

INSTALLATION INFORMATION CONVAL 11

SYSTEM REQUIREMENTS

PROCESSOR

1-GHz-Processor or higher

MEMORY

At least 4 GB RAM

DISPLAY

1024x768 or higher resolution monitor

HARD DISK

Space required on hard disk approx. 500 MB

OPERATING SYSTEM

Windows 11 (22H2), Windows 10 (22H2, 21H2) - Windows Server 2022, 2019, 2016

OFFICE INTEGRATION

Microsoft 365, MS Office 2021, 2019, 2016 (32- and 64-bit versions)

INSTALLATION

Regardless of whether you use a local or a network license, you may install the CONVAL program local on each computer or you may use the network installation.

A local installation offers the best performance while a network installation can be updated or maintained easier.

You will need Administrator rights in order to run the installation.

LOCAL INSTALLATION

Start the installation procedure for CONVAL with setup.exe and choose **Typical** or **Custom** as setup type.

INSTALLATION IN A NETWORK

Start the installation procedure for CONVAL with setup.exe and choose **Network** as setup type.

Besides the CONVAL program the network setup installs a Client Setup in a subfolder of the target folder having the same name.

You must start the Client Setup on all the computers on which you want to use CONVAL.

The Client Setup enters settings in the Start menu and installs files in the Windows system folder.

SILENT SETUP

You may perform the installation also in silent mode. In order to do this you find closer [information](#) in the download section of our homepage www.conval.de.

WORKING IN TEAMS

Regardless of whether you perform a network installation or a local installation, CONVAL can support users working in teams.

In the **Program Options** in the **Folders** section, you can specify the folder in which the device and substance databases are located, and the folder for the public templates and schemes. With a network installation, there is normally no need to make any changes here. With a local installation, you can specify network paths for shared databases, templates, and schemes.

REQUIRED ACCESS RIGHTS

CONVAL users require at least read permissions in the database folder. If users are also to be able to execute the automatic update function for device and substance data, or to enter new devices and substance data, they need additional write and execute permissions.

In the folder for public templates and schemes, users should always have both read and write permissions to ensure smooth operation.

CONVAL LICENSING

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 installation.

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 licenses**, which must be installed on the PC on which CONVAL is running.
- **Network concurrent licenses**, 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 license and license key design and installs the license module drivers automatically. For a manual installation you can 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 license server (that is the computer, which contains the CONVAL network license key) is made over TCP/IP. The license 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.

The CONVAL license server supports the following platforms:

Windows

Windows Insider Preview builds are not supported. The latest service packs and security updates must be installed.

- Windows Server 2016
- Windows Server 2019
- Windows Server IoT 2019
- Windows Server 2022
- Windows Server IoT 2022
- Windows 10 IoT Enterprise 2019 LTSC
- Windows 10 IoT Enterprise 2021 LTSC
- Windows 10 21H2
- Windows 11 22H2

Virtual Machines

- Parallels Desktop 18 for Mac
- VMware Workstation 16
- VMware ESXi 6.7, 7.0
- Hyper-V Server 2019 (SL only)
- Xen Project 4.16
- KVM (RHEL 9, Ubuntu 22.04 Server, Debian 11.4)
- Microsoft Azure
- VirtualBox 6.1.x
- Docker (Linux) containers, including under Kubernetes
- LXC containers

SENTINEL HARDWARE KEYS

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

SENTINEL SOFTWARE KEYS

Please note that local 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 the license with your product key.

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

Important: 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.

ISSUES WITH CONVAL LICENSE KEYS

If CONVAL is unable to find a license key, even though you have installed everything correctly, you find additional information at [CONVAL licensing](#).

COM INTERFACE

CONVAL features direct interfaces that allow it to be used as a COM server under Windows. That allows using the whole functionality of CONVAL by a large number of Windows applications, for example MS Excel in conjunction with VBA, and CONVAL's integration into other products.

CONVAL must be registered as a COM server in the operating system before you can use this interface, however. It is registered automatically when it is installed; or you can register it manually using the "Repair Registration" command in the Start menu in the CONVAL Group.

In the documentation area you will find a type library and detailed instructions on how to use the COM server.

TERMINAL SERVER

If you like to install CONVAL in a terminal server environment, you should consider the following:

- In a terminal server environment CONVAL can be used with a network license only. The license server cannot be installed in a terminal server session but only on the terminal server itself or on any other server in the network.
- If you install CONVAL on a terminal server, please select **standard** as type of installation, the type of installation **network** is used for the installation on a network share only.
- All settings in CONVAL (such as search options for the license key) are stored user specific in the Windows registry at
`[HKEY_CURRENT_USER\Software\F.I.R.S.T. GmbH\CONVAL 11]`.
- If no user specific entry is present, CONVAL looks for settings in the registry
`[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\F.I.R.S.T. GmbH\CONVAL 11]`

A simple option of standardizing settings in CONVAL for all users consists of

- First adapt all settings for one user
- Close CONVAL
- Export the registry section of the user to a reg file
- Change the entry in the reg file from [HKEY_CURRENT_USER] to [HKEY_LOCAL_MACHINE]
- Finally import the modified reg file

Templates and schemes of CONVAL can be stored both in a public and in a private section.

You can adjust the folder for the public templates and schemes directly at the installation of CONVAL or later in the program options. The recommended save location is a network share. If you change the folder in the program options, the contained files are not copied. You have to do that manually.

The folder for **public templates** in CONVAL can be redirected with the help of a registration entry:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\F.I.R.S.T. GmbH\CONVAL 11\MainOptions]
"TemplatesPath"="C:\\Users\\Public\\Documents\\F.I.R.S.T. GmbH\\CONVAL 11\\Templates\\"
```

Replace `C:\\Users\\Public\\Documents\\F.I.R.S.T. GmbH\\CONVAL 11\\Templates\\` by a commonly used folder, where all users have read and write permissions.

In CONVAL, **private templates** and **print previews** are stored in subfolders of the %AppData% folder:

```
%AppData%\\F.I.R.S.T. GmbH\\CONVAL 11\\Templates and  
%AppData%\\F.I.R.S.T. GmbH\\CONVAL 11\\Previews.
```

The folder %AppData% used in CONVAL - that is by default `C:\\Users\\<user>\\AppData\\Roaming` - can be redirected by a registry entry:

```
[HKEY_LOCAL_MACHINE\\SOFTWARE\\Wow6432Node\\F.I.R.S.T. GmbH\\CONVAL 11\\MainOptions]  
"AppDataPath"="C:\\Appdata"
```

Replace `C:\\Appdata` by a folder, where the user has read and write privileges.

SUPPORT

If you have any questions, comments or problems, please either call us up directly or send an e-mail:

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