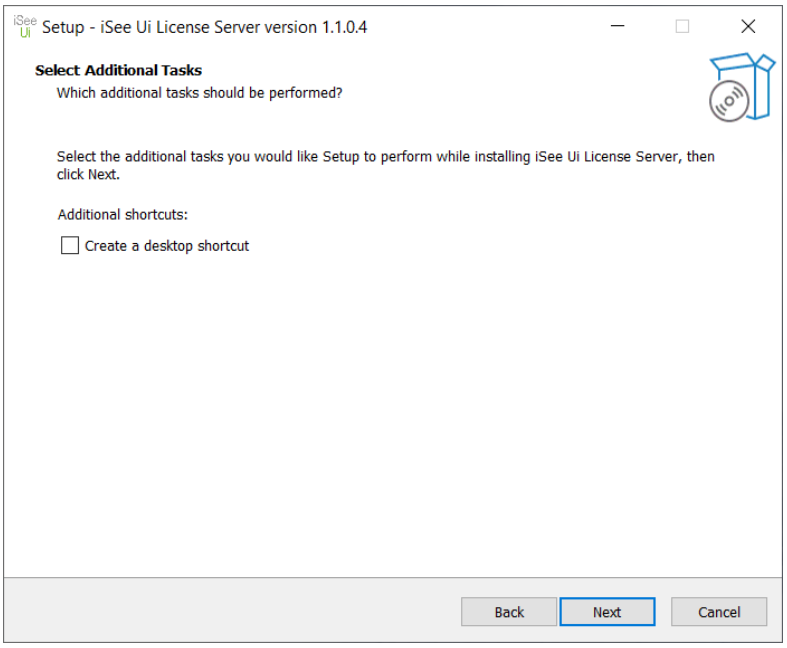


Select the setup language

Copyright © 2022 by Industrial Cobotics. All rights reserved

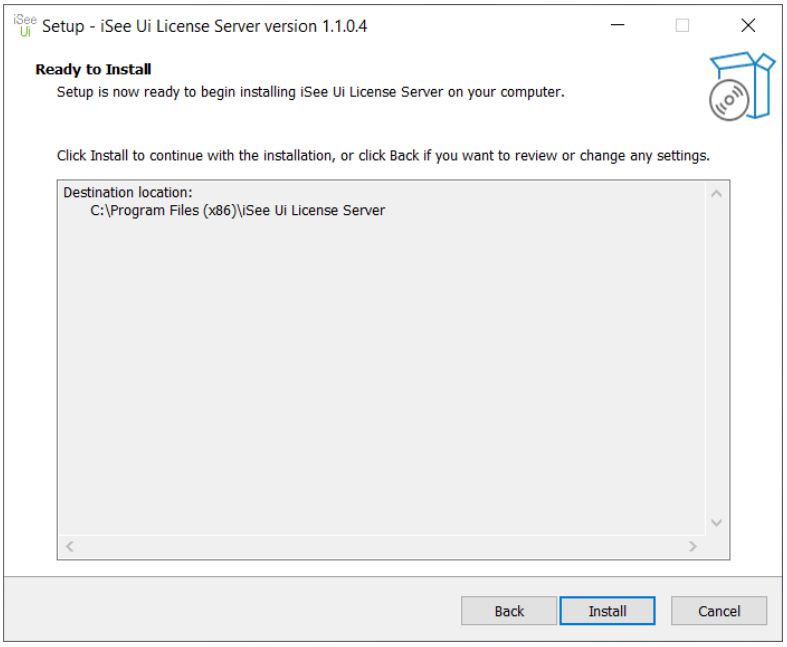


Define the installation directory for the software

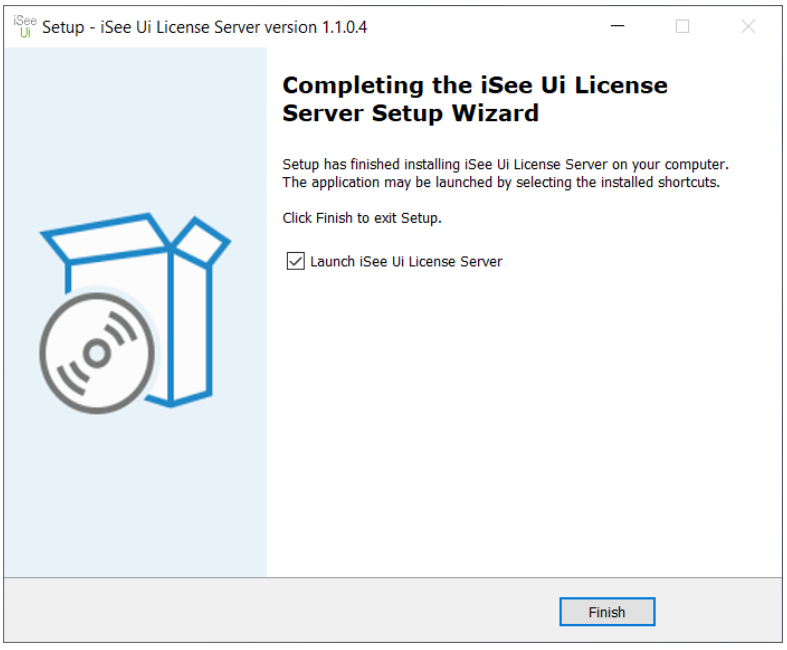


Choose if you want to create a desktop shortcut

Copyright © 2022 by Industrial Cobotics. All rights reserved



Begin the installation



Complete installation and run the software

Copyright © 2022 by Industrial Cobotics. All rights reserved

2.5 Caution

Never make changes to the “License” folder in the installation directory!
Any changes to the folder or its content, by renaming, adding, deleting, copying, or any other action, will revoke the validity of all licenses and render them unavailable!

2.6 Overview

As can be seen in figure 2.2, the iSee Ui License Server window consists of 3 parts, a top, middle and bottom part. In the top part, a toolbar is given. The middle part shows the currently open page. And the bottom part allows for changing the page by selecting one of the 3 provided tabs.

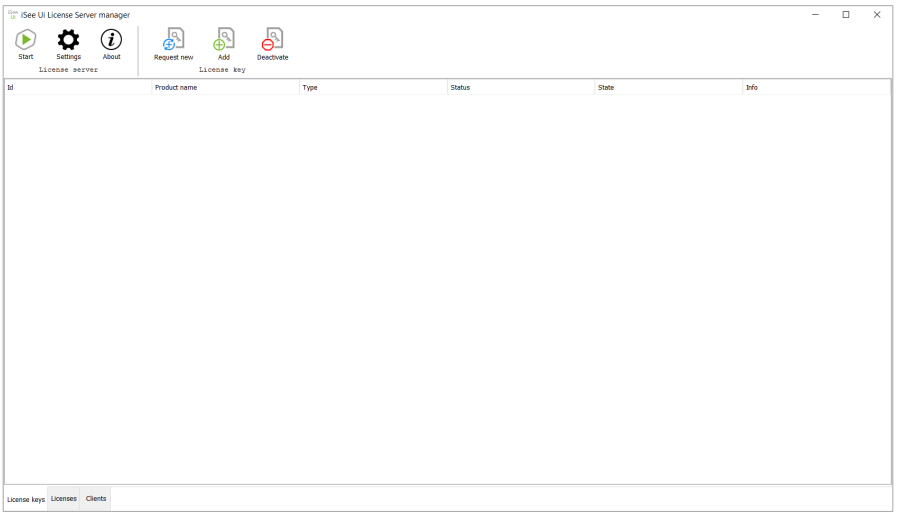


Figure 2.2: iSee Ui License Server window

The toolbar consists of a left and right section. In the left section, the server control and settings buttons can be found. These are independent of the selected tab and will be discussed in section 2.7.
In the right section, additional buttons can be found that are dependent on the selected tab and will be discussed in each chapter that describes the specific tab.

In the bottom part, the following tabs are provided for changing the page:

- License keys: gives an overview of all the license keys. License keys can be requested, added, and deactivated. Chapter 3 will discuss this in more detail.
- Licenses: gives an overview of the status of all the licenses and will be discussed in chapter 4.
- Clients: gives an overview of the clients. Clients can be added, removed, and given access to the License Server. Chapter 5 will discuss this in more detail.

Copyright © 2022 by Industrial Cobotics. All rights reserved

2.7 Toolbar

In the left section of the toolbar, the server control (start/stop), settings, and about buttons can be found. These will be discussed in the next sections. In the right section of the toolbar, additional buttons can be found that are dependent on the selected tab.

2.7.1 Server start/stop

In order for users to be able to receive a license from the License Server, the License Server has to be started by pressing the "Start" button

. Once pressed, the License Server will be reachable over the network.
When the License Server is running, the "Stop" button

can be pressed to stop the License Server and take it offline.

2.7.2 Server settings

The server settings can be configured by pressing the "Settings" button

. Once pressed, the settings window will open, as can be seen in figure 2.3.

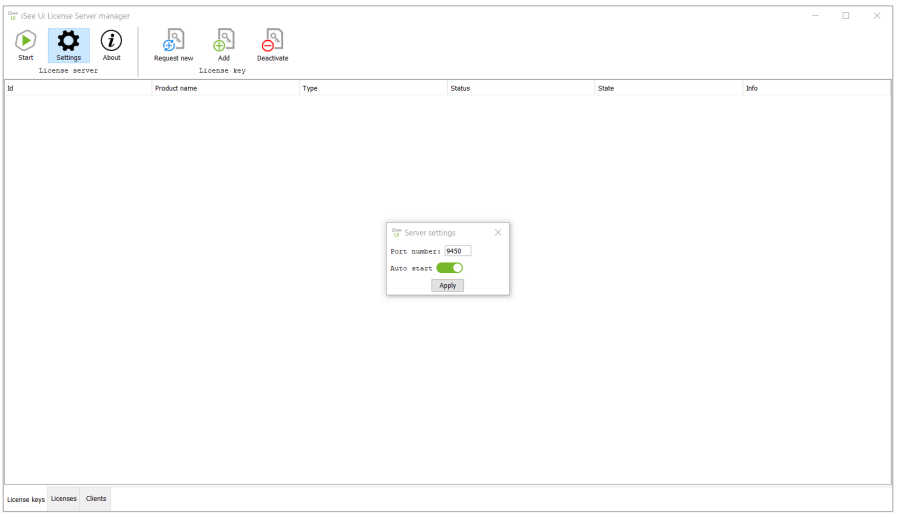


Figure 2.3: iSee Ui License Server settings

The iSee Ui License Server communicates with any client, using the iSee Ui Builder, over a network port. The port number can be changed in the settings window, and is by default set to "9450". When the License Server is running and the port number is changed, the License Server will automatically stop and will have to be manually restarted.

Copyright © 2022 by Industrial Cobotics. All rights reserved

The server can be configured to automatically start when the iSee Ui License Server software is started. This can be done by switching on the “Auto start” setting. This setting will not automatically start the License Server software when the computer is powered on. For this, additional actions are needed in the operating system itself.

If either the “Port number” or “Auto start” setting is changed, the “Apply” button will be enabled. Pressing the button will apply the changes. The changes can be canceled by closing the settings window using the close button in the top right corner.

2.7.3 About

Detailed information about the iSee Ui License Server software, such as version and compatible iSee Ui Builder version, can be found by pressing the “About” button

. Once pressed, the about window will open as can be seen in figure 2.4.

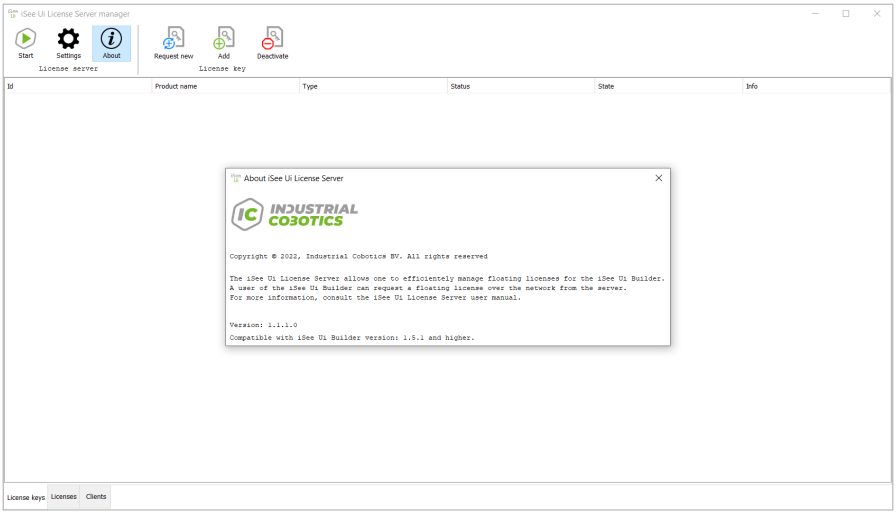


Figure 2.4: About iSee Ui License Server

Copyright © 2022 by Industrial Cobotics. All rights reserved

3. License keys

On the “License keys” page, an overview is given of all the imported license keys and their information, being their ID, type, status, state, and additional information. In section 3.3 the provided information of a license key is explained in detail.
License keys can also be requested, added, deactivated, and removed using the buttons in the right section of the toolbar. In section 3.4, the buttons will be explained in detail.
The “License keys” page can be opened by selecting the “License keys” tab in the bottom part of the window, as can be seen in figure 3.1.

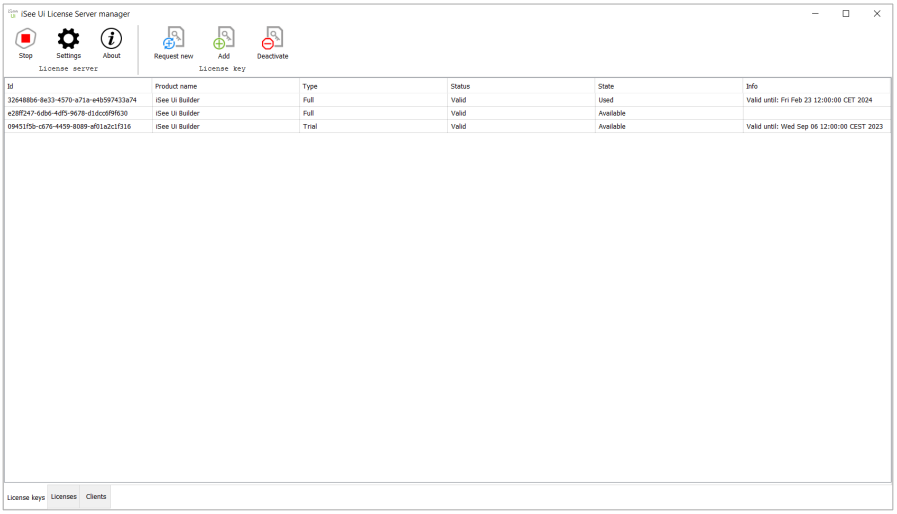


Figure 3.1: License keys page

3.1 Procedure to obtain a license key

To obtain a license key, both for a trial and a purchased license, follow the following procedure:

1. Create a “license_request” file. How to do this will be discussed in section 3.4.1.
2. Send the “license_request” file to info@industrialcobotics.be.
3. A license file will be sent back. For a full license (see section 3.3.3), the license file will be sent together with the purchase order.
4. Import the license. How to do this will be discussed in section 3.4.2.

Imported licenses are added to the “License” folder in the installation directory.
CAUTION: DO NOT MAKE CHANGES TO THE FOLDER OR THE CONTENT BY MANUALLY ADDING, REMOVING, RENAMING, OR COPYING FILES!
If the folder or its content is changed by any action, the validity of all the licenses will be revoked, rendering them unavailable!

Copyright © 2022 by Industrial Cobotics. All rights reserved

3.2 Procedure to deactivate a license key

Licenses are linked to the computer on which the iSee Ui License Server has been installed and the "license_request" file was created. When a license needs to be transferred to another computer, the license needs to be deactivated following the correct procedure:

1. Create a "deactivate_request" file. How to do this will be discussed in section 3.4.3. After creating a deactivation request, the license can still be used until point 4 of the procedure is done.
2. Send the "deactivate_request" file to info@industrialcobotics.be.
3. If the license is a purchased license, a deactivation file will be sent back.
4. Import the deactivation file. How to do this will be discussed in section 3.4.4. After the deactivation file is imported, the license can no longer be used.
5. The license key will be deactivated and a "Deactivation code" will be added to the "Info" column of the license key. To finalize the deactivation, the deactivation code needs to be sent back to info@industrialcobotics.be.

CAUTION: DO NOT MAKE CHANGES TO THE FOLDER OR THE CONTENT BY MANUALLY ADDING, REMOVING, RENAMING, OR COPYING FILES! If the folder or its content is changed by any action, the validity of all the licenses will be revoked, rendering them unavailable!

3.3 License key information

On the "License keys" page, information about any imported license key can be viewed. In figure 3.1, 3 licenses have been imported. For each, the following information is given:

- Id
- Product name
- Type
- Status
- State
- Info

Each of these will be discussed in the next section.

3.3.1 Id

A license key is characterized by its "Id". When a license is being used or commuted by a client, the client will be given the "Id" of the license. When a problem with a license occurs, the "Id" of the specific license key can be sent to Industrial Cobotics. They will then be able to consult the license database and view the information about the license key in question.

Copyright © 2022 by Industrial Cobotics. All rights reserved

3.3.2 Product name

The “Product name” details for which product the license key is to be used, and is always “iSee Ui Builder”.

3.3.3 Type

There exist 2 types of license keys:

- Trial: a trial license that can be used for free for a specific amount of time. When an iSee Ui interface is created in the iSee Ui Builder with a “Trial” license, the interface can only be used in the iSee Ui URCap when the URCap is also using a “Trial” license.
- Full: a full license is a license that has been purchased. A “Full” license can be purchased for a specific or endless amount of time.

When a client requests a license, and licenses of both types are available, the License Server will first distribute the licenses of type “Full” before using the licenses of type “Trial”.

3.3.4 Status

The “Status” of a license key can be one of the following:

- None: a license key can be given this status when a problem with the license has occurred. When a license key has this status, contact Industrial Cobotics.
- Valid: a license key with a “Valid” status, is a license that can be used by a client.
- Invalid: a license key can be given this status when the imported license key is not created to be used with the computer. A license key is fixed to the computer for which a license was requested.
  A license key can also be given this status when a problem has occurred with the license revoking the validity of the license key. Making changes in the “License” folder of the application will affect the validity of all the licenses and render them invalid. Thus, the “License” folder should never be tampered with, and adding or removing licenses should only be done using the buttons in the iSee Ui License Server, as will be discussed in section 3.4.
- Deactivated: a license key is given this status when the license deactivation procedure has been completed. When a license needs to be transferred to another computer, the license can be deactivated. Deactivating a license will be discussed in section 3.4.
- Expired: a license key can be given this status when the license key was valid for a certain amount of time, and that time has expired.

Copyright © 2022 by Industrial Cobotics. All rights reserved

3.3.5 State

A license key can have one of the following states:

- Unavailable: a license key is "Unavailable" when the status is either "None", "Invalid" or "Expired". A license that is "Unavailable" cannot be used.
- Available: a license key has this state when it can be used but is not being used at the moment.
- Used: a license key has this state when it is currently being used by a client.
- Commuted: a license key has this state when a client commuted the license. A commuted license is a license that a client has "borrowed" for offline use. For more information, section 5.3.2 discusses in detail the client setting for commuting a license.

3.3.6 Info

The "Info" of a license key gives some additional information.
When a license is valid for a certain amount of time, the "Info" will give the expiration date for that license.
When a license is commuted, the "Info" will give the information about the client that has commuted the license, and the date until the commuted license is valid for that particular client. For more information, section 5.3.2 discusses in detail the client setting for commuting a license.
When a license has been deactivated, the "Info" will give the deactivation code that has to be sent to Industrial Cobotics to complete the deactivation process. For more information, section 3.4.4 discusses in detail the deactivation of a license.

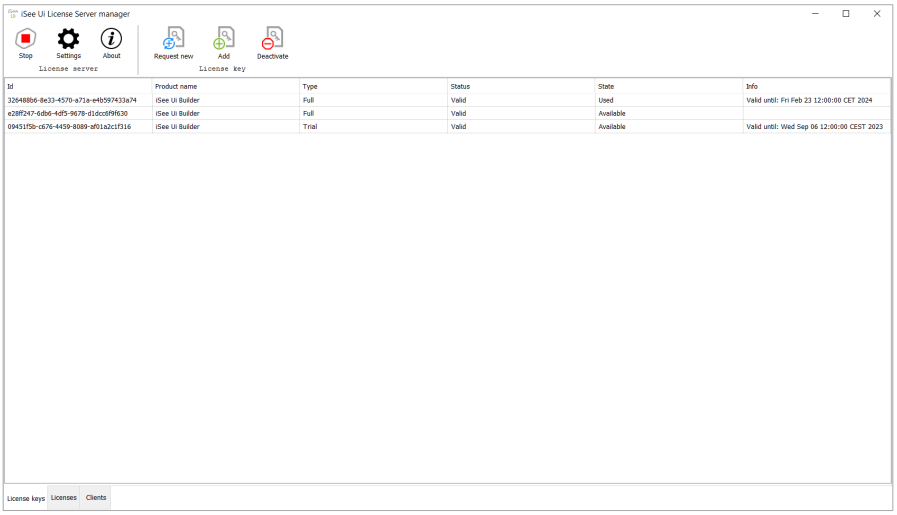
3.4 License key controls

In this section, the toolbar buttons for the "License keys" page will be discussed. These buttons provide the means to:

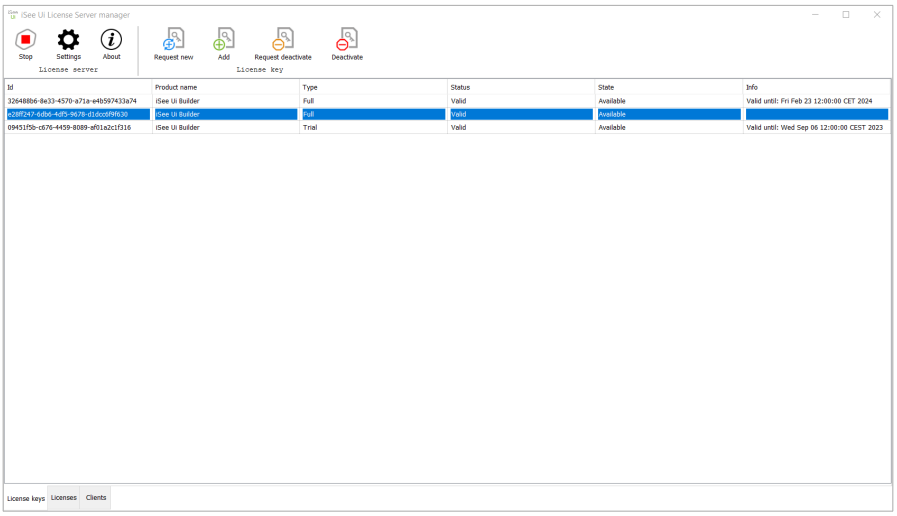
- Request a new license key
- Add a new license key
- Request the deactivation of a license key
- Deactivate a license key
- Remove a license key

The buttons can be found in the right section of the toolbar, as can be seen in figure 3.2. Not every button will always be displayed, as will be discussed in the next sections and can be seen in figures 3.2a, 3.2b, and 3.2c.

Copyright © 2022 by Industrial Cobotics. All rights reserved



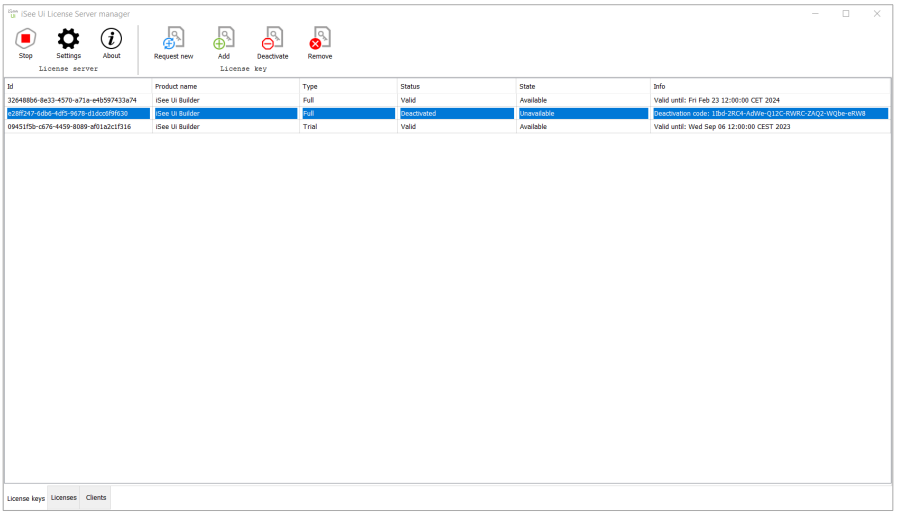
(a) No license key selected



(b) Valid “Full” license key selected

Figure 3.2: Toolbar buttons for license keys

Copyright © 2022 by Industrial Cobotics. All rights reserved



(c) Deactivated license key selected

Figure 3.2: Toolbar buttons for license keys

3.4.1 Requesting a new license

To request a new license, the button

can be pressed to create a "license_request" file, which can then be sent to info@industrialcobotics.be. When requesting a license in the iSee Ui License Server, a floating license will be requested. To request a fixed license, a license request needs to be created in the iSee Ui Builder itself. For more information, consult the iSee Ui Builder manual.

3.4.2 Adding a new license

To import a license file, the button

can be pressed. A file explorer window will open, allowing to navigate to the location where the license file is stored. Once the license has been imported, a license key will be added to the list where the information of the imported license (see section 3.3) can be viewed.

3.4.3 Request deactivation of a license

Licenses are linked to the computer on which the iSee Ui License Server has been installed and the "license_request" file was created. When a license needs to be transferred to another computer, the license needs to be deactivated following the correct procedure as described in section 3.2.

To request the deactivation of a license, the license key to be deactivated can be selected from the list. When a license key is selected, the button

will be made visible.

Copyright © 2022 by Industrial Cobotics. All rights reserved

This button will not be visible for license keys of type “Trial”. The button will also not be visible for licenses of type “Full” that were valid for a limited amount of time and have expired.

Once the “Request deactivate” button is pressed, a “deactivate_request” file can be created for the license key that was selected.
This file can then be sent to info@industrialcobotics.be, after which a “deactivate” file will be sent back.

3.4.4 Deactivate a license

Once a “deactivate” file has been received, the button

can be pressed. A file explorer window will open, allowing to navigate to the location where the deactivation file is stored. Once the deactivation file is loaded, the license key will be deactivated and a “Deactivation code” will be added to the “Info” column of the license key. The deactivation code then needs to be sent back to info@industrialcobotics.be in order to complete the deactivation procedure.

3.4.5 Remove a license

To remove or delete a license key, the button

can be pressed. This button will only be made visible when a license key is selected in the list that is either “Expired” or “Deactivated”.
Remark: When removing a license key, the license file will also be deleted from the “License” folder in the installation directory. Before removing a license, make sure to complete the entire deactivation procedure (as discussed in section 3.2) and thus also to have sent the deactivation code to Industrial Cobotics before removing the license key!

Therefore, once the “Remove” button is pressed, a confirmation window will appear, as can be seen in figure 3.3. To confirm that the license key can be removed, and thus the license file be deleted, the user has to enter “Delete” and press the “OK” button. Entering anything else, pressing the “Cancel” button, or closing the window will cancel the remove action.

Copyright © 2022 by Industrial Cobotics. All rights reserved

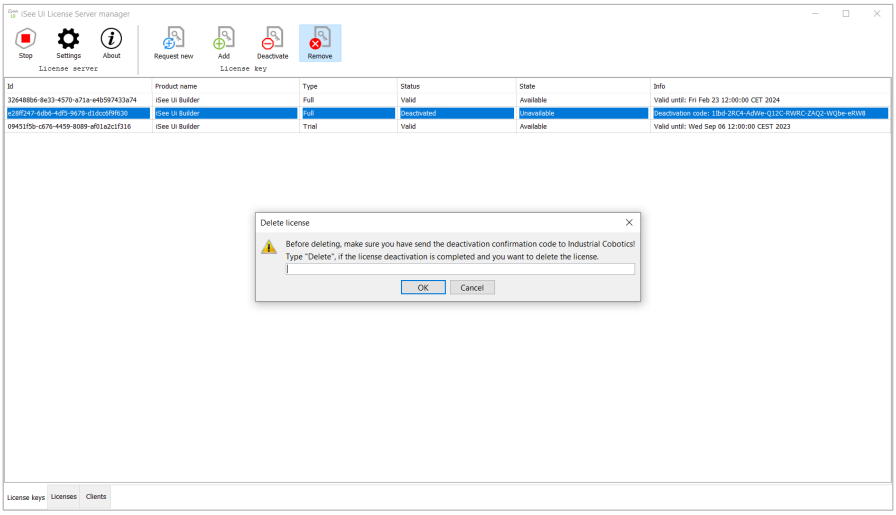


Figure 3.3: Remove confirmation window

Copyright © 2022 by Industrial Cobotics. All rights reserved

4. Licenses

On the “Licenses” page, a summary is given of all the licenses. A distinction is made between licenses of type “Trial” and “Full”, as can be seen in figure 4.1.

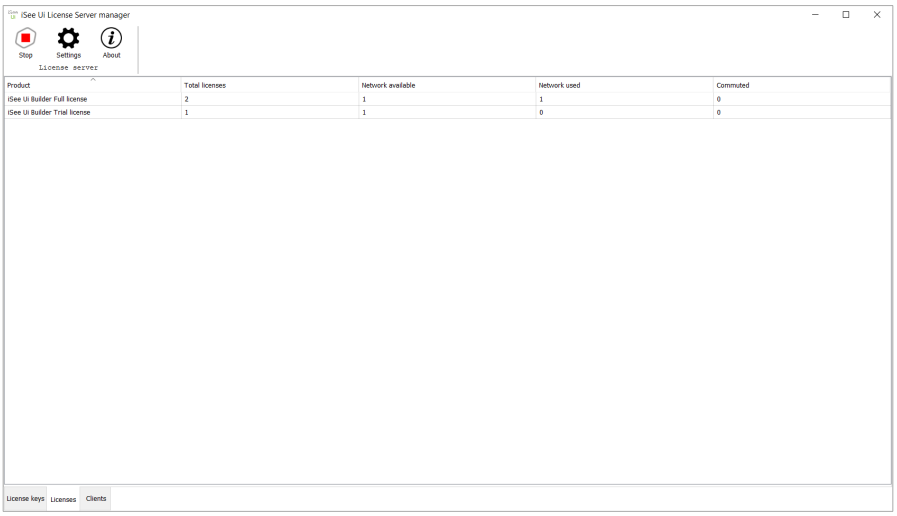


Figure 4.1: Licenses page

The number of imported licenses can be viewed in the “Total licenses” column. This is the sum of all the valid, expired, and deactivated licenses.
In the “Network available” column, the total number of valid licenses are given that are available and are not currently being used or commuted by a client.
The “Network used” column details the total number of licenses that are currently being used by clients.
The “Commuted” column gives the total number of licenses that are commuted by clients for offline use.

Copyright © 2022 by Industrial Cobotics. All rights reserved

5. Clients

On the “Clients” page, an overview is given of all the clients, as well as their information and current license usage. In section 5.1, the client data will be explained in detail. A “Client” is a user of the iSee Ui Builder software that has, at least once, tried to get a floating license. Clients can be added, given permission, or removed using the buttons in the right section of the toolbar, as will be discussed in section 5.2.
The “Clients” page can be opened by selecting the “Clients” tab in the bottom part of the window, as can be seen in figure 5.1.

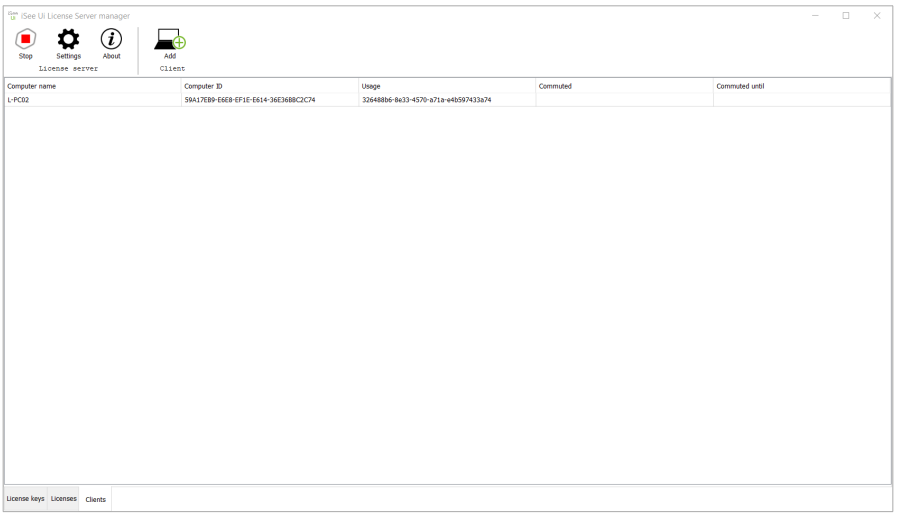


Figure 5.1: Clients page

5.1 Client information

On the “Clients” page, information about the clients and their license use can be viewed. In figure 5.1, a client has been added that currently is using a license. For every client, the following information is given:

- Computer name: the name of the computer the client is using.
- Computer ID: a created ID to make a distinction between clients. A client is considered to be “the same” if they have the same ID. The ID is determined based on the hardware the computer of the client is using.
- Usage: if the client is currently using a license, the ID of the license key is displayed here.
- Commuted: if the client has commuted a license for offline use, the ID of the license key is displayed here.

Copyright © 2022 by Industrial Cobotics. All rights reserved

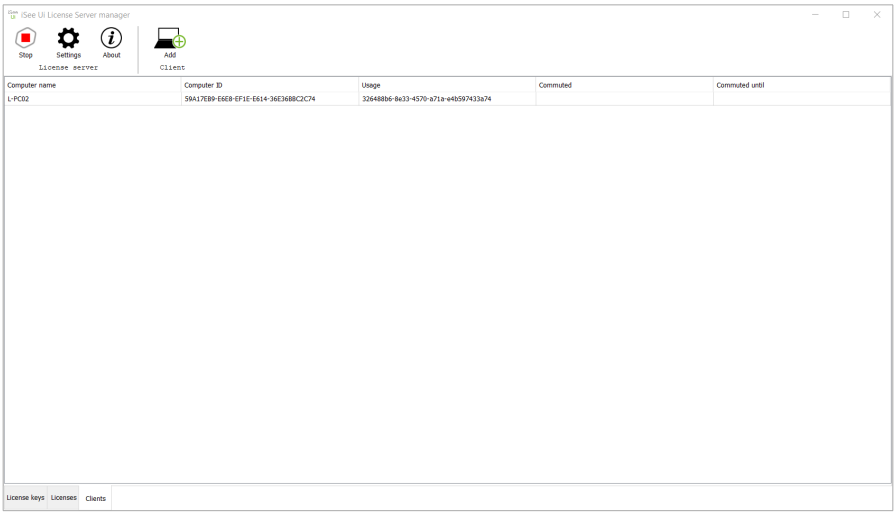
- Commuted until: when the client has commuted a license, the date until the license is valid for the client is displayed here. For more information about this valid date, consult section 5.3.2.

5.2 Client controls

In this section, the toolbar buttons for the "Clients" page will be discussed. These buttons provide the means to:

- Add a new client
- Open the client settings
- Remove a client

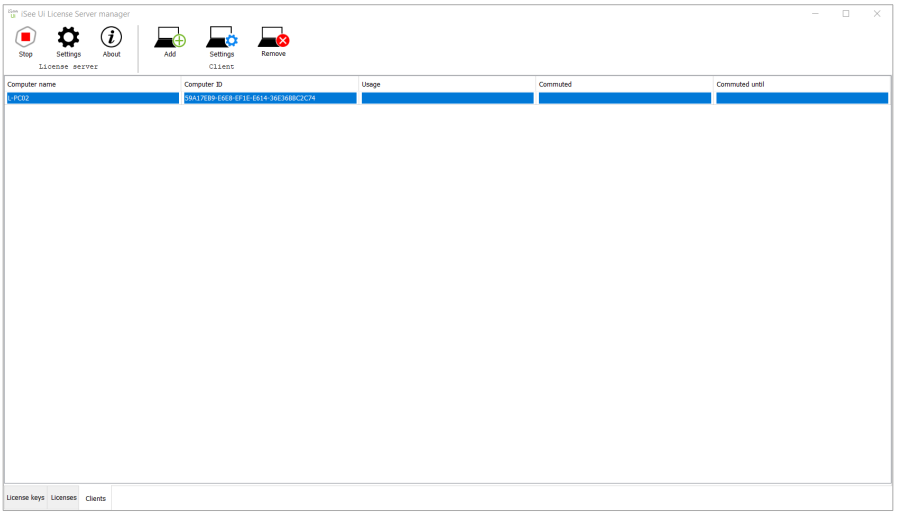
The buttons can be found in the right section of the toolbar, as can be seen in figure 5.2. Not every button will be displayed, as will be discussed in the next sections and can be seen in figures 5.2a, 5.2b, and 5.2c.



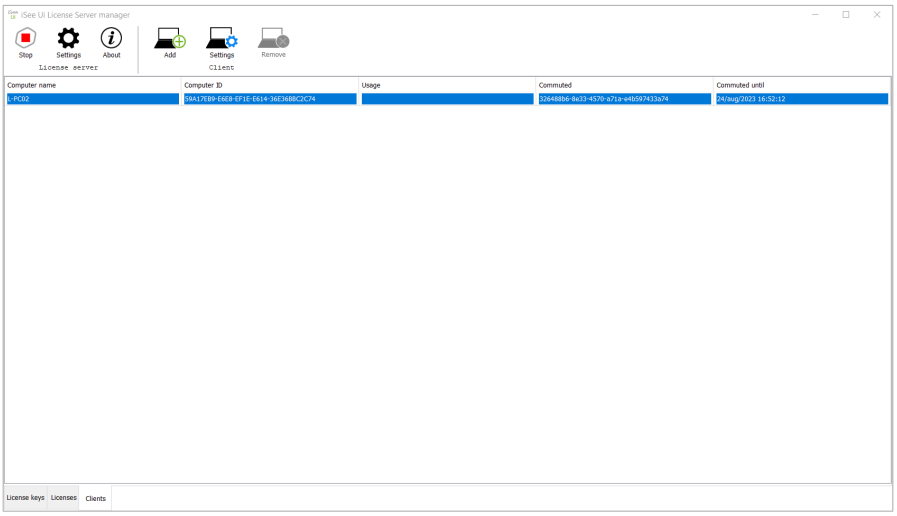
(a) No client selected

Figure 5.2: Toolbar buttons for clients

Copyright © 2022 by Industrial Cobotics. All rights reserved



(b) Client selected



(c) Client selected with commuted license

Figure 5.2: Toolbar buttons for clients

5.2.1 Add a new client

There exist 2 ways to add a new client. New clients will be added to the list automatically if they try to connect with the License Server. When a new client connects, the client will be added to the list, but will not be granted a license by default, as will be discussed in section 5.3.1.
A client can also be added to the list manually by pressing the button

. When this button is pressed, a blank client settings window will be opened, as can be seen in figure 5.3. Here the computer name of the client can be added, and the client can already be

Copyright © 2022 by Industrial Cobotics. All rights reserved

granted permission. When the client, with the specified computer name, then connects to the server, the client data will be updated with the computer ID and the client will be able to directly request a license from the server.

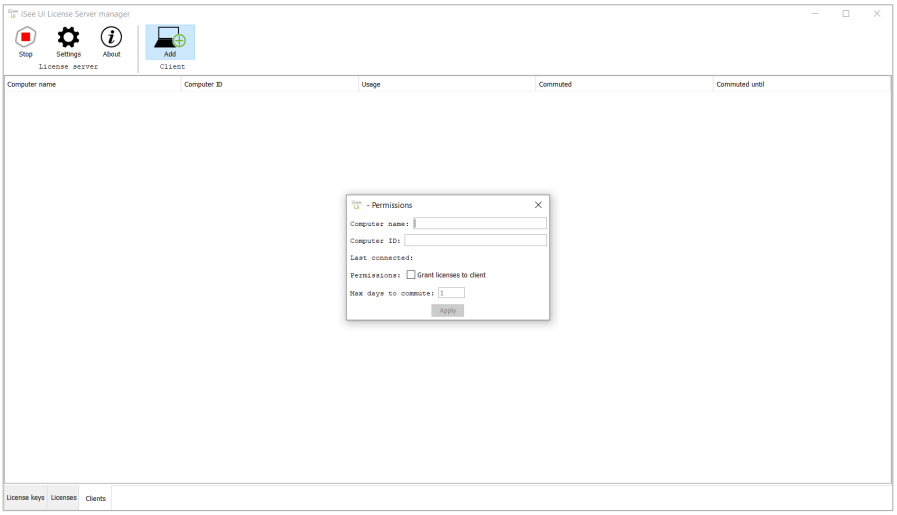


Figure 5.3: Add new client, blank settings window

5.2.2 Open the settings of a client

In section 5.3, the settings for a client will be discussed. The settings window can be opened by double-clicking the client in the list, or by selecting the client in the list and pressing the button

.

5.2.3 Remove a client

A client can be removed from the list by selecting the client in the list and pressing the button

. As can be seen in figure 5.2c, a client that currently has a commuted license, can not be removed until the commuted license has been returned to the License Server.

5.3 Client settings

In section 5.2.2, two ways to open the settings window for a client have been discussed. In this section, the client settings will be discussed in detail. In the client settings window, the client's computer information, last connected date, and connection settings can be viewed, as can be seen in figure 5.4.

Copyright © 2022 by Industrial Cobotics. All rights reserved

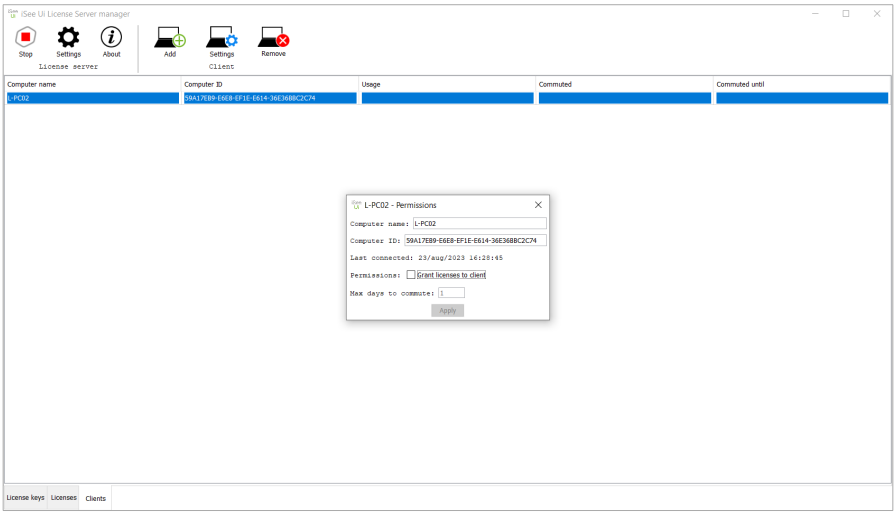


Figure 5.4: Client settings window

5.3.1 Permission for license use

In the settings window of the client, the client can be given permission by checking the provided box. When the client is given permission, the client will be able to use a license from the server if there are still licenses available. The client will also be able to commute a license, as will be discussed in section 5.3.2.
When the permission of a client has been revoked, and the client is currently using a license, the client will lose connection with the server within a few minutes. If the client has commuted a license, the client will still be able to connect to the server to return the commuted license, but will immediately lose connection once the commuted license has been returned.

5.3.2 Max days to commute

To commute a license is to request an "offline" version of the license. When a client commutes a license, the client will be granted a time-limited version of the license without having the need to connect to the server during this time period.

No more than one license can be commuted by the same client at the same time, and other clients will not be able to use the commuted license.
When a client has commuted a license, the client will not be able to request another license before the commuted license has been returned.
When the commute period has passed, the commuted license will no longer be valid for the client. The next time the client connects to the License Server, the client will automatically return the expired commuted license, after which the license will be available again to other clients.

Copyright © 2022 by Industrial Cobotics. All rights reserved

A client that is using a license, can commute that same license for offline use. The client will request a certain amount of days for commuting the license that is currently in use by the client.
In the settings window of the client, a maximum number of days can be configured for which that particular client can commute a license.

Copyright © 2022 by Industrial Cobotics. All rights reserved