

CONVAL LICENSING - SENTINEL KEYS

CONVAL can be used in conjunction with a license key only. Without a valid license CONVAL can be used in a DEMO mode within 14 days after the first program run.

CONVAL supports two designs of license keys: Sentinel LDK hardware and software keys.

We differentiate between two different license key types for both designs:

- **Local, single-user license key**, which must be installed on the PC on which CONVAL is running.
- **Network license key**, which can be installed on any server or workstation computer in the network and which provides the maximum number of simultaneous CONVAL users.

LOCAL, SINGLE-USER LICENSES

If you are using CONVAL with a local license key, you will have to install license module drivers on your PC. The CONVAL setup asks for the type of license and license key design and installs the license module drivers automatically. For a manual installation you find the license key drivers in the download section of our homepage www.conval.de.

If you use a local software license you can activate it at the first start of CONVAL by entering your product key in the CONVAL license wizard.

NETWORK CONCURRENT LICENSES

Communication with the CONVAL server (that is the computer, which contains the CONVAL network license key) is made over TCP/IP. The CONVAL server can be either a Windows workstation or a Windows server. Please ask our support team if you want to use other operating systems.

The installation of the CONVAL network license depends on the applied license type.

Please make sure, that after installation the TCP/IP port 1947 is not blocked by a firewall and the Sentinel License Manager service is running.

Sentinel Hardware Keys

If you use a red Sentinel hardware key you only have to connect it to the USB port of the CONVAL license server. The necessary drivers will install automatically by Windows update or can be downloaded from the download section of our homepage www.conval.de.

Sentinel Software Keys

Please note that generally CONVAL software license keys on virtual machines are not supported.

If you have purchased a software license you have to run the CONVAL License Activation Tool to activate the license. The Activation Tool installs the necessary drivers and services and guides you to activate your license with your product key.

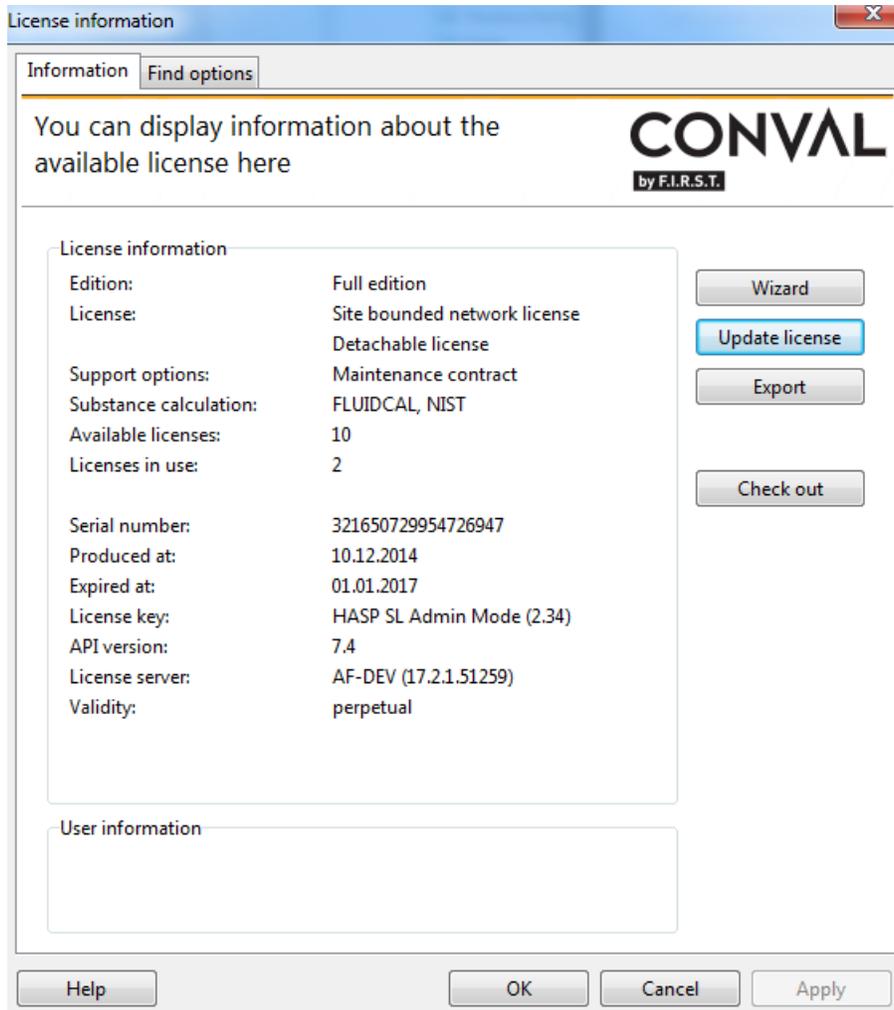
If you like to **change or rename the license server** you have to use the CONVAL Licensing Tool to **transfer the license** from the old to the new server instead of installing and activating a new license.

If you haven't got access to the Activation Tool, please contact the CONVAL team info@firstgmbh.de.

UPDATE LICENSE

If your CONVAL license has an expiration date you can update it with the license information update file *.V2C which corresponds to the license serial number. The procedure is identical regardless of whether you use a local or a network license. No special rights are necessary on the license server.

To apply the license update open the CONVAL license information dialog, select the [Information] tab, click on the [Update license] button, and follow the instructions.



LICENSE MANAGER

Together with the license key drivers a web-based license manager, the Sentinel Admin Control Center is installed.

To start it, just type <http://localhost:1947> in your internet browser.

This application enables you to manage access to software licenses and features, to control detachable licenses, to control sessions, and to diagnose problems.

The Admin Control Center enables you to monitor the following:

- All the Sentinel protection keys that are currently available on the network server, including their identity, type, and location
- The number of users currently logged in to a protection key, and the maximum number of users allowed to be simultaneously logged into that specific key
- The Features to which each protection key allows access, and any restrictions that apply to the feature
- The users who are currently logged into a specific protection key, including detailed login information

Products of the F.I.R.S.T. GmbH have always the vendor no. KIZWX or 111284.



Sentinel Admin Control Center

Options

Sentinel Keys

Products

Features

Sessions

Update/Attach

Access Log

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Products Available on DIRKCONVAL9

#	Product Name	Vendor	Location	Detached	Available	Actions
1	CONVAL Trial	KIZWX	Local	-	-	Features
2	CONVAL	KIZWX	Local	-	-	Features

LOCAL LICENSE KEY

 If there are issues with the local Sentinel license key you should make sure to have the correct “Find options” in the CONVAL “License information” section and to have installed the recent versions of the CONVAL program and the license key driver. Both can be found on the download section of our homepage www.conval.de.

After having installed the Driver correctly, the red light of the USB license module should be always on, not flash. Otherwise the license module might be broken.

Use the Sentinel Admin Control Center <http://localhost:1947> to check the availability of CONVAL license keys.

FIND OPTIONS

To optimize the access to the license key, you may select the following options:

- Please select “Sentinel Key” in the “License management” section
- Check the box “Find only local licenses” and the correct “Editions” settings

If the license is still not being found please select “Find only the selected number” and enter the serial number of your license.



The screenshot shows the "License information" dialog box with the "Find options" tab selected. The dialog contains the following elements:

- Information** and **Find options** tabs.
- Text: "You can control the search for available licenses here" and the **CONVAL by F.I.R.S.T.** logo.
- License management** section: Sentinel Key, Evaluation version, and a **Wizard** button.
- Sentinel - advanced find options** section: Find only selected serial number (with an empty text input field), Find only local licenses, and Name or IP address of the license server (with an empty text input field). There are also **Check port** and **Register** buttons.
- Editions** section: Full edition, I+C edition, Plant engineering edition, Training edition, and Special edition.
- Buttons at the bottom: **Help**, **OK**, **Cancel**, and **Apply**.

NETWORK LICENSE KEY



If there are issues with the Sentinel network license key you should make sure to have the correct “Find options” in the CONVAL “License information” section and to have installed the recent versions of the CONVAL program and the license key driver. Both can be found on the download section of our homepage www.conval.de.

After having installed the Driver correctly, the red light of the USB license module should be always on, not flash. Otherwise the license module might be broken.

Use the Sentinel Admin Control Center <http://localhost:1947> to check the availability of CONVAL license keys on both computers, the license server and the client computer.

LICENSE SERVER

On the license server make sure, that the access from remote clients is allowed in the Sentinel Admin Control Center Configuration section.

Check default values, otherwise click [Set Default] and then click [Submit] button.



Sentinel Admin Control Center

Options

- Sentinel Keys
- Products
- Features
- Sessions
- Update/Attach
- Access Log
- Configuration
- Diagnostics
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Configuration for Sentinel License Manager on DIRKCONVAL9

Basic Settings	Users	Access to Remote License Managers	Access from Remote Clients	Detachable Licenses	Network
<p>Allow Access from Remote Clients <input checked="" type="checkbox"/> You may experience a delay of a few minutes before your changes take effect.</p>					
Access Restrictions		<p>allow=all</p>			
<p>Show Recent Client Access</p>		<p>The entries are evaluated in the order in which they are specified. As soon as a match is found, evaluation stops. allow=all is implicitly added to end of list</p>			
		<p>Submit Cancel Set Defaults</p>			

CLIENT COMPUTER

FIND OPTIONS

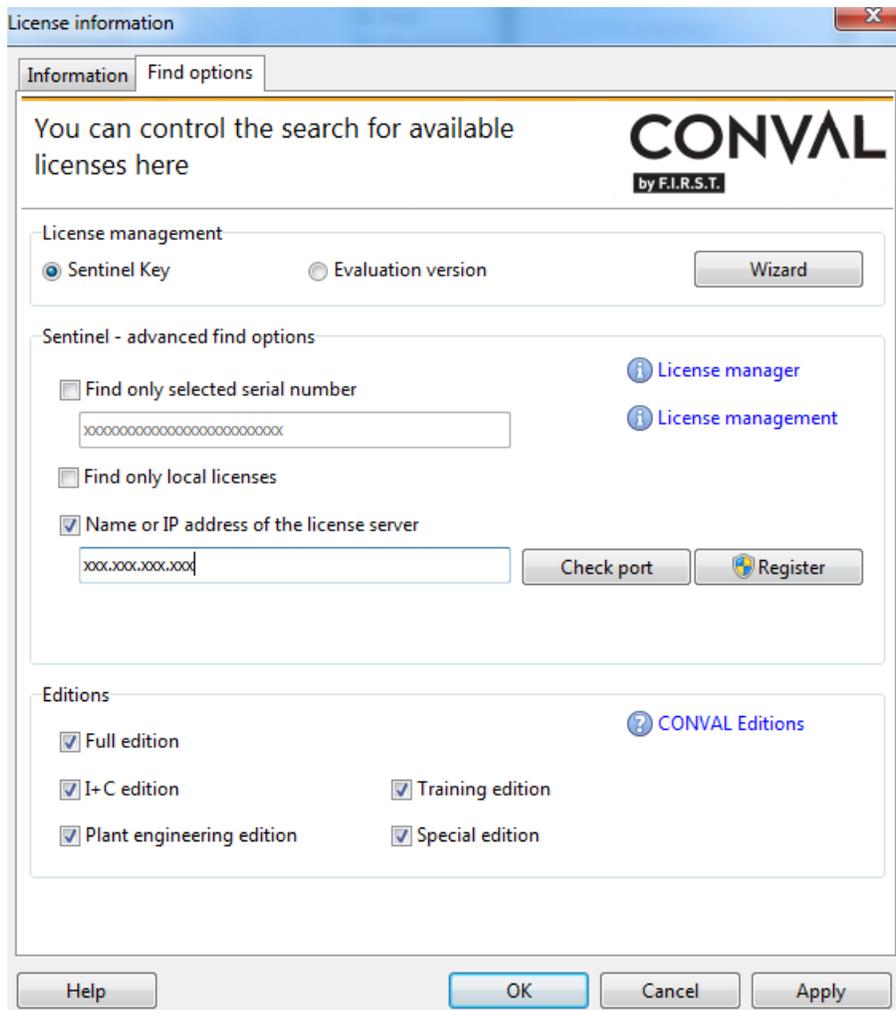
To optimize the access to the license key, you may select the following options:

- Please select "Sentinel Key" in the "License management" section
- Uncheck the box "Find only local licenses" and select the correct "Editions" settings
- Enter the name or IP address of the license server

After having entered these data, you can check the communication via the TCP/IP port 1947 with the license server by pressing the [Check port] button.

If the network license cannot be found, you should register the name or IP address of the license server in the Sentinel license manager. This could be done directly by pressing the [Register] button in CONVAL (Windows administrator rights assumed) or in the Sentinel Admin Control Center as described below. The [Register] button is disabled, when the license server is already registered in the search parameters list of the license manager.

If the license is still not being found please select "Find only the selected number" and enter the serial number of your license.



SENTINEL ADMIN CONTROL CENTER

On the client computer make sure, that the access to remote clients is allowed in the Sentinel Admin Control Center Configuration section.

Check if the check box [Allow Access to Remote Licenses] is checked, enter the License Server Name in the Specific Search Parameters field, and click [Submit] button.



Sentinel Admin Control Center

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Configuration for Sentinel License Manager on DIRKCONVAL9

Basic Settings	Users	Access to Remote License Managers	Access from Remote Clients	Detachable Licenses	Network
<p>Allow Access to Remote Licenses <input checked="" type="checkbox"/> You may experience a delay of a few minutes before your changes take effect.</p>					
<p>Broadcast Search for Remote Licenses <input type="checkbox"/></p>					
<p>Aggressive Search for Remote Licenses <input type="checkbox"/></p>					
<p>Remote License Search Parameters</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;"> <pre style="font-family: monospace; font-size: 0.9em;">FE80:0:0:0:78BC:61EE:8C09:4D55%10 AF-DEV SN_1614982 licence.first</pre> </div>					
<p><input type="button" value="Submit"/> <input type="button" value="Cancel"/> <input type="button" value="Set Defaults"/></p>					

Define the specific machines that may be searched by this machine for remote Sentinel License Managers in the “Specify Search Parameters” section. You must enter information in this field if you have not selected the Broadcast Search for Remote Licenses check box, as follows:

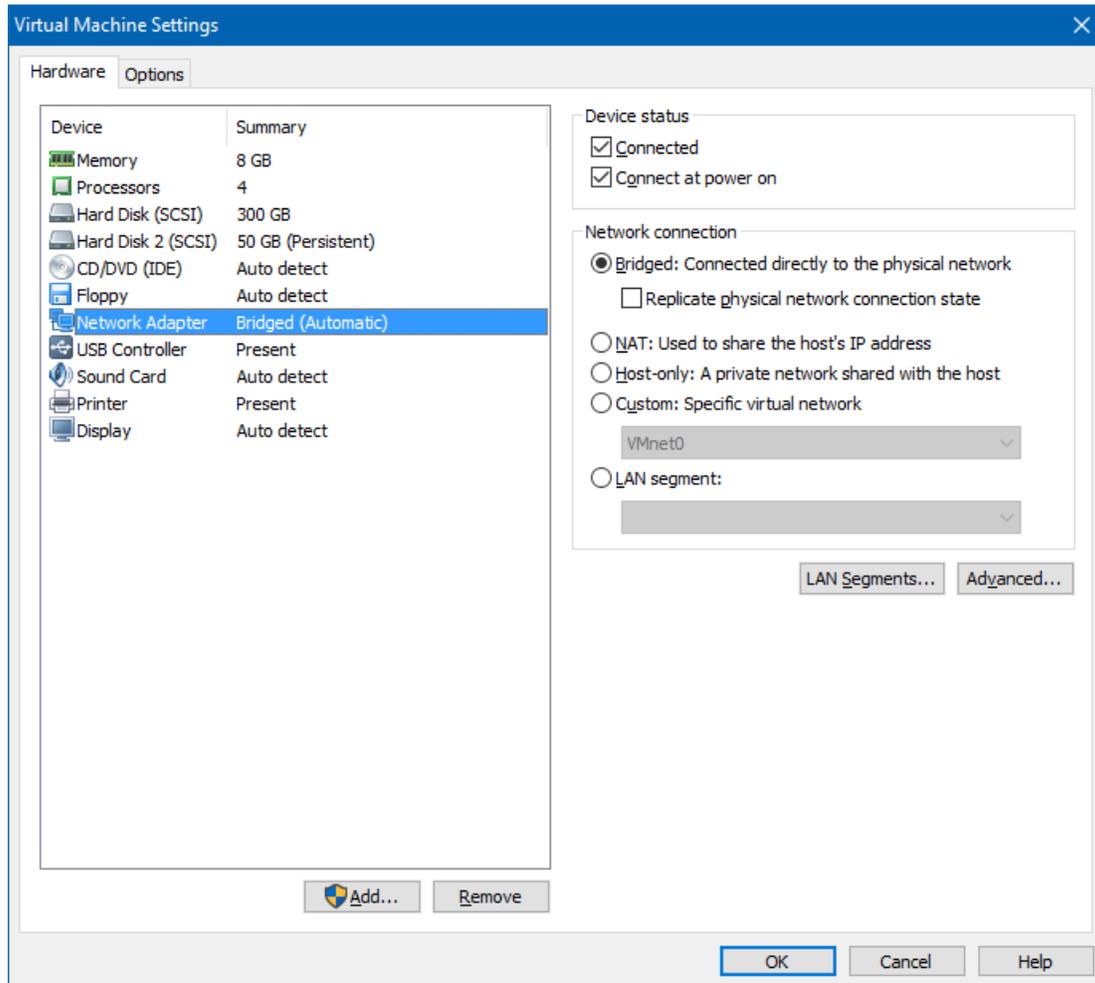
- Specify data as IP addresses (for example, 10.1.1.17),
- Broadcast addresses (for example, 10.1.1.255), or machine names (for example, hklm001.ecomp.com)
- When using the IPv6 protocol, use the IPv6 address format. For example, type FF02::1 to access all remote Sentinel License Managers that are part of the default local group defined in the IPv6 subnet.

Each entry must be on a separate line

VIRTUAL LICENSE SERVER

Generally CONVAL software license keys on virtual machines are not supported. If you cannot use a hardware based license key on your virtual machine, please contact our [support team](#).

To ensure the communication to the CONVAL clients, the Network connection mode should be bridged. If it is NAT or Host-Only, the access from outside is not supported properly.



SUPPORT

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