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Window – “Apps”

The “Apps” window manages apps on the ctrlX device and provides a better overview. New apps can be installed on the ctrlX device, installed apps can be updated, uninstalled or disabled.

The app overview of the window provides support during these actions. The app overview shows all apps installed on the ctrlX device or saved as "stock" in the internal app storage of the device (not installed).

If the ctrlX device is connected to the ctrlX Store, the app shows additionally those apps provided as web download from the ctrlX Store, see [ctrlX Store in the web](#)

For an overview on the available apps:

- ↳ Licenses – Overview

Possible actions in the window

- ↳ Uploading apps to the app memory of the ctrlX device
- ↳ Installing apps on the ctrlX device from the device-internal app storage
- ↳ Installing apps from the engineering PC on the ctrlX device
- ↳ Installing apps on the ctrlX device from the ctrlX Store
- ↳ Updating apps
- ↳ Changing app version
- ↳ Disabling apps
- ↳ Enabling apps
- ↳ Downloading apps from the ctrlX device
- ↳ Uninstalling apps
- ↳ Reinstalling apps
- ↳ Deleting apps from app storage

Dependency indicator

When installing apps on a ctrlX device, so-called dependency conflicts can result that can lead to the installation being canceled or to limited operation of an installed app. Such a conflict can be caused due to a missing license, missing required apps or unfulfilled system requirements for example. In this case, the integrated dependency indicator of the ctrlX device diagnoses the cause and provides clear information on the existing dependency.



Dependencies of already installed apps are displayed in the app detail view in the “*Dependencies*” tab, see: ↳ [Extended app overview](#)

Call

There are two options to open the “Apps” window in the side navigation:

- In the window *Home* → click on *[+ install an app]*
- In the window *Settings* → click on *[Apps]*



Window description

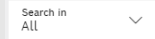

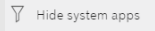
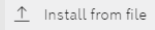
The window “Apps” is divided into two sections:






- **Command bar** (below the status bar)
- **App overview** (below the command bar)

Command bar

The command bar provides the following functions and commands to use apps:

| GUI element | Description |
|---|--|
|  | The symbol indicates that the ctrlX device is not connected to the ctrlX Store. In this case, no apps are provided in the app overview for download from the ctrlX Store. |
|  | Search field for keyword search in the app overview. Useful if multiple apps are shown, e.g. if no display filter was set and apps from all sources are shown in the overview (installed apps, saved apps, apps in the ctrlX Store). |

| GUI element | Description |
|---|--|
|  | <p>Display filter with the following options</p> <ul style="list-style-type: none"> ■ “All”: All available apps are shown in this setting (installed apps, saved apps, apps in the ctrlX Store) ■ “Installed apps”: Only apps installed on the ctrlX device are shown. ■ “App storage”: Only apps saved in the app storage on the ctrlX device are shown (not yet installed). ■ “ctrlX OS Store”: Only apps for the device provided for download in the ctrlX Store are displayed. ■ “Unlicensed apps”: Only apps without available license are shown. |
|  | <p>Buttons to show/hide system apps (hidden in the default setting).</p> |
| <p>Alternatively</p> | <p>System apps are part of the ctrlX OS Runtime and cannot be uninstalled or disabled. This is also symbolized by the "lock symbol" in front of the app name.</p> |
|  | <p>The display of the system apps can for example also be used to check whether updates are available. System apps can be updated with the respective user rights.</p> |
|  | <p>Apps can be installed directly as file from the engineering PC to the connected ctrlX device, e.g. if the ctrlX device and the ctrlX Store are not connected.</p> <p>The button starts the initialization. First, the file browser opens to select the app files on the engineering PC.</p> <p>Advantage: Multiple apps can be installed at the same time.</p> |

| GUI element | Description |
|--|---|
|  App storage | <p>Apps can be saved in the device-internal app storage on the ctrlX device without installing the app on the device. This can be reasonable, but note that memory space is allocated on the internal ctrlX device memory.</p> <p>Select the button to show all apps in the app storage of the ctrlX device (empty upon delivery).</p> <p>Use cases:</p> <ul style="list-style-type: none"> ■ To prepare for the commissioning of the ctrlX device. ■ Storing apps on the ctrlX device and installing them when required, e.g. to enable optional machine functions. |
|  Update all apps | <p>The system checks whether there are updates for the installed apps via the button.</p> |
|  Update UEFI Bios | <p>Perform UEFI BIOS update, see: \ Updating the UEFI BIOS of the ctrlX device</p> <p>Only displayed if a BIOS update is available for the ctrlX device.</p> |
|  Upgrade ctrlX OS | <p>Upgrade the ctrlX OS basis system. Only available if multiple prerequisites are met, see: \ Upgrading the ctrlX OS basis system</p> |
|  Settings | <p>The button opens the <i>“Settings”</i> dialog to configure the options for the app installation and the app storage, see:</p> <p>\ “Dialog - <i>“Settings”</i>”</p> |

App overview

The app overview shows all apps either installed on the ctrlX device or ready for installation.

The app overview is divided into two categories:

- **Installed apps**
Shows all apps already installed on the ctrlX device
- **Available apps**
Shows apps provided for the ctrlX device for the installation.
The following sources are considered:
 - Apps saved in the device-internal app storage of the ctrlX device
 - Apps provided in the ctrlX Store to be downloaded for the ctrlX device (only if there is an active connection to the ctrlX Store).

App representation in the app overview

Apps are shown as tiles in the app overview including additional information and interactive buttons:

- App version
- App name
- Brief app description
- Apps that are not yet licensed have a license symbol:
 - **Red icon**
The required license to operate the instance is not available
 - **Yellow symbol**
Indicates that the app provides internal options which are not yet licensed, see:
 ↳ “Licenses – Overview”
- System apps are labeled with a lock symbol (locked for uninstalling and disabling)
- Interactive buttons (depending on the app status):
 - Installing app
 - Uninstalling app
 - Enabling app

Extended app overview

To show an extended app view with additional information and actions, click on one of the app tiles in the overview:

- **Tab “Description”**
Brief description on the app and its function (if supported by the app).
- **Tab “Dependencies”**
Shows requirements and permissions required to operate the app, as well as dependencies from or to other apps on the ctrlX device indicating the required app software version (min/max).
- **Tab “Available licenses”**
Shows the current licensing status on the ctrlX device:
 - License to operate the app if required
(licenses already installed on the ctrlX device have a green check)
 - If available, optional "In-app licenses" for the functional extension
(unlicensed in-app options are labeled with a yellow symbol)

Possible actions in the extended app overview (depending on the app status):

- Disabling app
- Enabling app
- Restarting app (the action is only available if the app contains services that can be restarted)
- Uninstalling app
- Updating app
- Reinstalling app
- Downloading app
- Licensing
The displayed button opens the “Licenses” window. In this window, use the Rexroth licensing center to manage the app licenses and to transfer them to the target devices, see:
 ↳ **Window – “Licenses”**

To close the extended view, select the [X] button.

Updating the UEFI BIOS of the ctrlX device



Depending on the hardware architecture, this functionality may not be available, for example on ctrlX devices with ARM architecture that do not have a UEFI BIOS.


The UEFI BIOS of the ctrlX device can be updated if required.

New versions of the UEFI BIOS are published in the Hardware Support app.

The current version of the UEFI BIOS of the ctrlX device is displayed in the web interface in the information on the electronic type plate, see:

[side navigation](#) → [Settings](#) → [window System Information](#) → [widget Typeplate](#)

Performing UEFI BIOS update

1. Switch the ctrlX device to the "Service" operating state
2. Install the Hardware Support app with the new UEFI BIOS
3. In the header of the window *"Apps"*, click on .
 - ⇒ You are logged out and the update is started.
 - ⇒ The update takes a few minutes. Switch on the device during the update!
4. After completing the upgrade, you are automatically redirected to the login screen.

Upgrading the ctrlX OS basis system

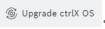


The ctrlX OS basis system is the part of ctrlX OS responsible for the installation and execution of apps and services. It provides libraries, runtime environments and other dependencies required to execute apps. It is provided by the "coreXX" app (e.g. "core20"). This is a system app and can therefore not be uninstalled.

The basis system can be updated. The following prerequisites have to be met:

- The new basis system app version to be used as future basis system has to be installed on the ctrlX device before the upgrade.
- All system apps have to be installed in the latest version.
System apps:
 - Automation Core
 - bare
 - Device Admin
 - Hardware Support
 - Realtime Kernel
 - Setup
 - snapd (min 2.61.2)
 - Solutions
 - Version Guard

Performing OS basis system upgrade

1. Switch the ctrlX device to the "Service" operating state
2. In the header of the window *"Apps"*, click on  .
 - ⇒ You are logged out and the upgrade is started.
 - ⇒ The upgrade takes a few minutes. Do not switch off the device during the upgrade!
3. After completing the upgrade, you are automatically redirected to the login screen.
4. The new OS basis system app is now active.
 - ⇒ The old OS basis system app can be uninstalled from the ctrlX device.