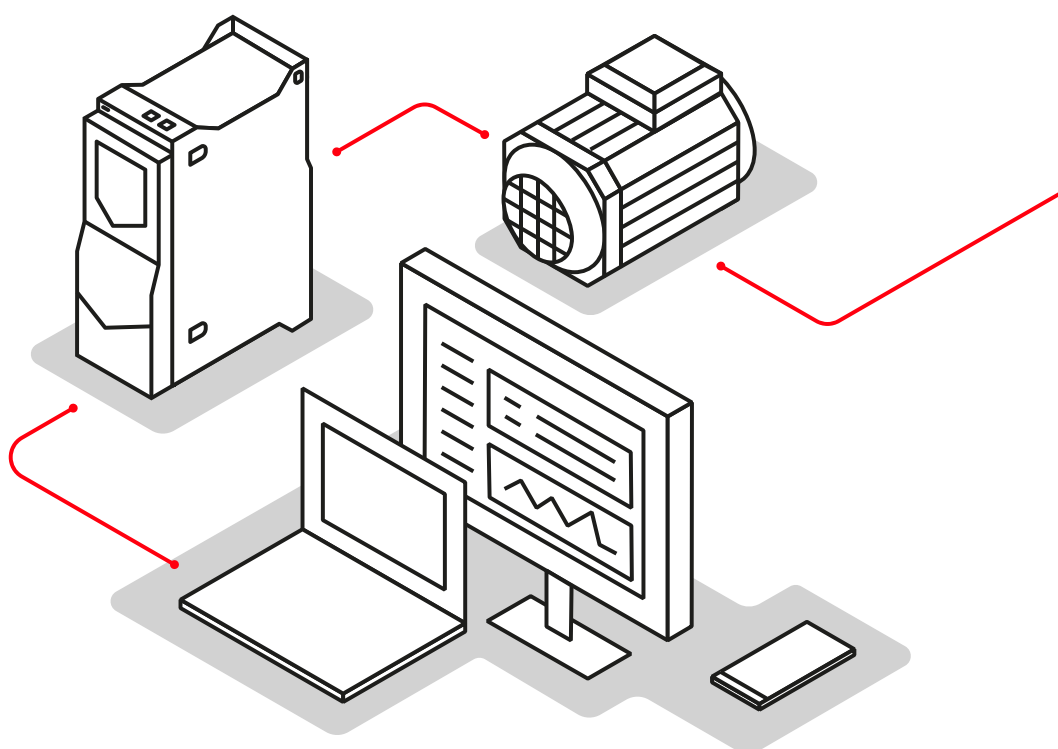


ABB DRIVES

Drive Composer 3

Start-up and maintenance PC tool

User's manual



Drive Composer 3

Start-up and maintenance PC tool

User's manual

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1

Introduction

Contents of this chapter

This chapter contains information about the purpose, applicability, compatibility, and target audience. It contains a list of terms and abbreviations used in the manual.

Purpose of the manual

This manual gives information about the Drive Composer 3 software and instructs how to commission and maintain ABB drives.

Applicability

This manual applies to the Drive Composer software, version 3.6. You can download from the [ABB web page for software tools](#) (in the Downloads section) or from the [ABB library](#).

Compatibility

The Drive Composer 3 PC tool supports all ABB common-architecture drives and devices. The tool identifies connected drives by their type code and firmware version.

Note: The tool shows only features that apply to the drive. If a feature does not apply to a drive type, the tool does not show that module.

Supported drive families:

ACS	ACH	ACQ	Others
ACS180	ACH180	ACQ531	DCS580
ACS280	ACH480	ACQ580	DCS880
ACS380	ACH531	ACQ80	DCT880
ACS380-E	ACH580		HES880
ACS480			
ACS530			
ACS560			
ACS580			
ACS580MV			
ACS860			
ACS880			
ACS6080			

Target audience

The reader is expected to be an automation or electrical engineering professional familiar with drive products and their commissioning and operation, including the parameter system of ABB drives. A basic knowledge of the Microsoft Windows operating system is needed.

Terms and abbreviations used in this manual

Term	Explanation
Assistant	Provides predefined steps for setting drive parameters. For example, the basic start-up assistant.
Assistant control panel	A control panel with a USB connector enabling a PC tool connection for common architecture drives. The assistant control panel is a generic name, for example, ACS-AP-I and ACS-AP-S panels.
Auto scale	Y-axis scaling is set automatically when this button is enabled. User-defined Y-axis limits are then disabled. Note: Zooming is not possible in the Autoscaling mode.
Backup	Backup of the drive. It can be created with Drive Composer or with the control panel*. The Drive Composer backup file (.dcbak) includes all parameters, adaptive program, and user sets. With a backup file from an old drive, you can quickly configure a new drive or restore the configuration after a firmware update. Note: Backup file does not include firmware, IEC program, or license. * Refer to the control panel's user manual.
Bit mask of monitoring	You can filter bits of the Status word and monitor them individually.
Common architecture drives	For example, ACS880, DCS880, ACS580, ACH580, ACQ580, ACS560 and ACS480.
Crealizer™	Open software platform integrated into ABB drives. It supports advanced programming for custom functionality.
Event logger	Consists of faults, warnings, and pure events. Only faults stop the drive. Latest faults and all Electronic Data Sheet arms are also seen in the parameter interface Group 4, Warnings and Faults.
FENA-xx	Ethernet adapter module for ABB drives.
FPNO-xx	PROFINET fieldbus adapter module for ABB drives.
LOC/REM	LOC denotes local control of the drive, either with an Assistant control panel or with the Drive Composer PC tool. REM denotes that the drive is remotely controlled by the fieldbus master PLC or by I/O connections.
Lock/Unlock parameter	A drive can lock a parameter. You can only view the parameter values, but cannot modify them.
Monitoring	You can set parameters or signals to the monitor window. Values are collected with the sampling interval and drawn to a window.
Online/Offline	In Online mode, the PC tool is connected to the drive. In Offline mode, the PC tool is not connected with the drive, and it is not possible to open parameter files, save monitored data, etc.
Pure event	In addition to warnings and faults, there are pure events that are only recorded in the event logs of the drive.
Refresh the parameter	Parameter values are updated when a group is opened. You can set parameters for the Auto-update mode or refresh the value manually. Signals are always updated automatically. In the parameter list, signals are shown in bold text.
TLS	Transport Layer Security. Protocol to protect data transfer on an Ethernet connection.

Related documents

Drive firmware manuals and guides	Code (English)
Refer to the appropriate drive firmware manuals in the ABB library.	-
Option manuals and guides	
FENA-01/-11/-21 Ethernet adapter module user's manual	3AUA0000093568
FMBT-21 Modbus/TCP adapter module user's manual	3AXD50000158607
FEIP-21 EtherNet/IP fieldbus adapter module user's manual	3AXD50000158621
FPNO-21 PROFINET fieldbus adapter module user's manual	3AXD50000158614
FSPS-21 PROFIsafe safety functions module user's manual	3AXD50000158638
FDPI-02 diagnostics and panel interface unit user's manual	3AUA0000113618
CDPI-01/-02 panel bus adapters user's manual	3AXD50000009929
Tool manuals	
ACS-AP-I, -S, -W, -WP and ACH-AP-H, -W Assistant control panels user's manual	3AUA0000085685
Drive Composer 3 Start-up and maintenance PC tool user's manual	3AXD50001210588
Adaptive programming application guide	3AXD50000028574

2

Overview of Drive Composer 3

Contents of this chapter

This chapter includes the main features of the Drive Composer 3 software tool and the system requirements for operating the tool.

Drive Composer 3 software tool overview

Drive Composer 3 is a 32-bit Windows tool. You can use it to configure and maintain ABB common-architecture drives. The tool connects to drives in real time through USB or Ethernet. The supported features are:

Features	Refer to ...
Control a drive: start, stop, direction, speed/torque/frequency reference.	Drive control panel (page 72)
Check the operation and status of an active drive.	Drives list panel: status indication (page 62)
View and adjust drive parameters.	Updating parameter values (page 87)
Compare drive parameters.	Comparing parameters (page 95)
View drive event logs.	Event logger (page 117)
Log in to Drive Composer 3.	Log in to Drive Composer 3 (page 25)
View drive information and edit the drive name and timestamp.	Drive info (page 68)
Use the commissioning wizard for drive primary settings.	Guided drive commissioning (page 121)
Monitor signals in numerical and graphical (trending) format.	Adding parameters for monitoring (page 104)
Save the monitor data to your PC and view the file later.	Saving drive monitor data (page 112) and Viewing drive monitor data (page 115)
Create an offline drive to configure, validate, backup, or restore drive parameters.	Launching offline drives (page 151)

14 Overview of Drive Composer 3

Features	Refer to ...
Operate multiple drives (master and follower drives) simultaneously.	Connecting network drives (page 53)
Create a secure network connection with a self-signed certificate configuration.	Creating a secure network connection (page 48)
Use Ethernet-based fieldbus adapter modules for Drive Composer 3 communication (one wired solution, Ethernet IP) or a drive-embedded Ethernet port.	Connecting to a drive through an Ethernet network (page 37)
Use the USB port of an Assistant control panel for a USB connection.	Connecting to a drive through an Assistant control panel for the first time (page 29)
Register a drive.	Register drive (page 167)
Get Drive Composer 3 version updates.	About Drive Composer 3 version updates (page 27)
Send feedback or report a drive issue to the support team.	Send feedback (page 177)
Create a drive backup file.	Creating a backup of a drive (page 144)
View a drive backup file.	Viewing a parameter backup file (page 146)
Restore a drive backup.	Restoring a drive backup (page 148)
Update the drive firmware.	Updating drive firmware (page 127)
Update the fieldbus adapter firmware.	Updating fieldbus firmware (page 132)

System requirements

■ Drive Composer 3 hardware requirements

Cable type	For connecting Drive Composer through the...
USB type A (PC) type mini B (panel) cable (maximum three meters)	USB port of the control panel to a drive
USB type A (PC) USB type C (drive) (maximum three meters)	USB-C port of the drive, eg. ACS380-E
Ethernet cable RJ45	Ethernet adapter module or embedded Ethernet of the drive

■ PC hardware requirements

Hardware	Specification
PC	PC capable of running Windows 10 or 11
Processor	1 gigahertz (GHz) or faster with two or more cores on a 64-bit processor
Memory	4 GB
Display	1366 x 768 display resolution with 256 colors Note: 100% scaling is 96 DPI
Storage	10 GB of free space
Communication port	One free USB port or Ethernet port

■ Software requirements

Software	Specification
Operating system	Windows 10 (32- or 64-bit) Windows 11 (32- or 64-bit)

3

Installation and uninstallation of Drive Composer 3

Contents of this chapter

This chapter gives instructions on how to install or uninstall the Drive Composer 3 software.

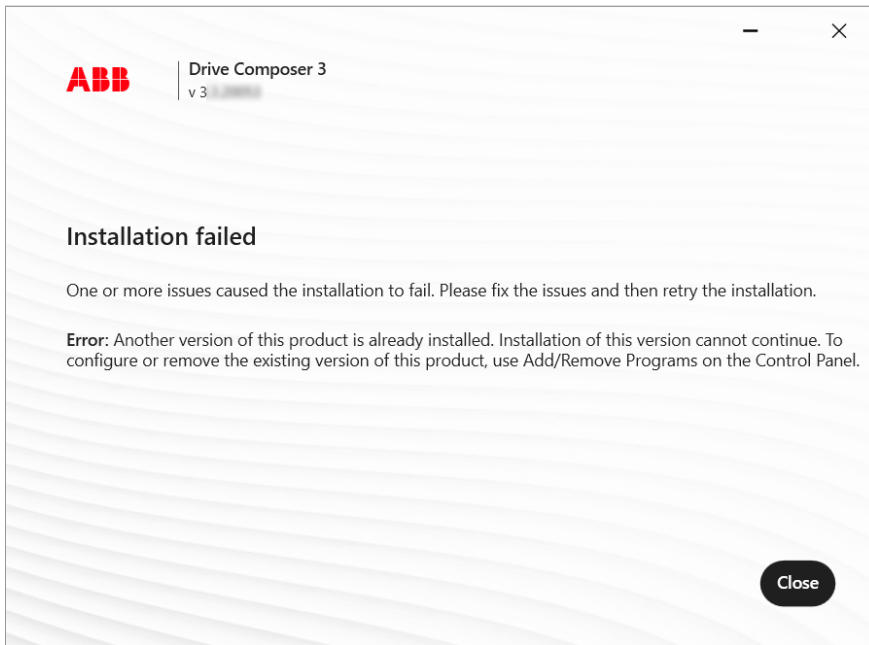
Installing Drive Composer 3 with the installer

You can download the Drive Composer 3 installation package from the [ABB web page for software tools](#) (in the Downloads section) or from the [ABB library](#) or contact ABB.

Close all running applications and remove any earlier versions of the Drive Composer 3 tool before starting the installation. Refer to [Uninstalling Drive Composer 3 with the installer \(page 23\)](#).

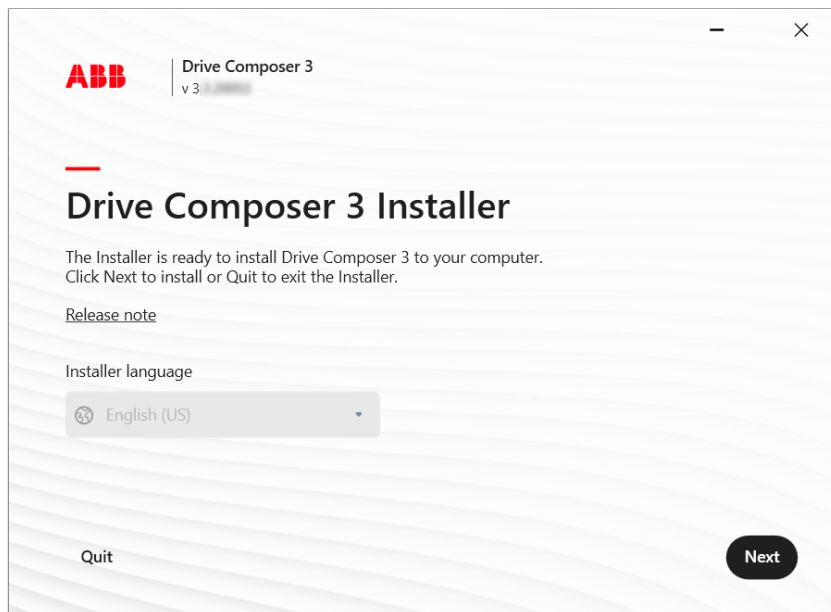
Installing without removing the previous version will trigger an "Installation failed" error message.

18 Installation and uninstallation of Drive Composer 3

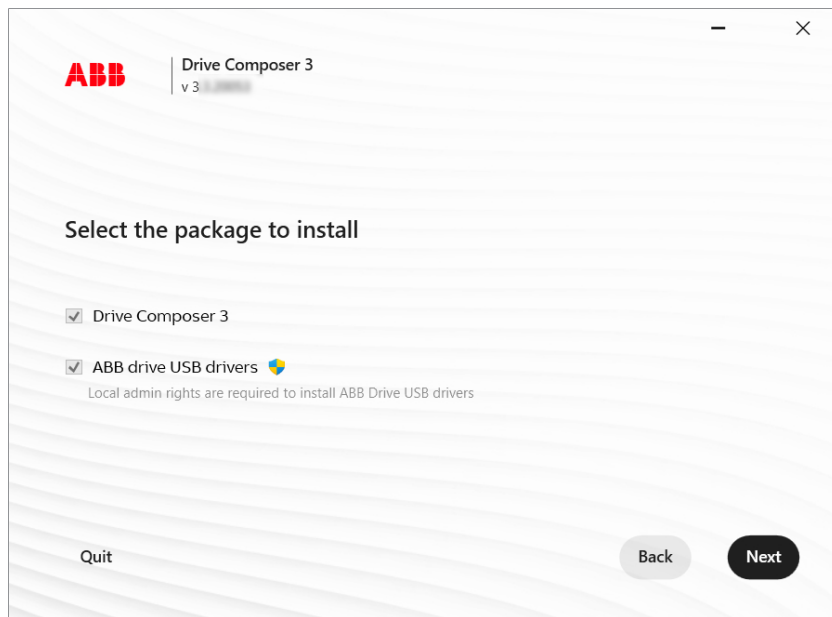


To install Drive Composer 3, do the steps below:

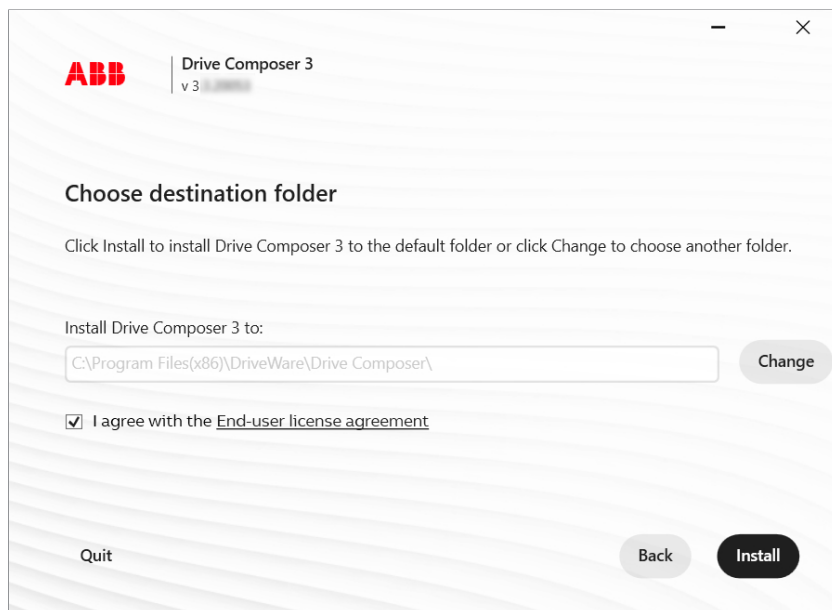
1. Open the **DriveComposer3Installer.exe** file.
2. In the Drive Composer 3 Installer wizard, click **Next**.



3. Select the package to install and click **Next**.

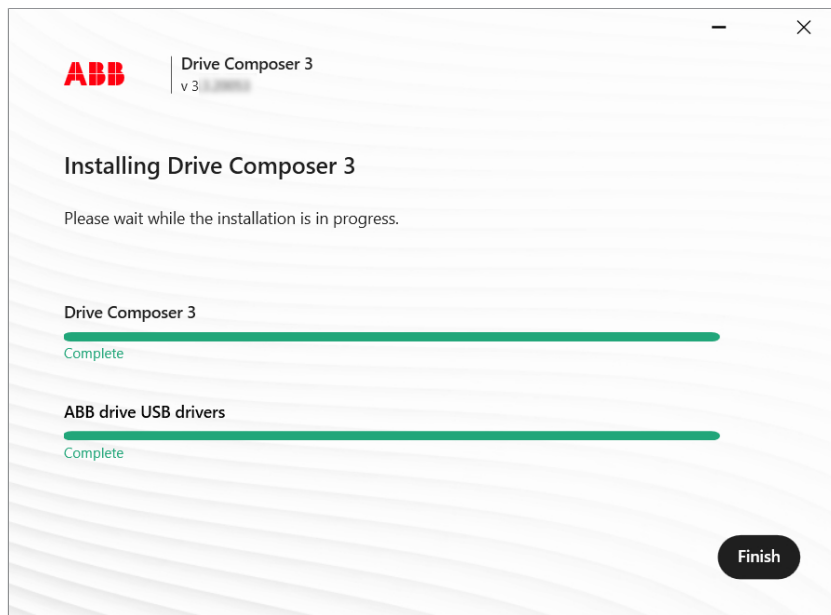


4. Choose a destination folder and accept the End-User License Agreement. Click **Install**.

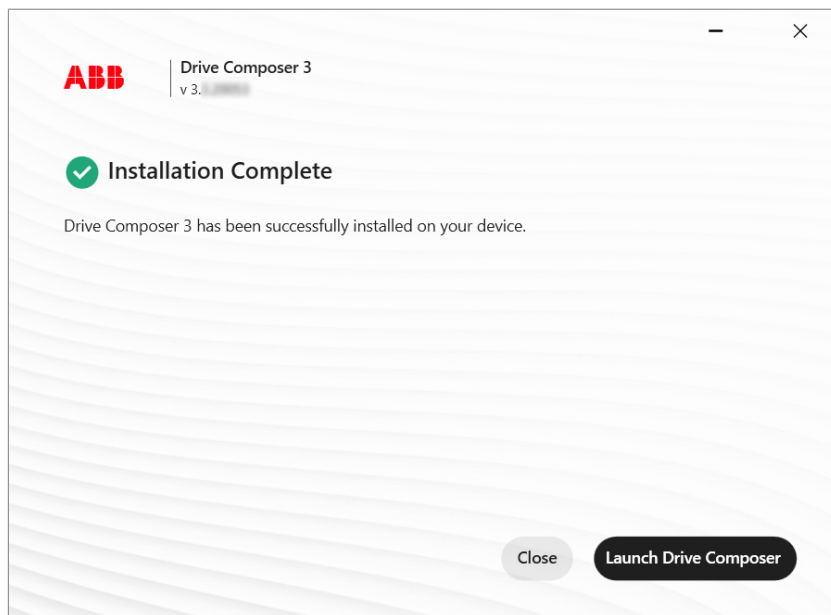


20 Installation and uninstallation of Drive Composer 3

5. After the Drive Composer 3 installation is complete, click **Finish**.



6. In the Installation Complete wizard, click **Launch Drive Composer**.



7. Read and accept the Drive Composer 3 End-User License Agreement (EULA). Click **Apply**.

Drive Composer 3

End User License Agreement

END-USER LICENSE AGREEMENT

IMPORTANT - PLEASE READ CAREFULLY: This End-User License Agreement ("EULA") together with the document as issued by ABB in which the details of the ordered license are included ("Order") is a legally binding agreement based on Swiss law between you (a natural person or legal identity) (hereinafter referred to as "you") and ABB Switzerland Limited, Bruggerstrasse 66, CH-54000 Baden, Switzerland, www.abb.com/drives (hereinafter referred to as "ABB") for the use of "ABB Drive Composer" software, which includes all computer software, control software, associated media, printed and electronic material and documentation as well as any modifications, updates, upgrades, new versions or releases, and derivative works, but excludes any Third Party Software (hereinafter referred to as "Product") and not with any other party including any party from whom you may have downloaded the Product.

By downloading, installing, copying, accessing, clicking on an "accept" button, or other use of the product you agree to be you bound by the conditions of this EULA, including all modifications and additions that may belong to the Product.

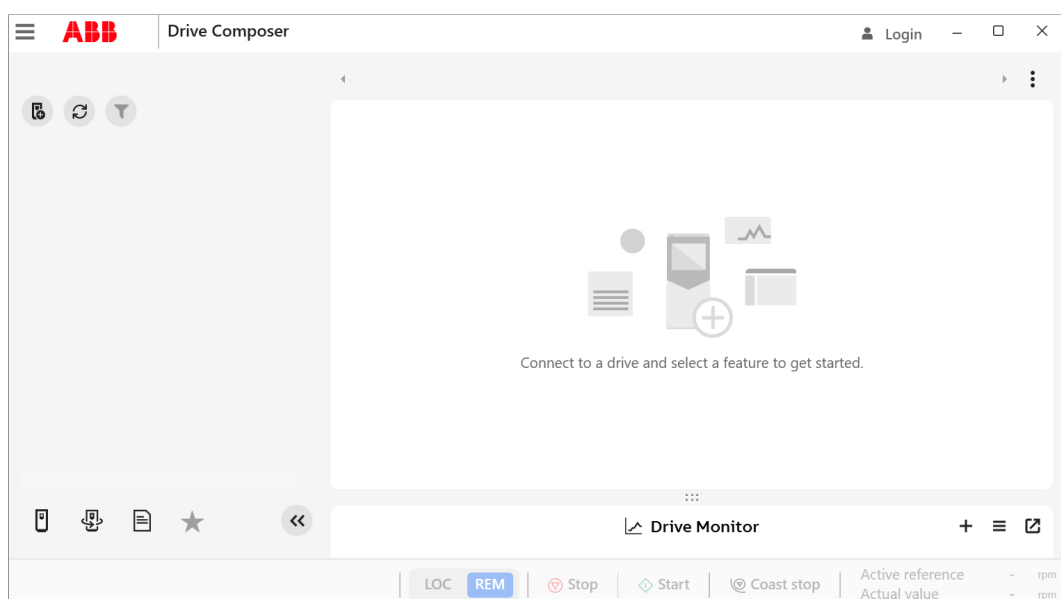
You represent and warrant that you have the legal power and authority to enter into this EULA and that, if the licensee is an entity, this EULA is entered into by an employee or agent with all necessary authority to bind that entity to this EULA. If you have obtained a license of the Product for evaluation purposes, your use of the Product is only permitted for the period limited by the date specified in the Order. Notwithstanding any other provision in this EULA, an evaluation license of the Product is provided "AS-IS" without indemnification, support or warranty of any kind, expressed or implied.

If you do not agree to these terms: Do not (i) download, install, copy, access or otherwise use the Product (ii) click on an "accept" button; and promptly return the unused media, documentation, and proof of entitlement to the party from which it was obtained. If the Product was downloaded or otherwise installed, please destroy all copies of the Product.

☒ I agree with the End User License Agreement

Apply

Drive Composer 3 has been successfully launched and is ready for use.



To continue connecting Drive Composer 3 to the drive, refer to the chapter [Connections \(page 29\)](#).

A desktop shortcut  is added to your PC for quick access to Drive Composer 3. When you open the tool, it checks the current version and prompts you to upgrade or downgrade to the proper installation version if needed. For more information about the update notification, refer to [About Drive Composer 3 version updates \(page 27\)](#).

Note: Drive Composer 3 shows user interfaces based on your system configuration. If you use Windows Home or any edition (not Windows Professional), you must install **WebView2runtime**. This component shows embedded web content.

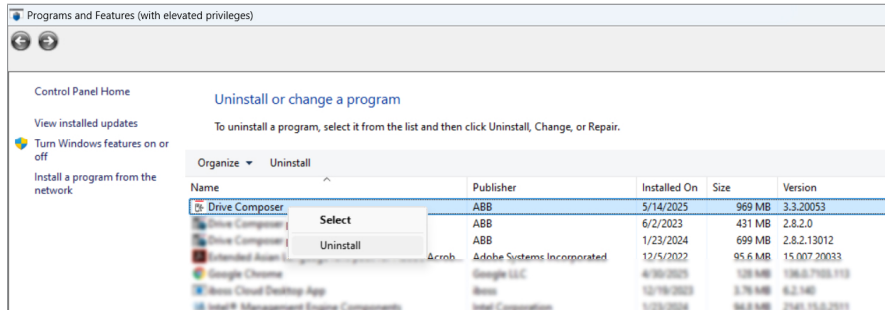
To install **WebView2runtime**:

1. Go to the [Microsoft site](#).
2. Download the component **WebView2runtime** and install it.
3. Restart Drive Composer 3.
The affected features will now work. For more help, contact ABB.

Uninstalling Drive Composer 3 with the installer

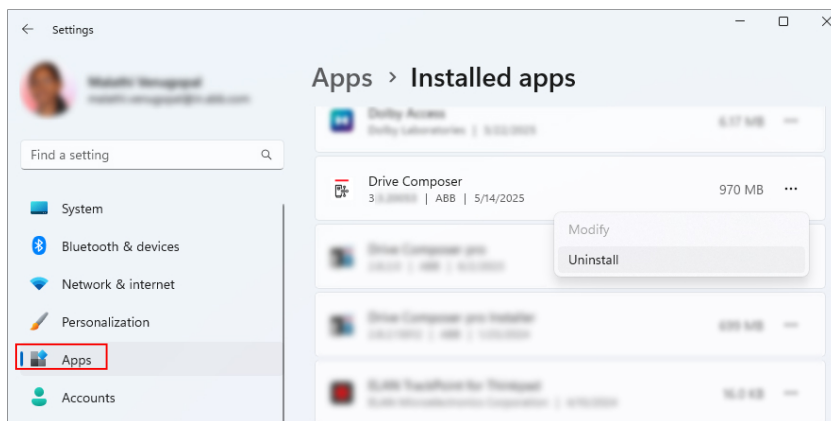
You can uninstall Drive Composer 3 from the Control Panel or Settings window.

1. Go to **Control Panel → Programs → Programs and Features** window → select the installed Drive Composer 3 software and click **Uninstall**.

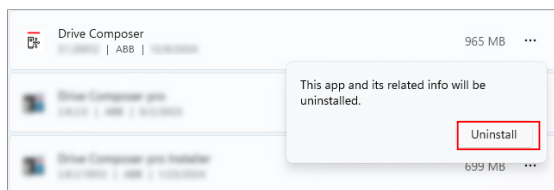


or

Go to **Settings → Apps → Installed apps → Drive Composer → ...** (More options) and click **Uninstall**.

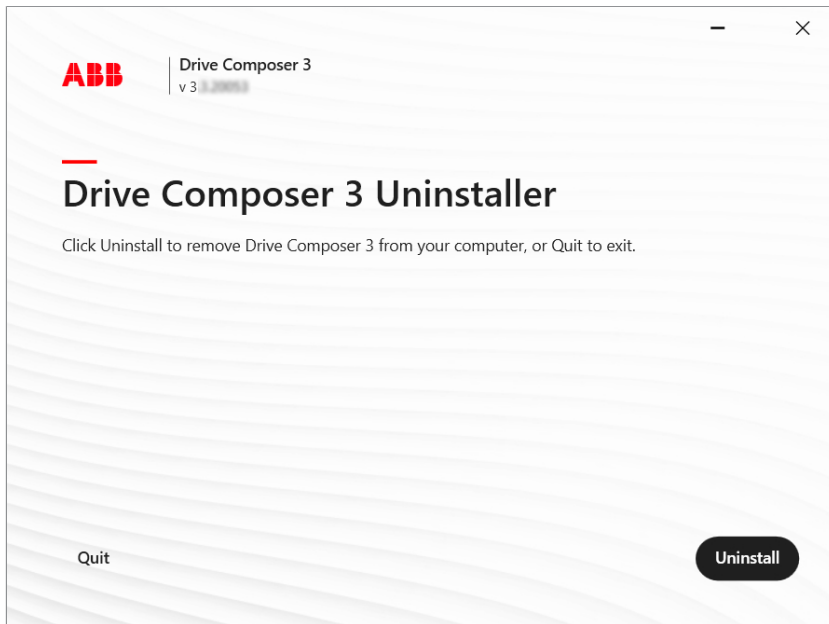


In the message box, click **Uninstall** to confirm uninstalling Drive Composer 3.

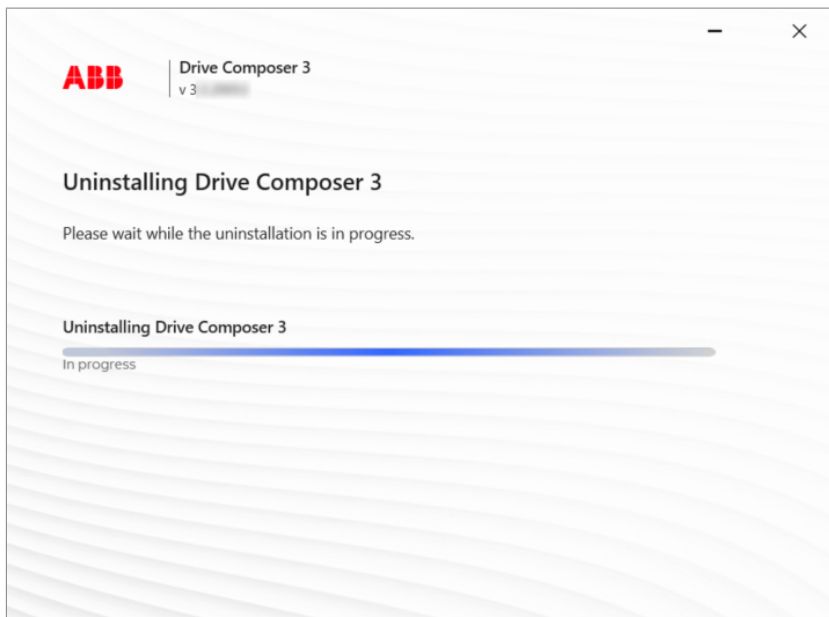


24 Installation and uninstallation of Drive Composer 3

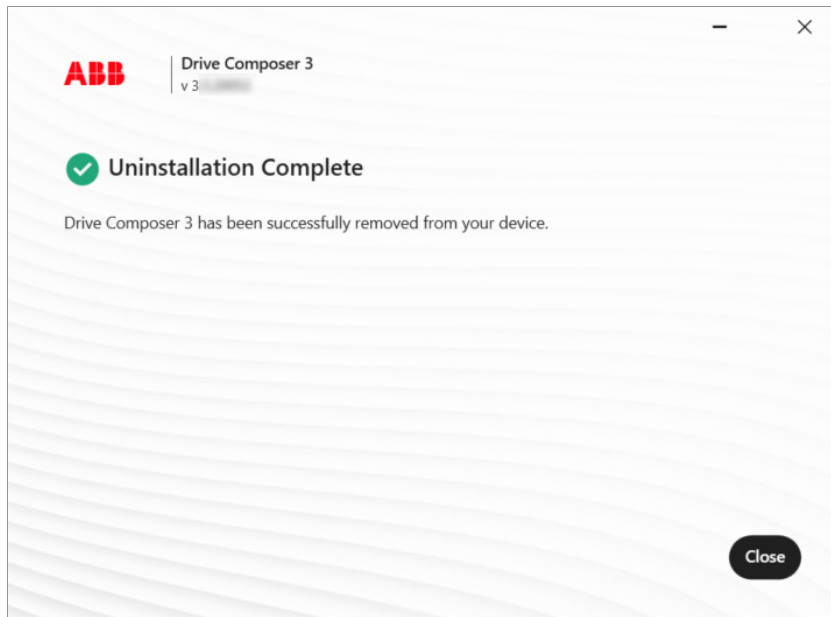
2. In the Drive Composer 3 Uninstaller wizard, click **Uninstall**.



The uninstallation in progress wizard appears.



3. In the uninstallation complete wizard, click **Close**.

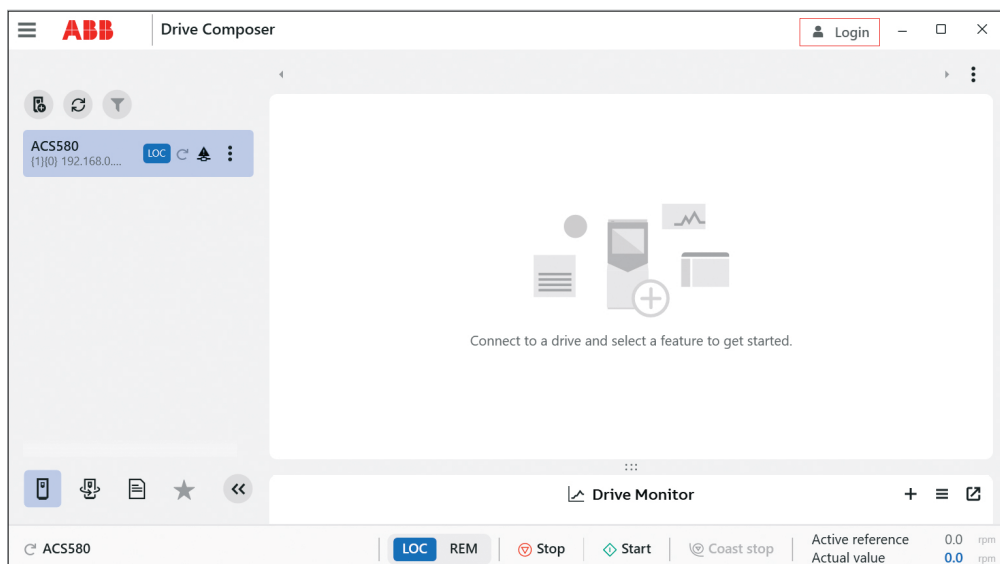


Drive Composer 3 has been successfully removed from your PC. To install a new version, refer to [Installing Drive Composer 3 with the installer \(page 17\)](#).

Log in to Drive Composer 3

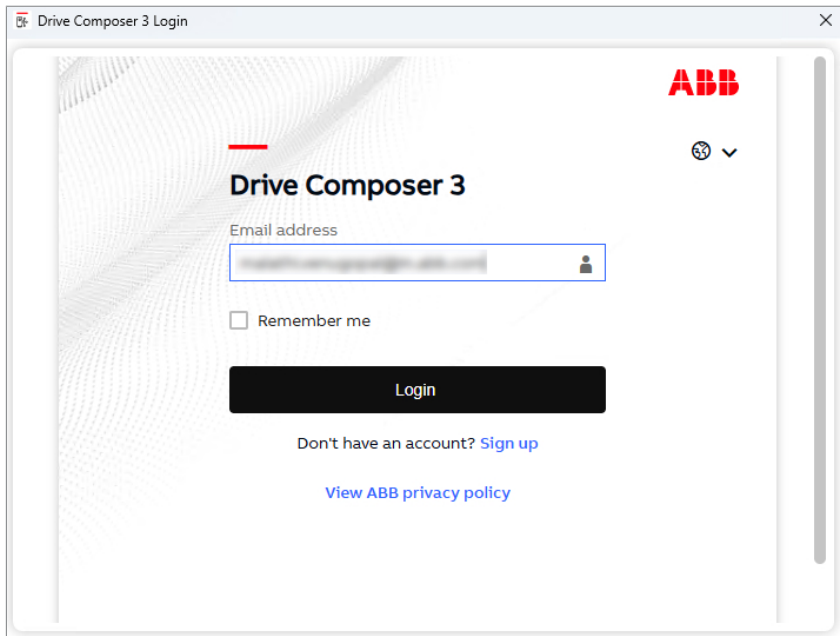
You can log in to Drive Composer and use features such as registering a drive, uploading a drive, or fieldbus adapter firmware from the cloud.

1. On the Drive Composer 3 home page, click **Login**.



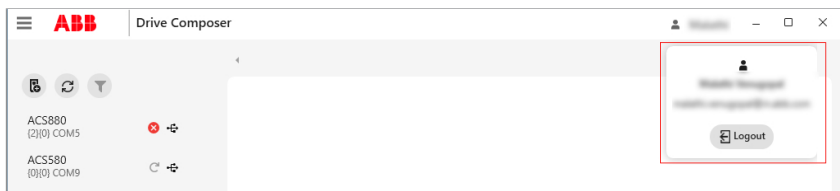
2. Enter an authorized email ID and click **Login**. For more information, refer to [Drive Composer CIAM login \(page 159\)](#).

26 Installation and uninstallation of Drive Composer 3



After successful login, your username appears in the Drive Composer.

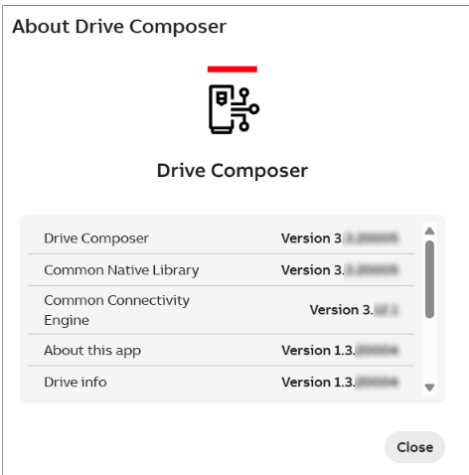
3. To log out of Drive Composer 3, click on your username and click **Logout**.



About the installed Drive Composer 3 version

To know the version of your installed Drive Composer 3, go to ≡ (Hamburger) menu and click **About**.

The About Drive Composer window displays information about Drive Composer 3 and its related modules. Scroll up or down to view all details. Click **Close** to exit the window,



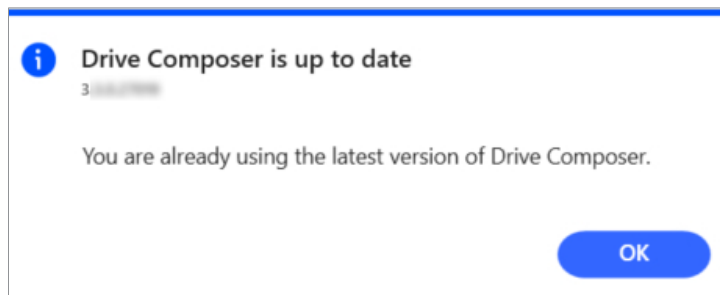
About Drive Composer 3 version updates

The Drive Composer 3 receives regular updates with new improvements and features. ABB recommends using the latest version to access new or enhanced functionality.

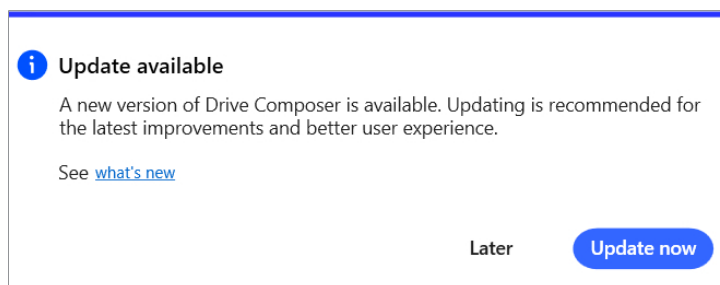
When you launch the software, Drive Composer 3 automatically examines the installed version and notifies you if an upgrade or downgrade is required. You can also manually check the version after disconnecting the drive from Drive Composer 3.

Open the ☰ (Hamburger) menu and click **Check for updates**.

- If you are using the latest version, the following message appears.

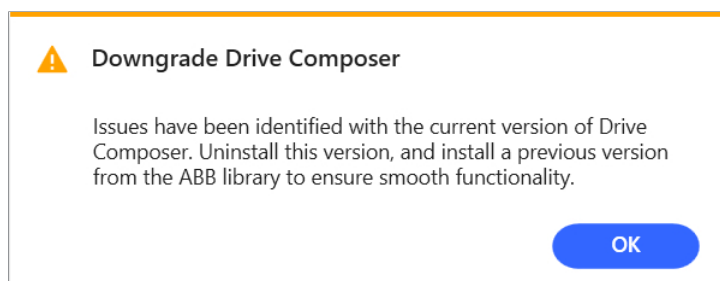


- If you have an older version installed, a message notifies you that a new version is available.

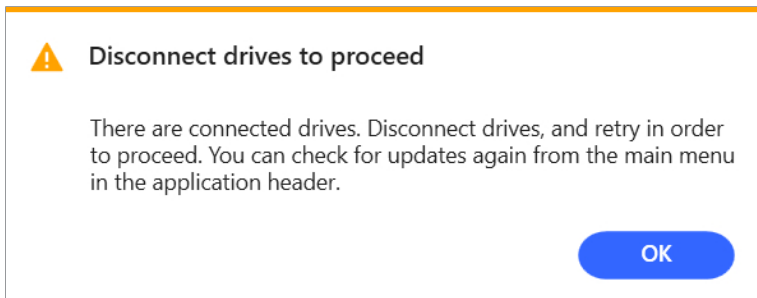


Click **Update now** to download the new version. After the download completes, Drive Composer 3 closes automatically and launches the new installer.

- If you are using an unstable version of Drive Composer 3, a message appears indicating the correct version to use. Obey the instructions in the message.



If you check for updates while the drive is connected, Drive Composer 3 prompts you to disconnect the drive and try again. Obey the instructions in the message.



4

Connections

Contents of this chapter

This chapter gives information about how to make a USB connection or an Ethernet connection to an ABB drive using Drive Composer 3.

The USB device drivers

You can connect your PC running Drive Composer 3 to an Assistant control panel through USB after installing the required USB device drivers. The Drive Composer 3 installer automatically installs the drivers, so no manual action is required.

ACS380-E drive: You can connect your PC running Drive Composer 3 to the USB-C port of the drive after installing the required USB device drivers. The Drive Composer 3 installer automatically installs the drivers, so no manual action is required.

Connecting to a drive through an Assistant control panel for the first time

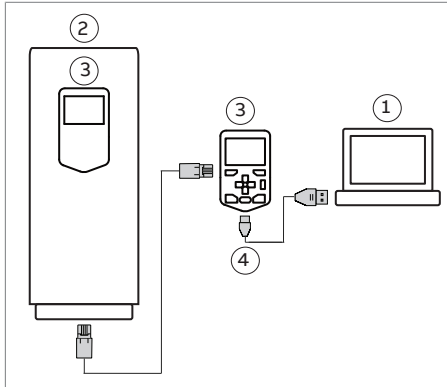
■ Cable type

To establish a connection between Drive Composer 3 and the drive,

- Connect a USB Type-A (PC) to USB Type-B (panel) cable to the USB ports on the PC and the Assistant control panel.
 - Use a USB cable with a maximum length of three meters.
-

■ Connecting to drive

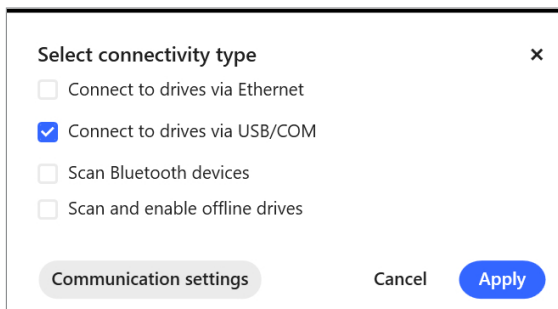
1. Connect your PC [1] to the Assistant control panel [3] of the drive [2] with a USB cable [4].



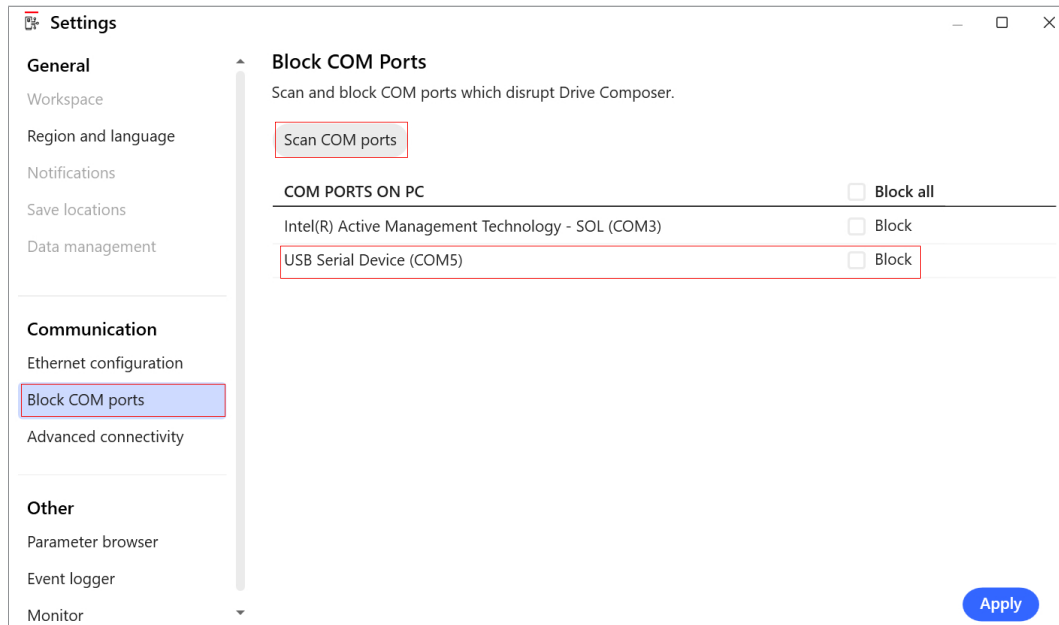
If the drive is connected, the control panel screen shows the message "**USB connected**".

Note: It is not possible to use the Assistant control panel when it is connected to the PC.

2. Open the installed Drive Composer 3 software or click the shortcut on the desktop  to launch Drive Composer 3.
3. Click  (**Connect to drive**).
4. Select the connectivity type as **Connect to drives via USB/COM** and click **Communication settings**.

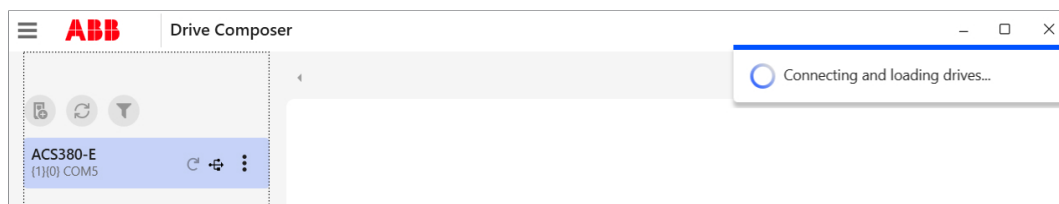


5. In the Settings window, go to **Block COM Ports** and click **Scan COM ports** to scan the COM ports on your PC. If the panel is connected to the correct port, click **Apply**.



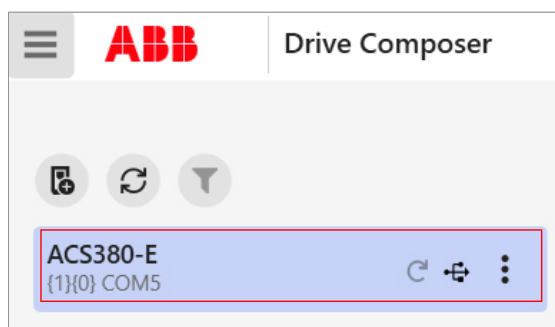
The status LED on the Assistant control panel blinks to indicate data transfer between the drive and PC. It continues blinking while Drive Composer remains connected to the drive.

The **Connecting and loading drives...** notification appears.



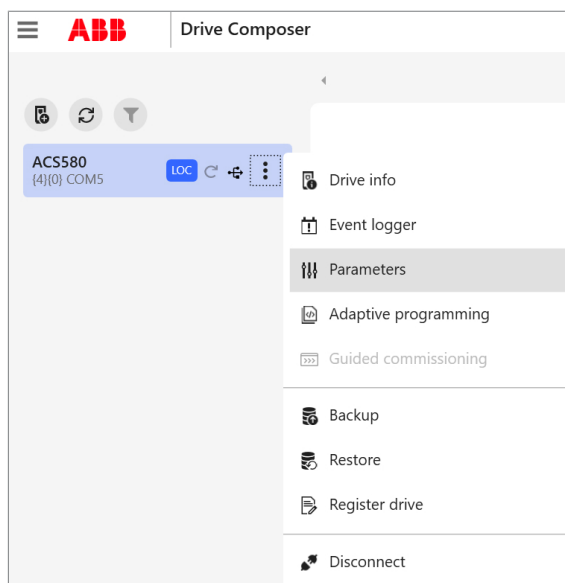
Note: You can block COM ports that interfere with Drive Composer 3 by enabling the Block option.

- Wait while Drive Composer connects and loads the drive. For a first-time connection, the parameter texts are loaded from the drive, and this may take a few minutes depending on the drive type. After Drive Composer 3 is connected to the drive, the drive name appears. The symbol **USB** indicates that the drive is connected with a USB cable.

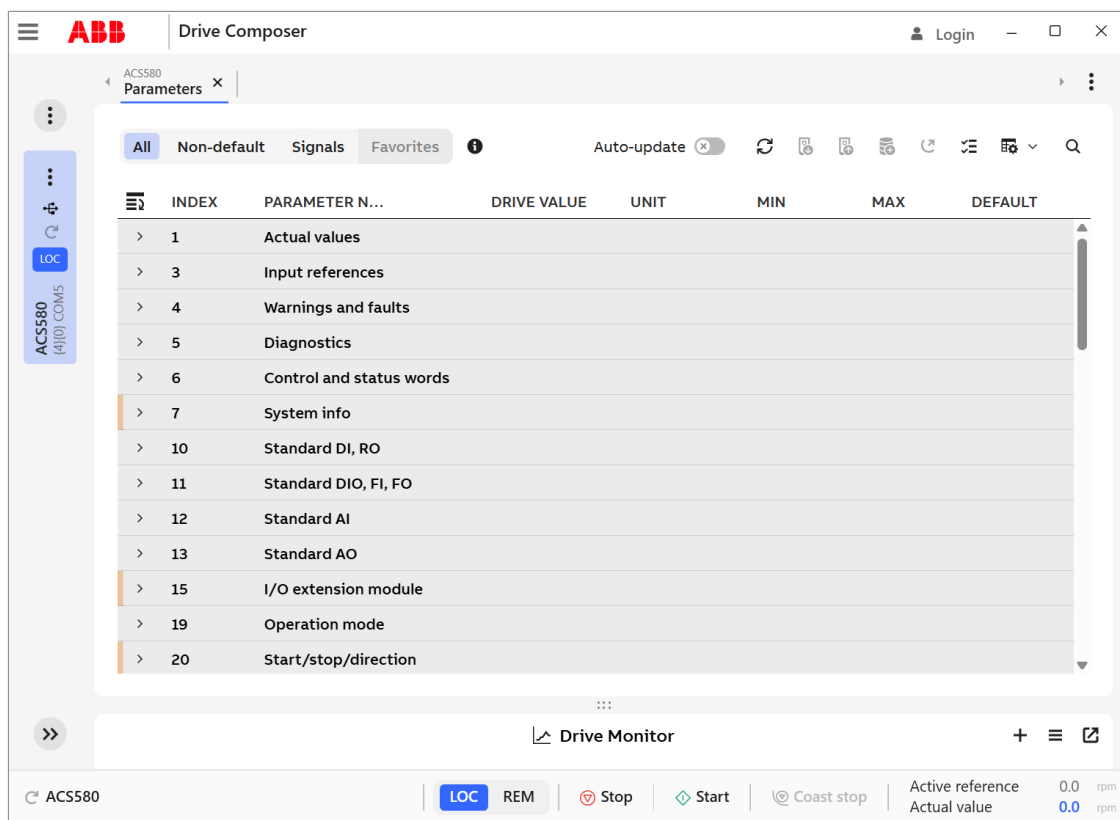


- Click **:** (vertical ellipsis) and select **Parameters**.

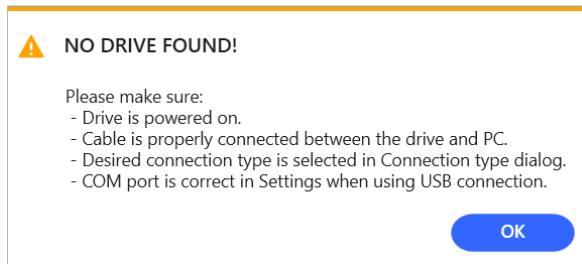
32 Connections



The drive parameters window appears.



If Drive Composer 3 cannot establish an online connection with the drive, the message **NO DRIVE FOUND!** appears. Make sure that all the instructions shown in this window are satisfied.



To examine the COM settings, go to ☰ (Hamburger menu) → **Settings** or ⚙️ (**Connect to drive**) → **Communication settings** and click ↻ (**Refresh**) to connect Drive Composer 3 to the drive.

Connecting to a drive through the EMID-30 control panel

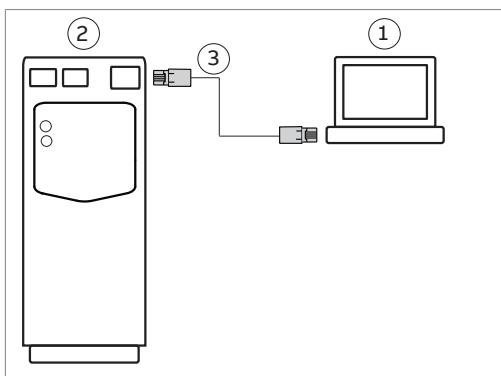
■ Cable type

To establish a connection between Drive Composer 3 and the drive with the control panel EMID-30, eg, in ACS380-E,

- Connect a USB type-A (PC) and USB type-C (drive) to the USB ports on the PC and EMID-30 control panel.
- Use a USB cable with a maximum of three meters.

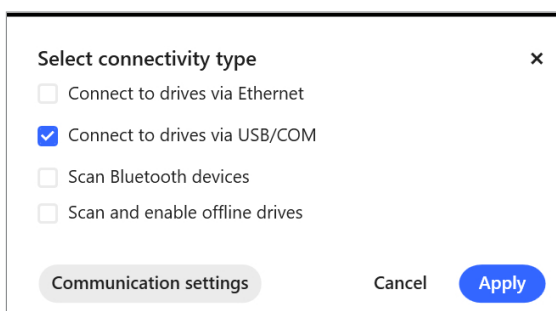
■ Connecting to drive

1. Connect the PC with Drive Composer 3 [1] to the USB Type-C port of the EMID-30 control panel [2]. Use a USB type-A (PC) and USB type-C (control panel) [3] cable.

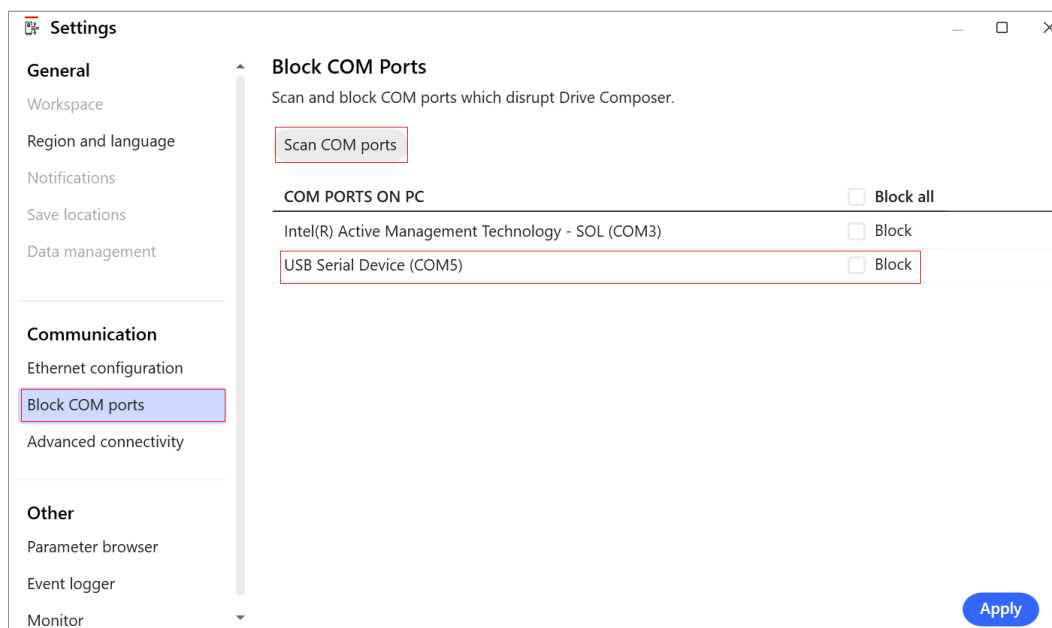


The drive status LED on the panel indicates Green.

2. Open the installed Drive Composer 3 software or click the shortcut on the desktop  to launch Drive Composer 3.
3. Click  (**Connect to drive**).
4. Select the connectivity type as **Connect to drives via USB/COM** and click **Communication settings**.

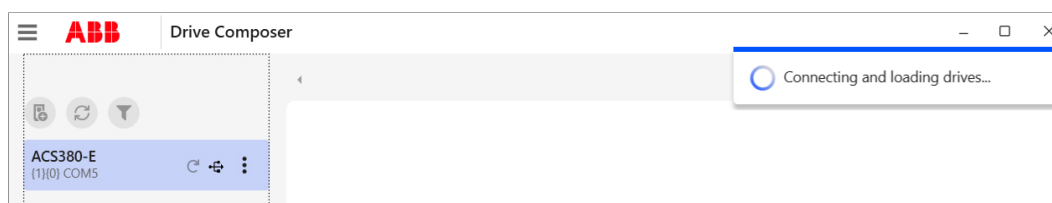


5. In the Settings window, go to **Block COM Ports** and click **Scan COM ports** to scan the COM ports on your PC. If the panel is connected to the correct port, click **Apply**.



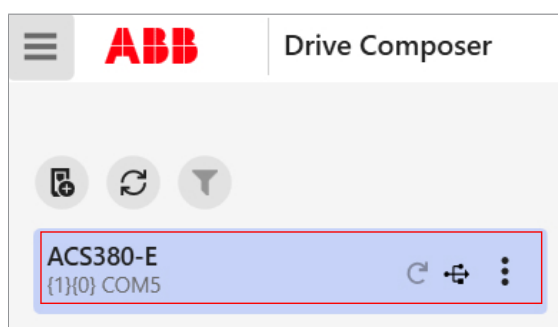
On the control panel, the status LED starts flickering to indicate data transfer between the drive and PC. The LED keeps blinking as long as Drive Composer is connected to the drive.

The **Connecting and loading drives...** notification appears.



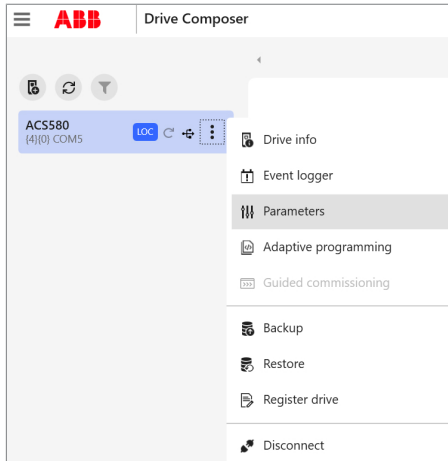
Note: You can block COM ports that disrupt Drive Composer 3 by enabling the Block option.

- Wait while Drive Composer connects and loads the drive. For a first-time connection, the parameter texts are loaded from the drive, and this may take a few minutes depending on the drive type. After Drive Composer 3 is connected to the drive, the drive name appears. The symbol **USB** indicates that the drive is connected with a USB cable.

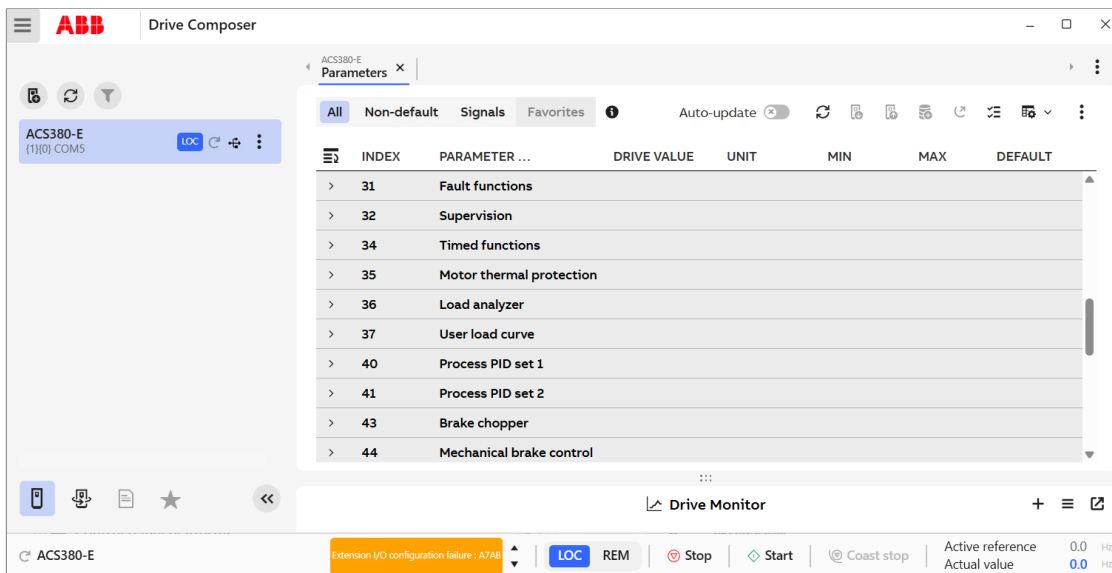


- Click **:** (vertical ellipsis) and select **Parameters**.

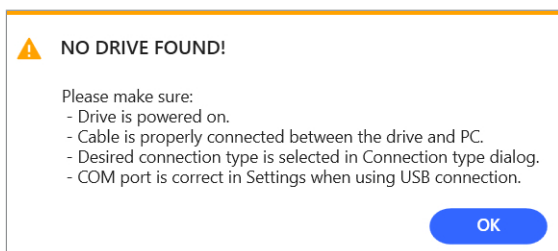
36 Connections



The drive parameters window appears.



8. If Drive Composer 3 failed to connect online with the drive, the message **NO DRIVE FOUND!** appears. Obey the instructions in the window.



To examine the COM settings, go to (Hamburger menu) → **Settings** or (**Connect to drive**) → **Communication settings** and click (**Refresh**) to connect Drive Composer 3 to the drive.

Connecting to a drive through an Ethernet network

■ Ethernet network connection

You can connect a PC with Drive Composer 3 to a drive using an Ethernet cable.

- Use optional adapter modules that support Ethernet. Refer to [Creating an Ethernet connection through the Ethernet adapter module \(page 37\)](#).

or

- Use the embedded Ethernet connector available in some drives (e.g., ACS380-E). You can connect Drive Composer 3 directly to the drive through the Ethernet connector. Refer to the [Connecting to a drive through an embedded Ethernet connector \(page 41\)](#).

Refer to the drive manuals for information on:

- availability and type of optional adapter modules with the Ethernet connection
- availability of the embedded Ethernet network connector, and support.

For installation of adapter modules, refer to the related user's manual (page 12).

Configure the PC or the Ethernet Switch firewall to allow a drive connection to Drive Composer 3 (port HTTP 80, HTTPS 443, and UDP), or disable the firewall.

■ Creating an Ethernet connection through the Ethernet adapter module

Drive Composer 3 supports the following Ethernet adapters for connecting with the drive:

- Profinet IO adapter (FPNO-21)
 - Modbus/TCP (FMBT-21)
 - EtherNet/IP (FEIP-21)
 - BACnet IP (FBIP-21)
 - Two-port Ethernet adapter (FENA-21).
1. Install the Ethernet adapter module in the drive. For instructions, refer to the related user's manual (page 12).
 2. Establish an Ethernet connection using a switch, daisy chain, or a combination of both.
 3. Open the installed Drive Composer 3 software or click the shortcut on the desktop  to launch Drive Composer 3.
 4. Make the preparatory Ethernet communication settings in each drive (steps 5...8) using the control panel or Drive Composer 3.
 5. Connect the PC with Drive Composer 3 to each drive through USB and the control panel.
To have several drives in the same Ethernet link, repeat the settings in steps 1...3 with each drive separately. Use either the control panel or Drive Composer 3.
 6. Connect the PC to each drive over the USB link and the control panel.
 - a. If you use only one fieldbus adapter with the drive, enable the adapter by setting parameter **50.01 FBA A enable = Enable**.
 - b. If you use two fieldbus adapters with the drive and an Ethernet adapter is installed as FBA B, enable adapter 1 by setting parameter **50.01 FBA A enable**
-

= **Enable**, and enable adapter 2 by setting parameter **50.31 FBA B enable = Enable**.

- c. Set parameter **50.51 FBA B Timelevel sel = Fast** or **Monitoring** (for Tool network only).
7. Set a static IP address for each drive in parameter group 51, eg, 192.168.100.1. To connect several drives, make sure each drive has a unique address.

INDEX	PARAMETER ...	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
51	FBA A settings					
51.01	FBA A type	Ethernet	No...			None
51.02	Protocol/Pro...	PNIO ABB Pro	No...	0	200	MB/TCP A...
51.03	Commrate	Auto	No...	0	4	Auto
51.04	IP configurat...	Static IP	No...	0	2	Static IP
51.05	IP address 1		No...	0	255	0
51.06	IP address 2		No...	0	255	0
51.07	IP address 3		No...	0	255	0
51.08	IP address 4		No...	0	255	0
51.09	Subnet CIDR	24	No...	0	32	0
51.10	GW address 1		No...	0	255	0

8. Refresh the settings with parameter **51.27 FBA par refresh**.

NOTICE When you refresh the Node setting, communication to the drive stops. To connect to the drive again, select  (**Refresh**).

9. If you used a USB-panel link, disconnect the PC from it. Connect the PC to the drive using the Ethernet adapter:
 - **For one drive:** Connect the PC directly to the Ethernet adapter module using an Ethernet cable.
 - **For multiple drives on an Ethernet link:** Connect the PC to a connection point on the link, e.g, a router or a two-port Ethernet adapter.
10. Make sure that the TCP/IP address of your PC is configured, e.g., 192.168.100.10. Refer to [Configuring the TCP/IP address \(page 44\)](#).
11. Click  (**Connect to drive**).
12. Select the connectivity type as **Connect to drives via Ethernet**. Click **Apply**.

Select connectivity type

☒ Connect to drives via Ethernet

☐ Connect to drives via USB/COM

☐ Scan Bluetooth devices

☐ Scan and enable offline drives

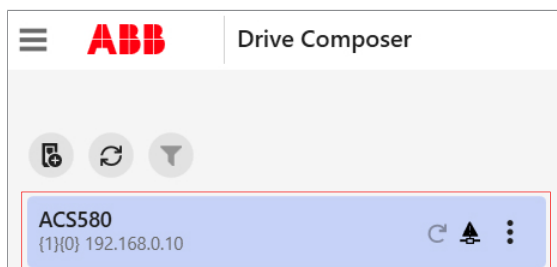
Communication settings

Cancel

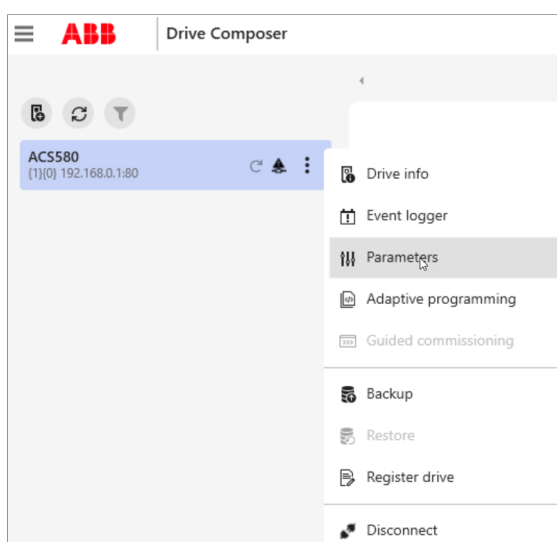
Apply

The **Connecting and loading drives...** notification appears. Wait while Drive Composer connects and loads the drives.

For a first-time connection, the parameter texts are loaded from the drive, and this may take a few minutes depending on the drive type. After Drive Composer 3 connects to the drive, the drive name appears. The symbol  (**Ethernet**- indicates that the drive is connected through an Ethernet network.

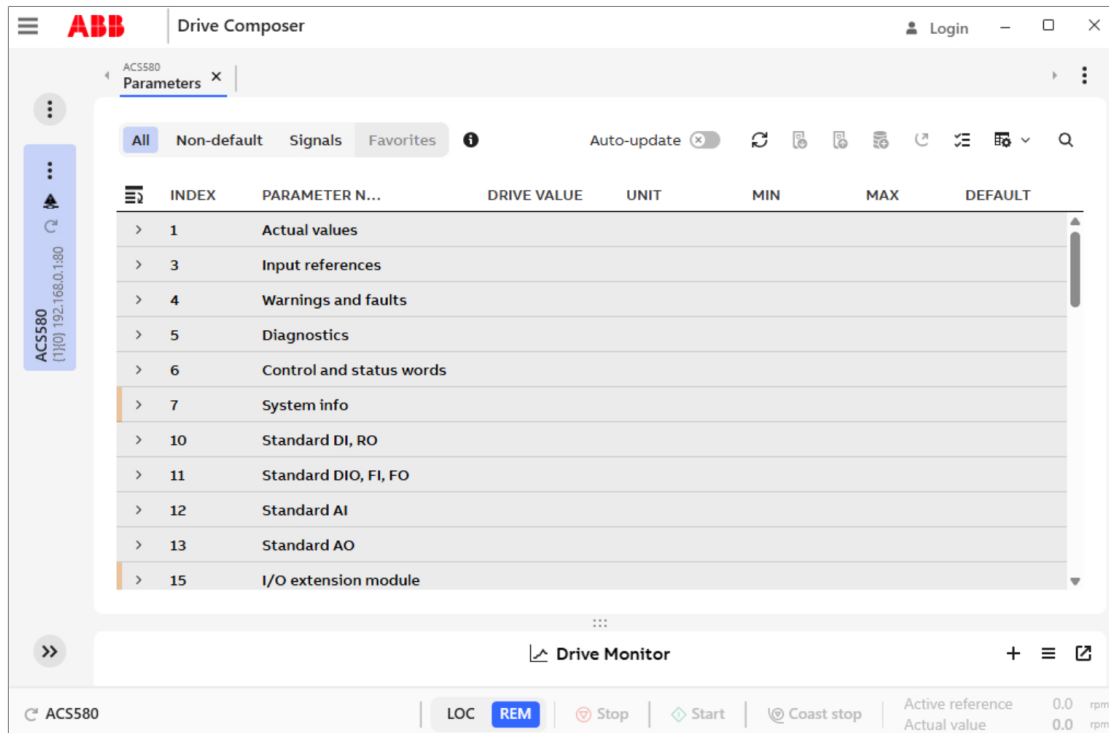


13. Click  (vertical ellipsis) and select **Parameters**.



40 Connections

The drive parameters window appears.



14. If multiple drives are connected to a common Ethernet link, you can edit drive names for easy identification. Refer to [Editing the drive name, time, and date \(page 70\)](#). If you disconnected the drives, connect the Ethernet link between the drives and repeat steps 8...11 for each drive.

Connecting to a drive through an embedded Ethernet connector

■ Embedded Ethernet connection

You can control and monitor the drive, eg, ACS380-E, through the embedded Ethernet connection with these protocols:

- EtherNet/IP (protocol information: www.odva.org)
- PROFINET (protocol information: www.profibus.com)
- Modbus/TCP (protocol information: modbus.org).

■ Creating an Ethernet connection through an embedded Ethernet connector

The embedded Ethernet connector is built within specific drives, eg, ACS380-E. To create an Ethernet network connection through an embedded Ethernet connector in the drive, do the steps below:

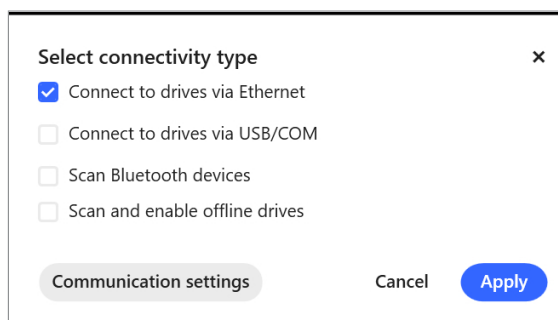
1. Open the installed Drive Composer 3 software or click the shortcut on the desktop  to launch Drive Composer 3.
2. To have several drives in the same Ethernet link, make the preparatory Ethernet communication settings in each drive (steps 3...6) using Drive Composer 3.
3. Connect the PC with Drive Composer 3 to each drive over the USB link. Refer to [Connecting to drive \(page 34\)](#).
4. Enable Ethernet with parameter **50.01**.
5. In parameter group 51, set the required values:

51	FBA A settings					
51.01	FBA A type	Ethernet	NoUnit			Ethernet
51.02	Protocol/Profile	EIP ABB Pro	NoUnit	0	200	PNIO ABB Pro
51.03	Commrate	Auto	NoUnit	0	4	Auto
51.04	IP configuration	Static IP	NoUnit	0	2	Static IP
51.05	IP address 1		NoUnit	0	255	0
51.06	IP address 2		NoUnit	0	255	0
51.07	IP address 3		NoUnit	0	255	0
51.08	IP address 4		NoUnit	0	255	0
51.09	Subnet CIDR	24	NoUnit	0	32	0

- a. Application protocol and communication profile (**51.02**) = **EIP ABB Pro**.
- b. Bit rate for the Ethernet interface (**51.03**) = **Auto**.
- c. Configuration of IP address, subnet mask, and gateway address for the embedded Ethernet connector (**51.04**) = **Static IP**.
- d. Static IP address for each drive (parameters **51.05...51.08**), eg, 192.168.100.1. If you plan to have several drives in the link, each drive must have a unique address.
- e. Use the correct subnet mask or CIDR notation (**51.09**) based on the decimal values shown in the table below. For example, the subnet mask is 24 if the value is 255.255.255.0.

CIDR	Value	CIDR	Value
31	255.255.255.254	15	255.254.0.0
30	255.255.255.252	14	255.252.0.0
29	255.255.255.248	13	255.248.0.0
28	255.255.255.240	12	255.240.0.0
27	255.255.255.224	11	255.224.0.0
26	255.255.255.192	10	255.192.0.0
25	255.255.255.128	9	255.128.0.0
24	255.255.255.0	8	255.0.0.0
23	255.255.254.0	7	254.0.0.0
22	255.255.252.0	6	252.0.0.0
21	255.255.248.0	5	248.0.0.0
20	255.255.240.0	4	240.0.0.0
19	255.255.224.0	3	224.0.0.0
18	255.255.192.0	2	192.0.0.0
17	255.255.128.0	1	128.0.0.0
16	255.255.0.0		

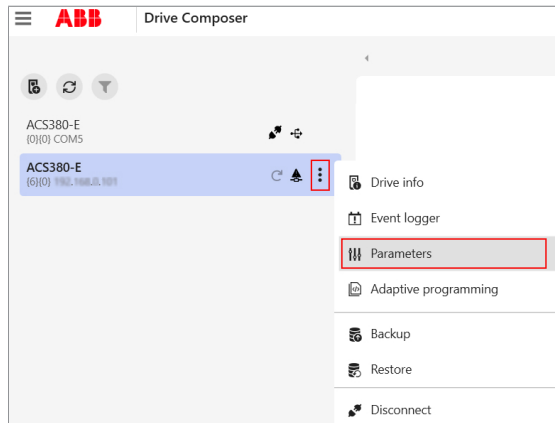
- Refresh the settings with parameter **51.27 FBA par refresh**.
- Disconnect the PC from the USB-panel link (if used). To connect the PC to only one drive, connect it to the drive using an Ethernet cable. To connect the PC to an Ethernet link of several drives, connect it to a suitable connection point in the link.
- Make sure that the TCP/IP address of your PC is configured, eg, 192.162.100.10. Refer to [Configuring the TCP/IP address \(page 44\)](#).
- Click  (**Connect to drive**).
- Select the connectivity type, **Connect to drives via Ethernet**, and click **Apply**.



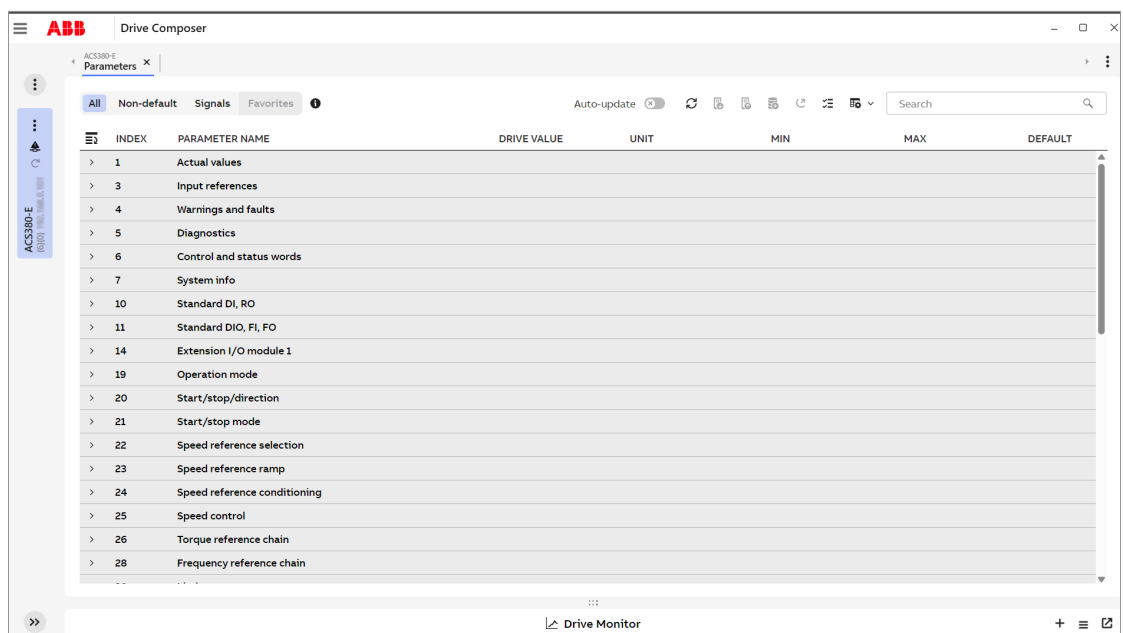
The **Connecting and loading drives...** notification appears. Wait while Drive Composer connects and loads the drives.

For a first-time connection, the parameter texts are loaded from the drive, and this may take a few minutes depending on the drive type. After Drive Composer connects with the drive, the connected drive appears. The symbol  (**Ethernet**) indicates that the drive is connected through an Ethernet network.

- Click  and select **Parameters**.



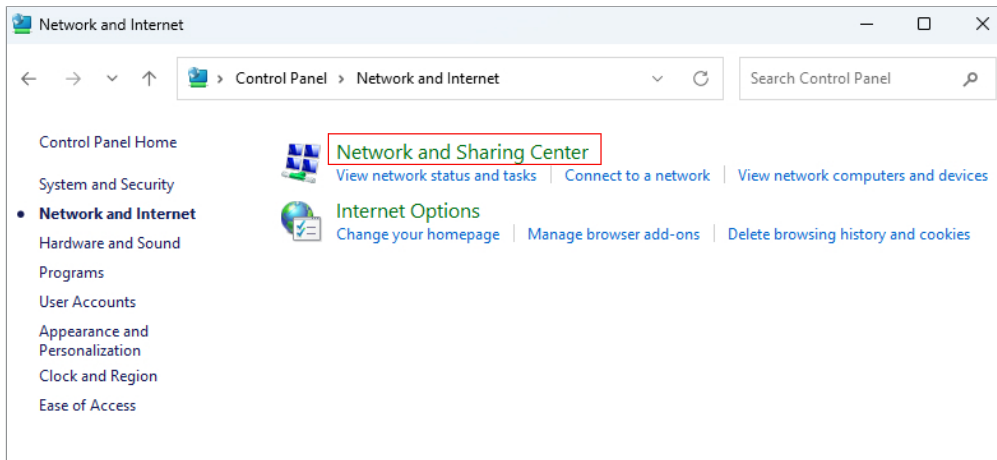
The drive parameters window appears.



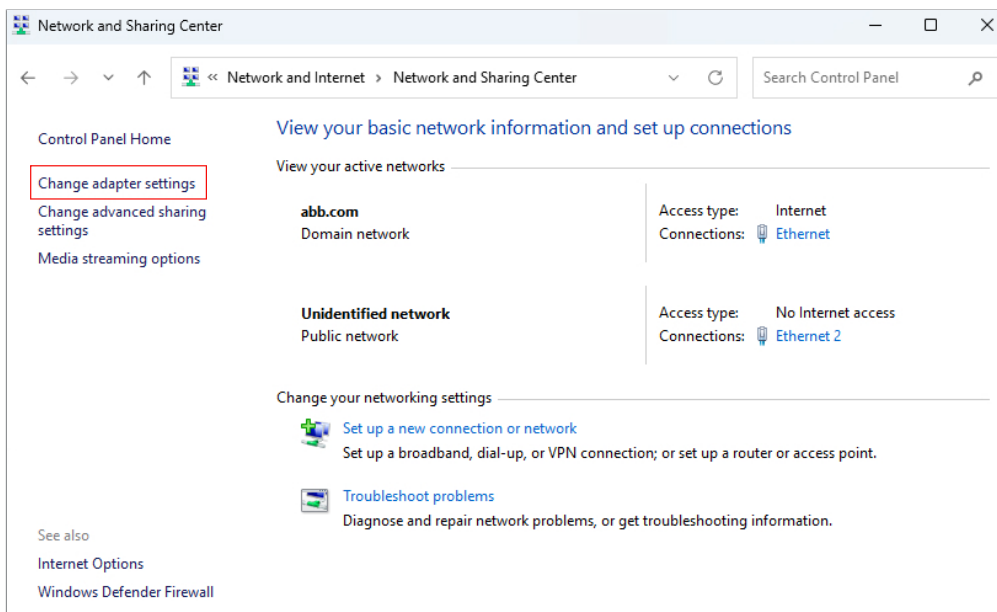
12. If several drives are connected to a common Ethernet link, you can edit the drive names for identification. Refer to [Editing the drive name, time, and date \(page 70\)](#). If you disconnected the drives, connect the Ethernet link between the drives, and repeat steps 8...11 for each drive.

Configuring the TCP/IP address

1. Go to the **Control Panel** and click **Network and Sharing Center**.

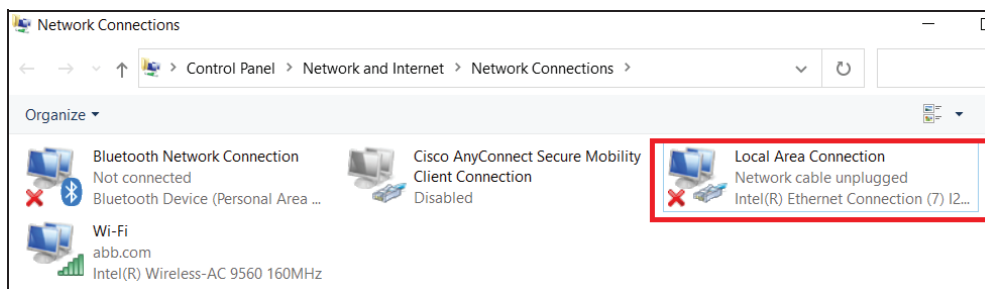


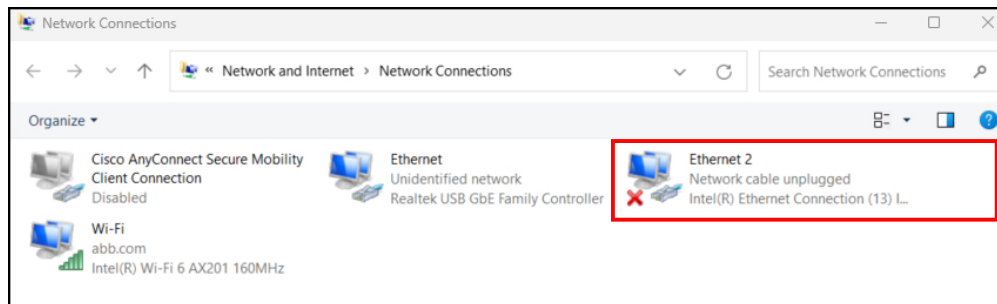
2. Click **Change adapter settings** on the left pane.



The network connections window appears.

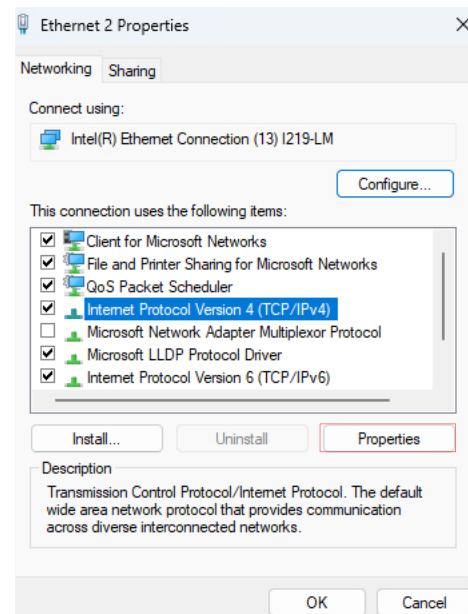
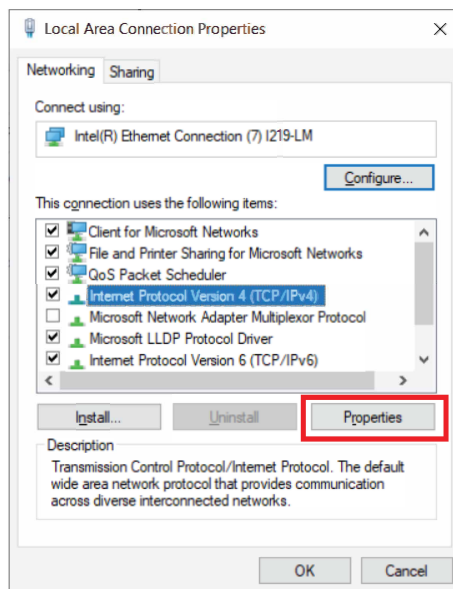
3. Double-click on **Local Area Connection** or **Ethernet**.



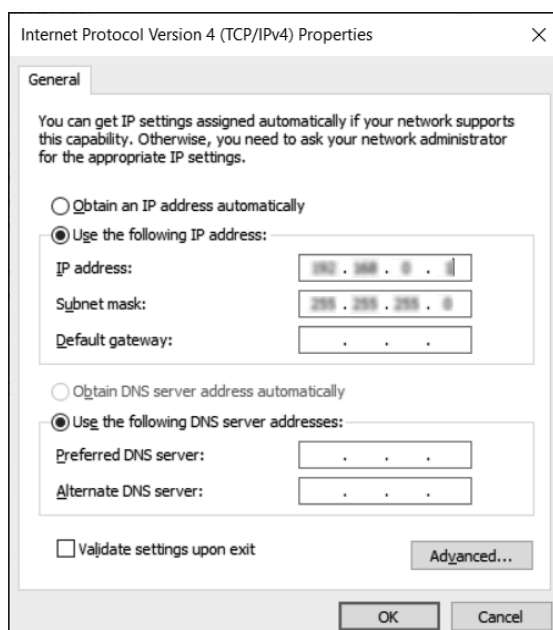


The Local Area Connection Properties or the Ethernet Properties window appears.

4. Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.

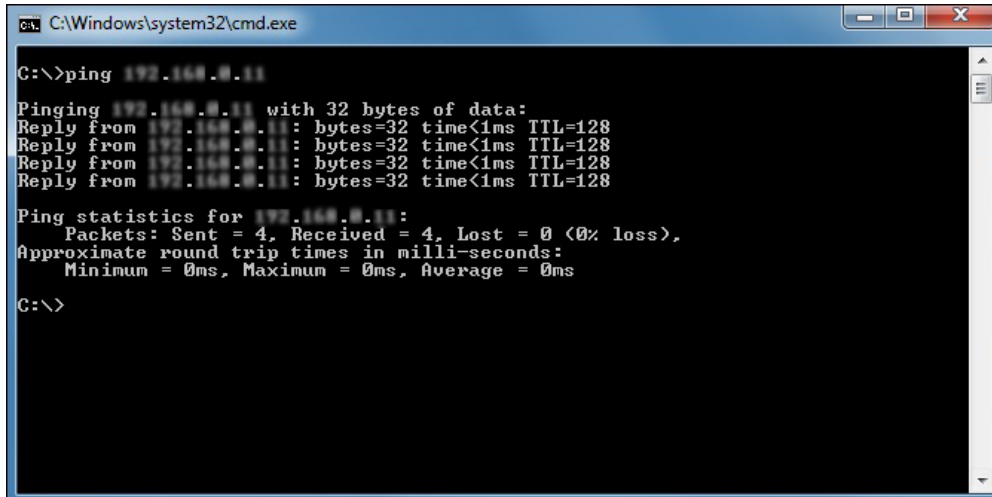


5. Select **Use the following IP address**, type the IP address and subnet mask, and click **OK**.



46 Connections

- Connect the RJ45 cable between the Ethernet adapter module and the PC. Alternatively, connect all drives and the PC to the same Ethernet switch.
- Open the command prompt window (**cmd.exe**) and ping all the drives you have configured.



```
C:\Windows\system32\cmd.exe

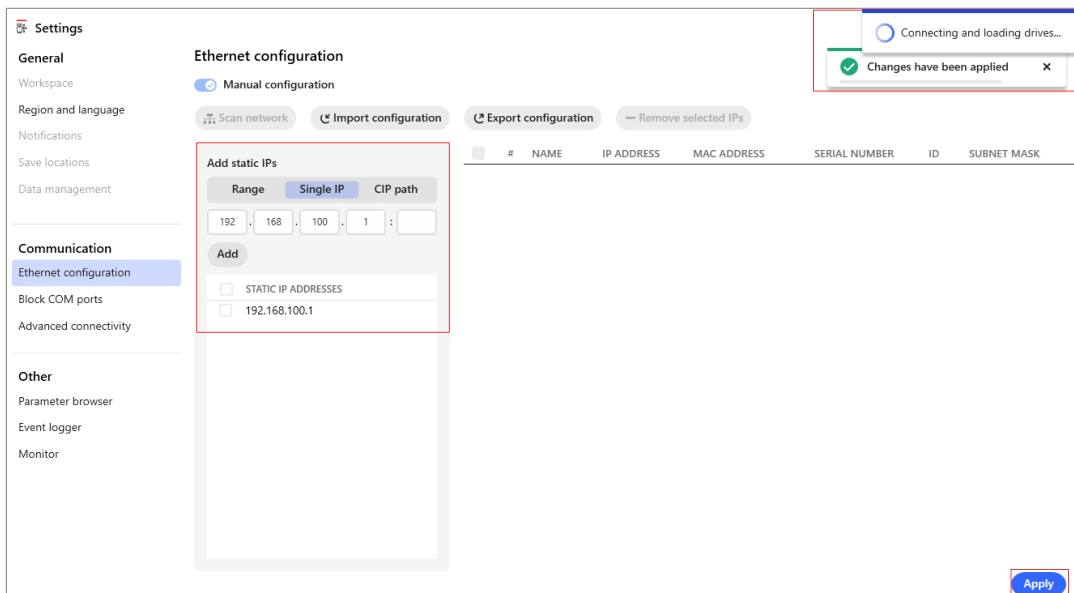
C:\>ping 192.168.0.11

Pinging 192.168.0.11 with 32 bytes of data:
Reply from 192.168.0.11: bytes=32 time<1ms TTL=128
Reply from 192.168.0.11: bytes=32 time<1ms TTL=128
Reply from 192.168.0.11: bytes=32 time<1ms TTL=128
Reply from 192.168.0.11: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

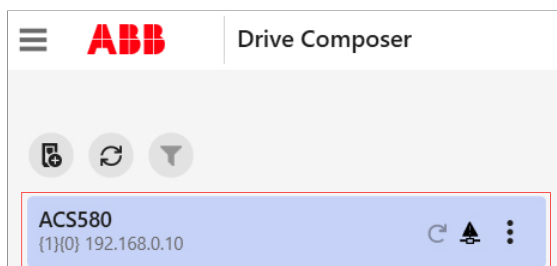
- Open port 80 on your PC to enable Drive Composer 3 to communicate with drives.
- In Drive Composer 3, go to ≡(Hamburger menu) → **Settings** → **Ethernet configuration** or go to  (Connect to drive) → **Communication settings** → **Ethernet configuration**.
- Under **Add static IPs**, select **Range** (for a list of IPs) or **Single IP** (for a single IP) and type the IP address, eg, 192.168.100.1 (if Single IP). Click **Add**.



- The new IP address appears in the STATIC IP ADDRESSES list. Click **Apply**. The **Changes have been applied** banner appears and shows the **Connecting and loading drives ...** banner.

12. Click **x**(exit) to close the Settings window.
13. To establish the connection with the drive, in Drive Composer 3, select  The **(Refresh)**.

The connected drive appears. The symbol  **(Ethernet)** indicates that the drive is connected through an Ethernet network.



Creating a secure network connection

The FPNO-21 fieldbus adapter module supports HTTPS (secure network) for Drive Composer 3 communication. Refer to FPNO-21 PROFINET fieldbus adapter module user's manual ([3AXD50000158614 \[English\]](#)). The module allows a secure connection between the drive and Drive Composer 3.

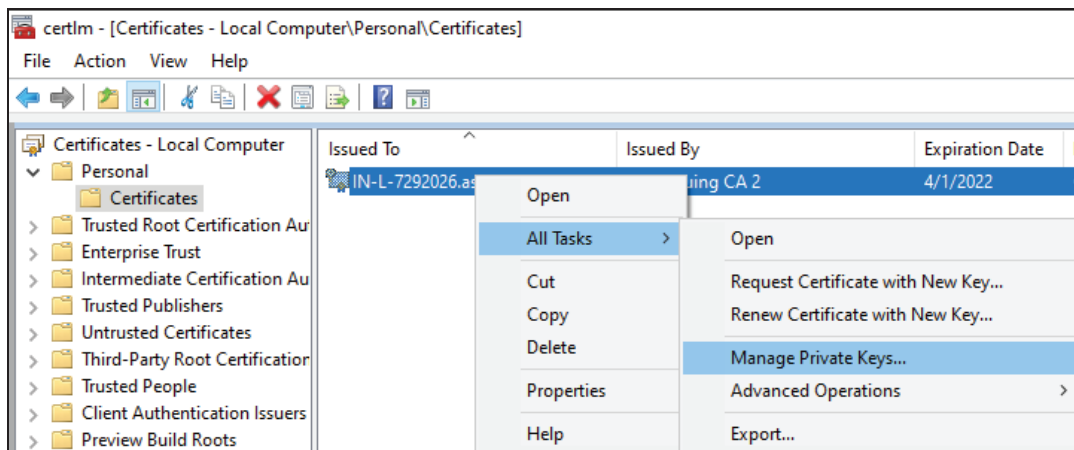
You can create a secure network connection using Client and Server certificates for cybersecurity requirements. Drive Composer 3 uses the self-signed Client certificate. The FPNO module uses the Server certificate.

Refer to sections: [Installing Client certificate \(page 48\)](#), [Installing the Server certificate \(page 50\)](#) and [Configuring Client certificate](#).

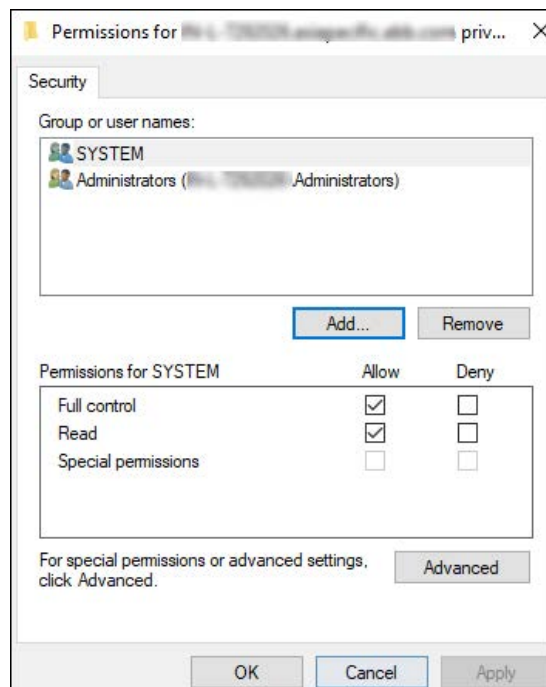
■ Installing Client certificate

To install the Client certificate, do the steps below:

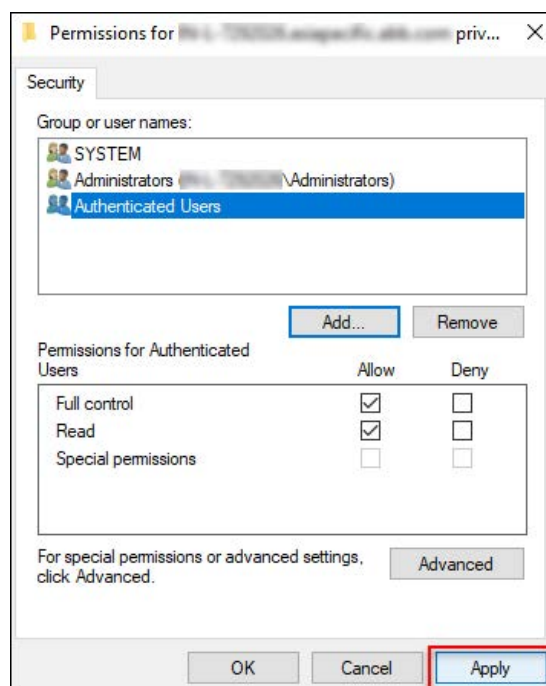
1. From your PC, go to **Manage computer certificates** → **Personal** → **Certificates** to import the certificate to this folder.
2. Right-click on the Client certificate → **All Tasks** → **Manage private keys**.



3. Click **Add** and type *Authenticated users*. Domain can be a hostname or the current network domain. Then, allow full control rights and click **Apply**.



4. Allow full control rights and click **Apply**.

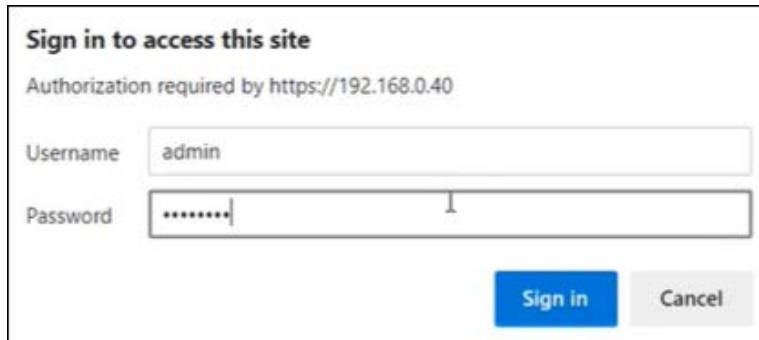


The client certificate is installed and available for authenticated users. Continue configuring the certificate in Drive Composer 3. Refer to [Configuring Client certificate](#).

■ Installing the Server certificate

To install the Server certificate, do the steps below:

1. In the browser, type the IP address of the fieldbus adapter module and press **Enter**. When prompted, enter the Username (admin) and password (last 6 digits in macID of the module).



Sign in to access this site

Authorization required by https://192.168.0.40

Username: admin

Password:

Sign in Cancel

2. In the FPNO configuration window, under Drive Composer certificate settings, upload the certificate and click **Submit all**.

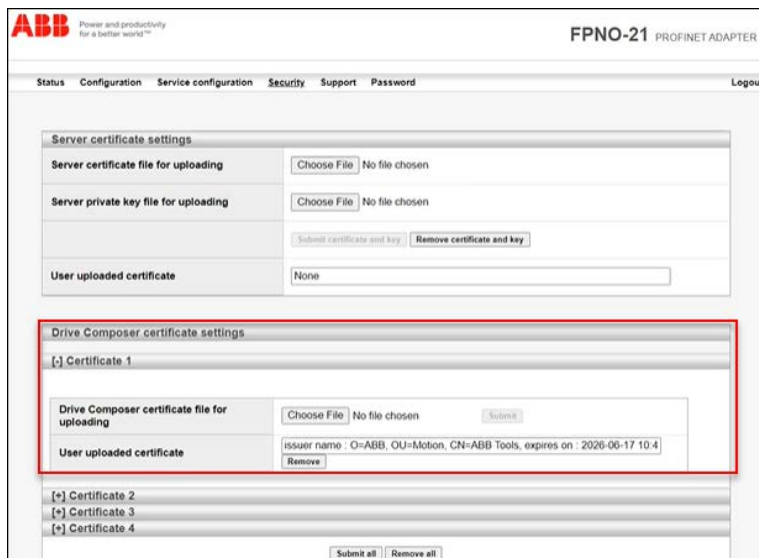


ABB Power and productivity for a better world™

FPNO-21 PROFINET ADAPTER

Status Configuration Service configuration Security Support Password Logout

Server certificate settings

Server certificate file for uploading: Choose File No file chosen

Server private key file for uploading: Choose File No file chosen

Submit certificate and key Remove certificate and key

User uploaded certificate: None

Drive Composer certificate settings

[+] Certificate 1

Drive Composer certificate file for uploading: Choose File No file chosen Submit

User uploaded certificate: issuer name : O=ABB, OU=Motion, CN=ABB Tools, expires on : 2026-06-17 10:4 Remove

[+] Certificate 2

[+] Certificate 3

[+] Certificate 4

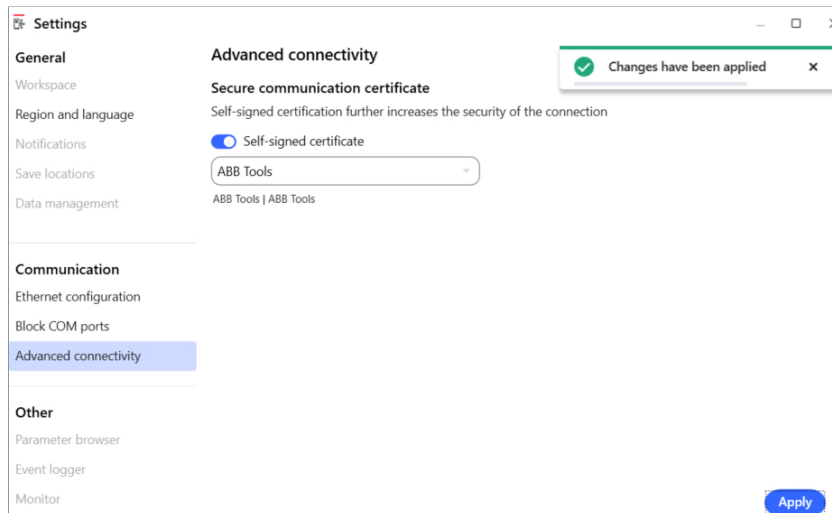
Submit all Remove all

The selected certificates are installed.

■ Configuring Client certificate

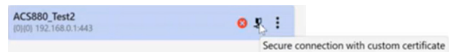
If the Client certificate is installed on your PC, you can configure it in Drive Composer 3.

1. In Drive Composer, go to ☰ (Hamburger) menu and click **Settings**.
2. Under Communication, click **Advanced connectivity** and select the Client certificate you want to configure. Click **Apply**.



The Changes applied message appears. Close the Settings window. If required, close and open the Drive Composer 3 window. If you configured the Server certificate and did not configure the Client certificate, or if the certificates do not match, the drive rejects the connection.

If the drive is connected to Drive Composer 3, the following symbols appear based on the certificate validation:



Secure connection with a custom certificate -

the certificate is validated, and the drive is successfully connected through HTTPS mode



Not secure connection - drive is connected

through HTTP mode



Encrypted communication without a client

certificate - the drive is connected in HTTPS mode without a Client certificate.

■ Creating HTTPS certificates

You can create a matching pair of certificates to make the Common Connectivity Engine (CCE) work with HTTPS client authentication. The certificates are created using **OpenSSL** installed from an unofficial installer, **Win64 OpenSSL vx.x.xk Light** from slproweb.com.

To create HTTPS certificates, do the steps below (certificates shown here are examples only):

1. Install OpenSSL.
2. Create a folder for the files created during the steps.
3. Open the command prompt (**cmd**) in the folder and run the commands below.
4. Make sure that you find OpenSSL through the PATH environment variable where you installed the certificates. You may have other old OpenSSL executables that are part of other software installations. Edit the path accordingly, or replace openssl with **C:\Program Files\OpenSSL-Win64\bin\openssl.exe** in the beginning of each command to run the correct **openssl.exe**.

Command	Result
openssl genrsa -out TestCCE01_RootKey.key 2048	Creates a 2048-bit root certificate RSA key.
openssl req -x509 -new -days 3650 -key Test-CCE01_RootKey.key -out TestCCE01_RootCert.crt -subj "/O=ABB/OU=Testing/CN=Test-CCE01_RootCA_2048"	Creates a root certificate.
openssl genrsa -out TestCCE01_ClientKey.key 2048	Creates a 2048-bit client key.
openssl req -new -key TestCCE01_ClientKey.key -out Test-CCE01_ClientCert.csr -subj "/O=ABB/OU=Testing/CN=TestCCE01_Client_2048"	Creates a client certificate.
openssl x509 -req -days 1000 -in TestCCE01_ClientCert.csr -CA Test-CCE01_RootCert.crt -CAkey TestCCE01_RootKey.key -CAcreateserial -out TestCCE01_ClientCert.crt	Signs the client certificate.
openssl pkcs12 -export -in TestCCE01_ClientCert.crt -inkey Test-CCE01_ClientKey.key -out TestCCE01_ClientCert.p12 -name "clientPrivateKey"	Creates a PKCS#12 keystore file for certificate installation.
Note: This command prompts you to choose a password. It is required later for certificate installation.	

5. After the commands run, make sure that the files below are available.

Name	Date modified	Type	Size
 TestCCE01_ClientCert.p12	5.8.2021 14:57	Personal Informati...	3 KB
 TestCCE01_ClientCert.crt	5.8.2021 14:57	Security Certificate	2 KB
 TestCCE01_ClientCert.csr	5.8.2021 14:56	CSR File	1 KB
 TestCCE01_ClientKey.key	5.8.2021 14:55	KEY File	2 KB
 TestCCE01_RootCert.crt	5.8.2021 14:53	Security Certificate	2 KB
 TestCCE01_RootKey.key	5.8.2021 14:53	KEY File	2 KB

6. Install the certificate files below:
 - **TestCCE01_RootCert.crt** - for uploading FPNO (Drive)
 - **TestCCE01_ClientCert.p12** - for installing on the Local PC store.
7. Double-click to install the required password.

The HTTPS certificates are created.

Connecting network drives

■ Panel bus network connection

Depending on the drive type, it is possible to construct a panel bus between the drives using either of these methods:

- Use the twin-panel bus connectors in the control panel holders of the drives. The ACS880-01 drive has twin connectors, but not available in most of the other drive types. Refer to the hardware manual of the drive and the instructions below.
- Connect the panel bus connectors of the FDPI-02 option modules installed onto the drive control units. The option is available for the ACS880 drive series. Refer to the ordering information of the drive (availability), and the FDPI-02 diagnostics and panel interface unit user's manual ([3AUA0000113618](#) [English]).
- Connect the panel bus connectors of the CDPI-01 or -02 panel bus adapters installed onto the drive control panel holders. The option is available for ACH480, ACS480, ACH580, ACQ580, and ACS580 drive series. Refer to the ordering information of the drive (availability) and CDPI-01/-02 panel bus adapters user's manual ([3AXD50000009929](#) [English]).

■ Constructing a panel bus and setting it up with Drive Composer 3

1. Before connecting the drives with the panel bus cabling, create a point-to-point connection from the Assistant control panel or Drive Composer 3 to each drive to set up the necessary parameters for the panel bus communication. Refer to [Connecting to drive](#) (page 30).
2. Set an independent node ID for each drive (with parameter **49.01 Node ID number**). The node ID must be between 1...32.
3. Refresh the settings with parameter **49.06 Refresh settings**.
Drive Composer 3 scans all COM ports and Ethernet ports to find drives. For more information, refer to the Ethernet tool network for ACS880 drives application guide ([3AUA0000125635](#) [English]).
When you refresh the Node setting, communication to the drive stops. To connect to the drive again, select  (**Refresh**).
4. With parameter **49.05 Communication loss action**, define how the drive reacts to a control panel (or Drive Composer) communication break by selecting **No action**.

49	Panel port communication					
49.01	Node ID number	5	NoU...	1	32	1
49.03	Baud rate	230.4 kbps	NoU...			115.2 kbps
49.04	Communication ...	10.0	s	0.3	3000.0	10.0
49.05	Communication ...	No action	NoU...			Fault
49.06	Refresh settings	Done	NoU...			Done

5. Name each drive to facilitate the recognition of drives when creating a panel bus connection. Refer to [Editing the drive name, time, and date](#) (page 70).

Note: The drive name changes only after you refresh the view. The previous names in other existing workspaces are not affected.

If you used the Assistant control panel, name the drives from the control panel **Settings** menu.

6. Remove all panels connected to drives.
7. For the daisy-chain connection of the drives, connect a standard RJ45 (straight CAT5) cable to the left-hand side connector of the Assistant control panel holder in the first drive to the control panel. Refer to the figure below. This is possible with the ACS880-01 drive with the twin panel connectors in the control panel holder. For other connection options, refer to [Panel bus network connection \(page 53\)](#).



8. Connect a standard RJ45 (straight CAT5) cable from the right-hand side connector of the Assistant control panel holder in the first drive to the left-hand side connector of the Assistant control panel holder in the second drive.
 9. Continue chaining the remaining drives as described above.
 10. Set the bus termination resistor to the ON position in the last node. The switch is between the twin connectors of the control panel holder.
-

■ Examining the visibility of drives in the panel bus

1. Connect a USB cable between the Assistant control panel and the PC.
 2. Double-click **DriveComposer3Installer.exe** or the desktop shortcut  to launch Drive Composer 3.
The status LED starts flickering on the Assistant control panel.
Drive Composer 3 starts scanning all selected networks and loads the connected drives.
 3. Make sure you can view all drives in the Drives list.
If any drive is missing, you can close and open Drive Composer 3. If the drive is still missing in the list, examine the settings in the Group 49 Panel port communication.
Note: Drive Composer 3 does not automatically open any parameter browser or other object.
 4. Click on a drive from the connected drive(s) list.
-

5

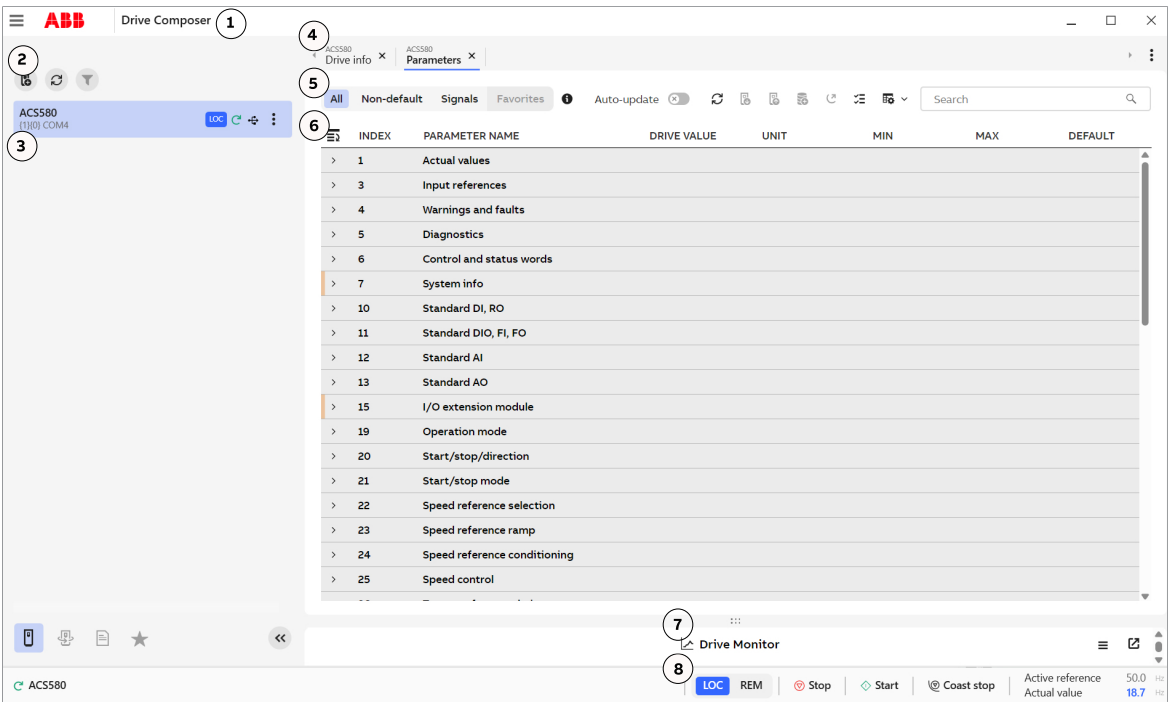
Main user interface components

Contents of this chapter

This chapter gives information about the user interface (UI) components of Drive Composer 3 and how to use them.

Drive Composer 3 UI overview

The Drive Composer 3 user interface has the below primary parts.



No.	Description	For information, refer to section(s)...
1	Title bar	Title bar (page 59)
2	Drive connection panel: It connects the drive to Drive Composer 3.	Connections (page 29)
3	Connected drives list.	Drives list panel (page 61) and Drives list panel: status indication (page 62) .
4	Working area headers. The headers appear based on the selections in the Drive list panel.	Drives list panel (page 61)
5	Status panel (including the output view of the selected drive).	Parameter browser commands (page 84)
6	Working area for parameter browser, event logger, assistants, etc.	Working area (page 63)
7	Drive monitoring window.	Drive Monitor window (page 101)
8	Drive control panel.	Drive control panel (page 72)

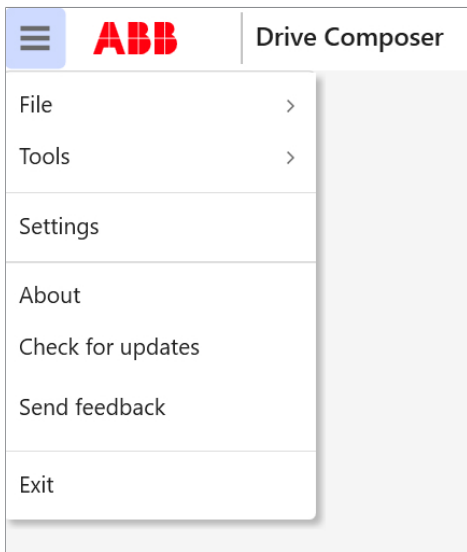
Title bar

The title bar is located at the top of the main window. It has the following parts:



No.	Description
1	Hamburger menu (page 60)
2	Tool name
3	Minimize button. With this button, you can reduce the main window to the taskbar or a sub-window to the bottom of the window area.
4	Maximize/Restore down button (the name depends on the status of the maximized window). With this button, you can enlarge the window to fill the available space or restore the window to the size and position it had before it was maximized. You can also maximize or restore the window by double-clicking the title bar, or move the window by dragging the side walls of the window. Note: It is not possible to move a window by dragging the title bar if the window is fully maximized or minimized.
5	Close button. It is used to end the Drive Composer 3 session. Refer to Closing Drive Composer 3 (page 81) .

Hamburger menu



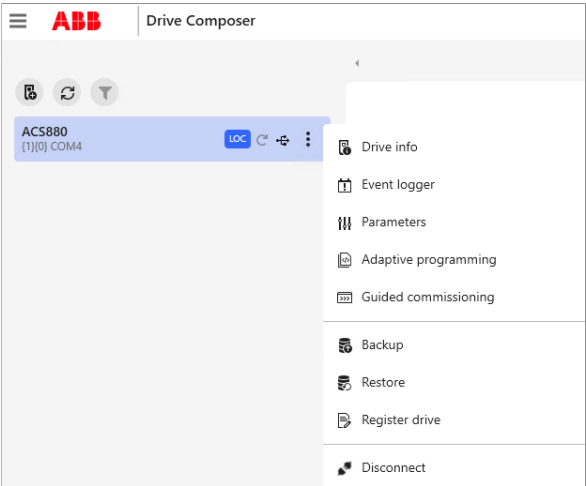
In the  (Hamburger) menu, you can

- Open a drive monitor file in ***.dcmn** format and view the recorded data in the Drive Monitor file viewer. Refer to [Viewing drive monitor data \(page 115\)](#).
- Open a parameter backup file in ***.dcbak** format and view it in the parameters browser. Refer to the [Viewing a parameter backup file \(page 146\)](#).
- Launch an offline drive and configure drive parameters. Refer to [Launching offline drives \(page 151\)](#).
- Update the drive firmware loading package file in ***.signed** or ***.lp** format. Refer to [Updating drive firmware \(page 127\)](#).
- Select the preferred region and default language for Drive Composer and drive parameters. Refer to [General settings \(page 75\)](#).
- Configure the settings to connect the drive to Drive Composer 3. Refer to [Communication settings \(page 75\)](#).
- Define user interface settings for the parameter browser, event logger, and drive monitor. Refer to [User interface settings \(page 78\)](#).
- Know the installed Drive Composer 3 version and its related modules. For more information, refer to [About the installed Drive Composer 3 version \(page 26\)](#).
- Examine the installed Drive Composer 3 software and determine whether an update is required. Refer to [About Drive Composer 3 version updates \(page 27\)](#).
- Send feedback to the Drive Composer support team. For more information, refer to [Send feedback \(page 177\)](#).
- Close Drive Composer 3 (refer to page 81).

Drives list panel

The drives list panel on the left pane shows all connected drives and open files. The motor icon (clockwise open circle arrow) indicates the drive status. Refer to the [Drives list panel: status indication](#).

When you click on a connected drive, a context menu with different drive view types appears.



Drive context menu	For more information, refer to ...
Drive info	Drive info (page 68)
Event logger	Event logger (page 117)
Parameters	Parameters browser (page 83)
Adaptive programming	Adaptive programming (page 157)
Guided commissioning	Guided drive commissioning (page 121)
Backup	Creating a backup of a drive (page 144)
Restore	Restoring a drive backup (page 148)
Register drive	Register drive (page 167)
Disconnect	Disconnecting a connected drive (page 80)

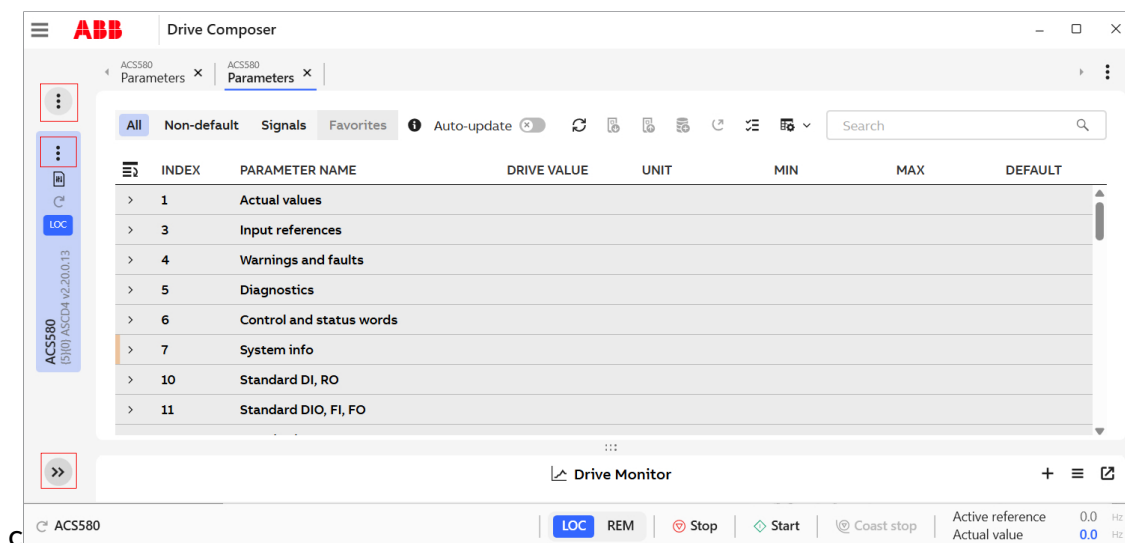
You can open these views either as new tabs or floating windows. If an active window is connected to a drive or a file, the drive list highlights the corresponding tree item.

■ Drives list panel: status indication

Status	Description
Stopped drive 	A Grey circle arrow indicates a stopped drive.
Running drive 	A Green circle arrow indicates a running drive.
Faulty drive 	A red circle with a white cross (x) indicates a faulty drive.
Broken connection 	An unplugged symbol indicates that the connection to the drive is broken.
Drive connected through USB 	A USB symbol indicates that the drive is connected with USB between the PC and the Assistant control panel/Control panel type EMID-30 (in ACS380-E drive).
Drive connected through Ethernet or HTTP 	An Ethernet symbol indicates that the drive is connected through Ethernet or HTTP mode between the PC and the Assistant control panel/Control panel type EMID-30 (in ACS380-E drive).
Offline drive connection 	An OCE connection symbol indicates an offline drive connection.

■ Incrementing or decrementing the drives list panel

In the Drive Composer 3 window, you can click the  (double arrow) button to increment/decrement the left pane and view the expanded working area on the right pane. In the decremented pane, you can still use the functions of the drive connection panel and click the  (vertical ellipses) to view the list of connected drives.



Working area

The working area shows the following views:

- [Drive info \(page 68\)](#)
- [Event logger \(page 117\)](#)
- [Parameters browser \(page 83\)](#).

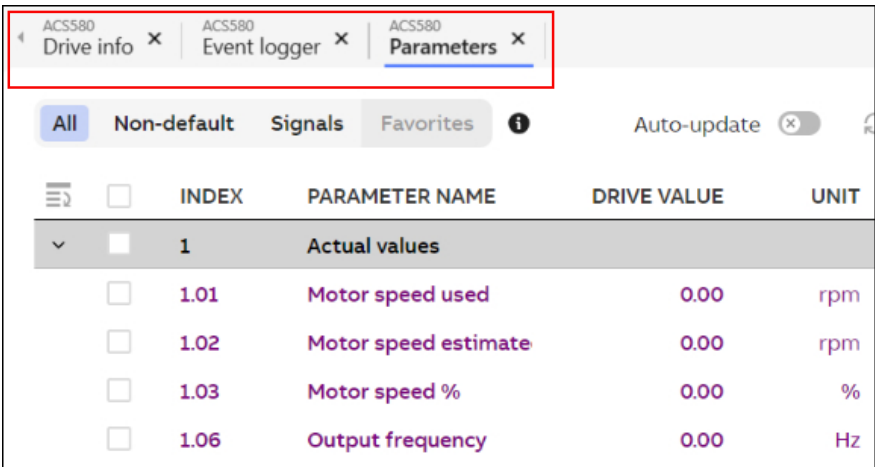
■ Using the working area

In the working area, you can

- Use tabs or floating windows
- Drag and drop the tabs wherever needed on the screen
- Adjust the size of the working area by dragging the white separating line left/right
- Adjust the size of the drive list to the left/right
- Resize the windows that are not maximized by dragging any corner
- View the content beyond the screen using scroll bars on the side or bottom of a window.

■ Visualize working area functions

The user interface is tabbed by default. You can open tabs for a single drive or for multiple drives.

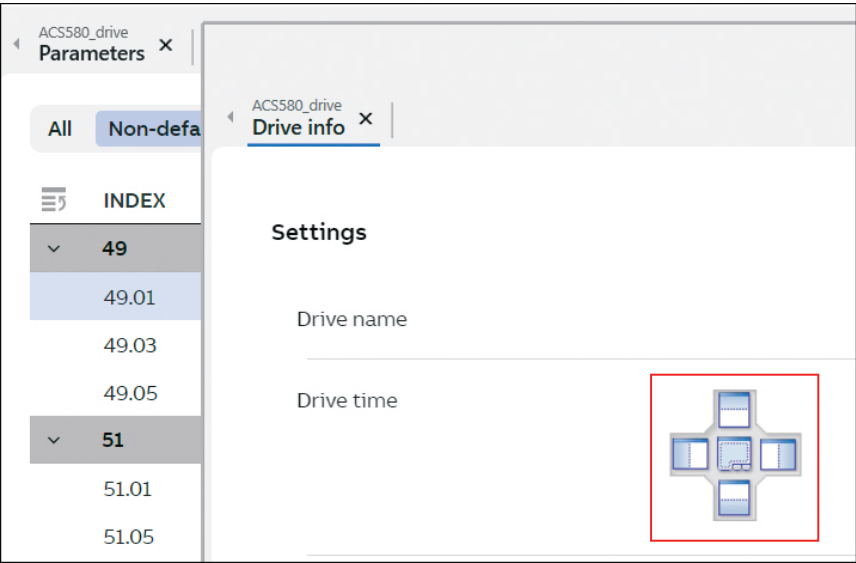


The screenshot shows the top of the working area with three tabs: 'ACS580 Drive info', 'ACS580 Event logger', and 'ACS580 Parameters'. The 'Parameters' tab is active and highlighted with a red box. Below the tabs is a navigation bar with 'All', 'Non-default', 'Signals', and 'Favorites' buttons, along with an 'Auto-update' toggle. The main content is a table with columns: INDEX, PARAMETER NAME, DRIVE VALUE, and UNIT. The table is filtered to show 'Actual values' for drive 1. The parameters listed are Motor speed used, Motor speed estimate, Motor speed %, and Output frequency, all with a value of 0.00.

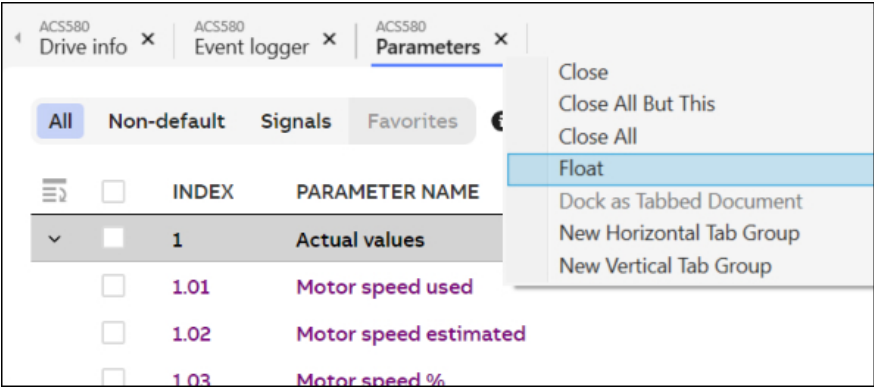
	INDEX	PARAMETER NAME	DRIVE VALUE	UNIT
▼	1	Actual values		
☐	1.01	Motor speed used	0.00	rpm
☐	1.02	Motor speed estimate	0.00	rpm
☐	1.03	Motor speed %	0.00	%
☐	1.06	Output frequency	0.00	Hz

You can change the position of tabs by dragging and dropping the window. The navigation icon appears while moving the window and placing it in the desired location.

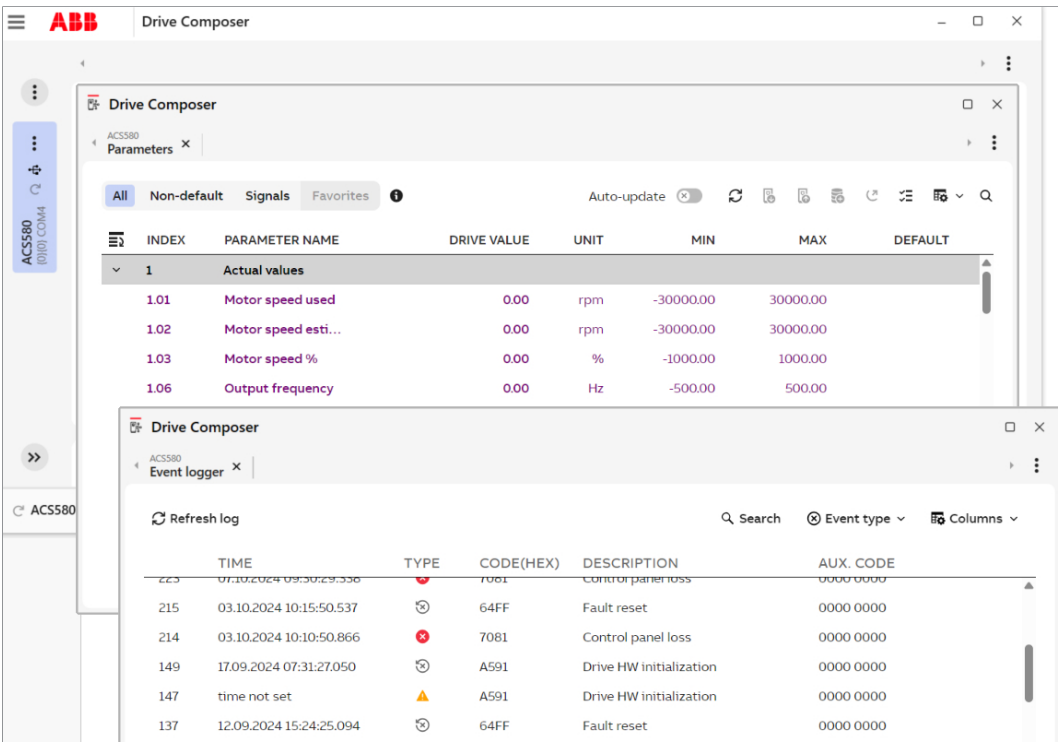
64 Main user interface components



You can set the working area to a floating window. For example, parameter browser, event logger, drive info, etc., can be shown as floating windows. You can also tile the floating windows vertically or horizontally, or cascade. Right-click a tab to view the options below.



- **Float** - This option moves the selected tab window(s) outside the Drive Composer 3 window. You can move, resize, or place the floating window anywhere on the screen, as shown in the figure below.



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- **Dock as Tabbed Document** - moves the selected floating window to a tabbed window. This option is enabled only in a floating window.

The screenshot shows the ABB Drive Composer software interface. On the left is a sidebar with the ABB logo and a tree view showing 'ACS580' and 'COM4'. Two floating windows are open. The top window, titled 'Drive Composer', shows the 'Parameters' tab with a table of 'Actual values'.

INDEX	PARAMETER NAME	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
1	Actual values					
1.01	Motor speed used	0.00	rpm	-30000.00	30000.00	
1.02	Motor speed esti...	0.00	rpm	-30000.00	30000.00	
1.03	Motor speed %	0.00	%	-1000.00	1000.00	
1.06	Output frequency	0.00	Hz	-500.00	500.00	

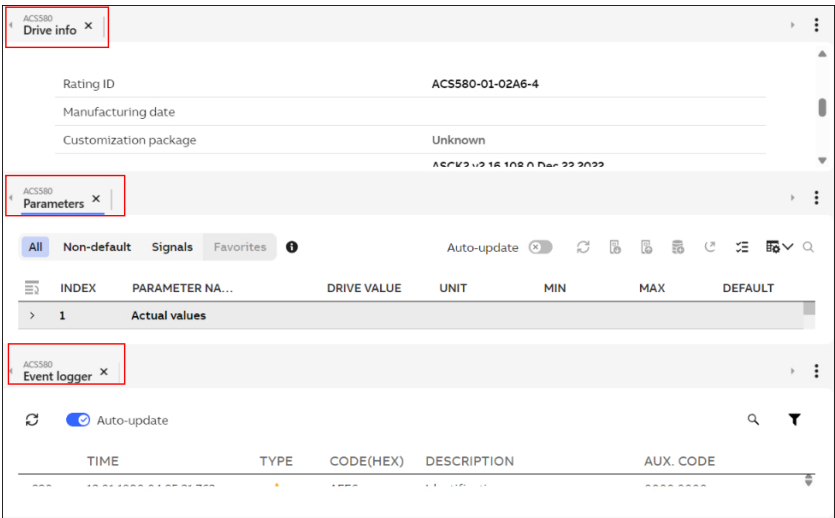
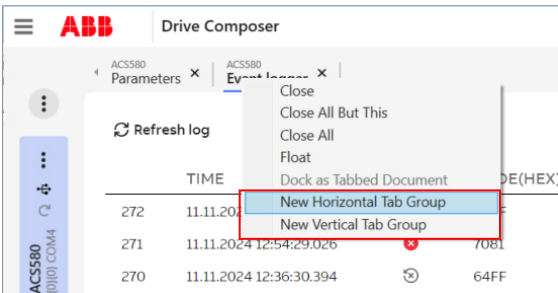
The bottom window, also titled 'Drive Composer', shows the 'Event log' tab. It includes a 'Refresh log' button, a search bar, and a table of events.

TIME	TYPE	CODE(HEX)	DESCRIPTION	AUX. CODE
223	03.10.2024 09:30:29.338	7081	Control panel loss	0000 0000
215	03.10.2024 10:15:50.537	64FF	Fault reset	0000 0000
214	03.10.2024 10:10:50.866	7081	Control panel loss	0000 0000
149	17.09.2024 07:31:27.050	A591	Drive HW initialization	0000 0000
147	time not set	A591	Drive HW initialization	0000 0000
137	12.09.2024 15:24:25.094	64FF	Fault reset	0000 0000

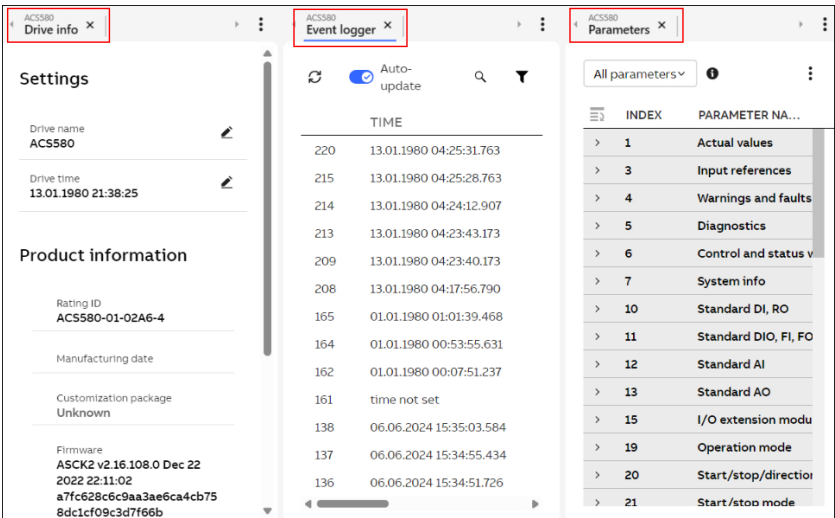
This screenshot shows the same ABB Drive Composer interface, but with the 'Event log' tab selected in the top bar of the main window. The 'Parameters' tab is still visible in the sidebar. The 'Event log' table is updated with more entries.

TIME	TYPE	CODE(HEX)	DESCRIPTION
272	11.11.2024 13:46:22.858	64FF	Fault reset
271	11.11.2024 12:54:29.026	7081	Control panel loss
270	11.11.2024 12:36:30.394	64FF	Fault reset
269	11.11.2024 12:35:06.088	7081	Control panel loss
256	22.10.2024 10:09:20.607	64FF	Fault reset
253	22.10.2024 10:05:44.892	7081	Control panel loss

- **New Horizontal Tab Group** - moves the selected tab window(s) and places them horizontally within the working area.

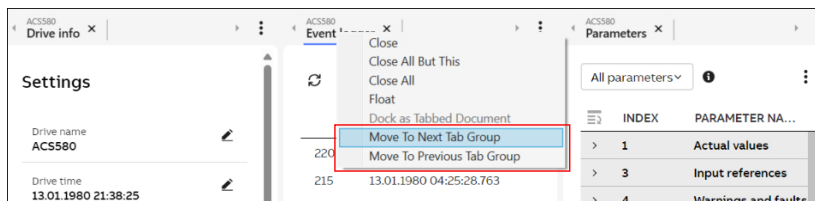


- **New Vertical Tab Group** - moves and places the selected tab window(s) vertically, within the working area.

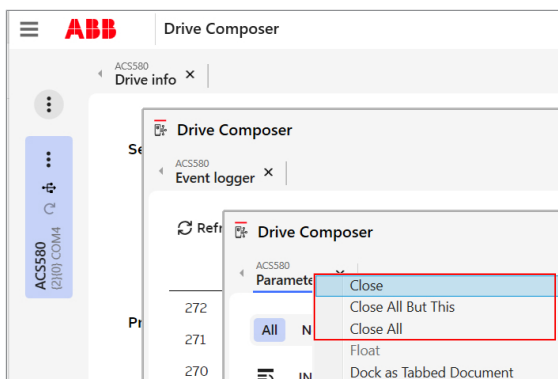


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- **Move To Next Tab Group / Move To Previous Tab Group** - moves the selected tab window to the next or previous tab group.

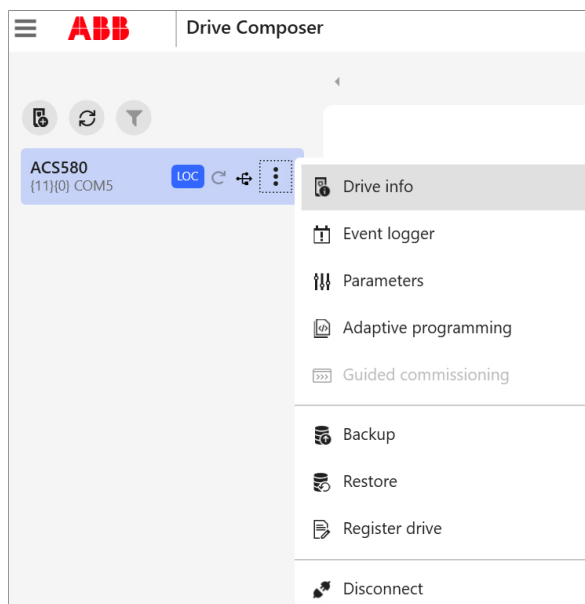


- **Close, Close All But This, Close All** - closes the floating windows according to the selected close option. This option is enabled only in a floating window.



■ Drive info

In the connected drive, click : (vertical ellipsis) to open the Drive context menu. Click **Drive info**.



The Drive info tab provides basic information about the drive and its options. It includes

- **Settings:** Drive name and time. You can edit this information. Refer to [Editing the drive name, time, and date \(page 70\)](#).
- **Product information:** Drive rating ID, firmware version, licenses, Crealizer™ application information, etc.
- **Application details:** Application name and version.

ACS880

Drive info

Settings

Drive name

ACS880

Drive time

6/11/2026 12:45 PM

Product information

Rating ID

999

Manufacturing date

Unknown

Customization package

N/A v0.00.0.0

Firmware

YINFB v1.50.255 Jun 1 2026
16:05:15
c536dd37652d89d698b442771c
7875cc2ce50573

Loading package

YINLB v1.50.255

Drive serial number

Unknown

BIOS version

BIOS version is not applicable
on this device

> Licenses

> Advanced information

< Crealizer application information

Control board device ID

0x4507410429405801000002
40

Memory unit flash ID

0x450100444734303038018E5
25E1D58E3

System info parameter group in parameters

Application details

Application name

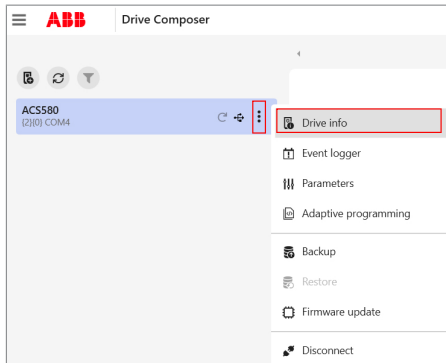
APPLICATION 0.0.0.0

Editing the drive name, time, and date

In the **Drive info** tab, you can edit the drive name and identify the different drives.

Note: The date and time setting depends on the drive model. For example, the ACS380-E drive has no real-time clock (RTC) or control panel. The drive time is lost as soon as you restart the control board. You can set the time in, e.g., parameter 96.20, using PLCs. The parameter depends on the drive model and protocol.

1. In the connected drive, click **:** (vertical ellipsis) and select **Drive info**.



2. In the Drive name field, click **(Edit)** and change the **Drive name**. Click **Save** to accept the changes.

 The screenshot shows a 'Settings' dialog box. The 'Drive name' field contains 'ACS580_drive' and is highlighted with a red box. To the right of the field is a character count '12/200' and two buttons: 'Cancel' and 'Save'. Below this is the 'Drive time' field, which shows '23.05.2024 11:12:27' and has an edit icon. The bottom section is titled 'Product information' and contains fields for 'Rating ID' (999) and 'Manufacturing date' (ASCK2 v2.18.255.6 Apr 18 2023 14:38:22 d48d9af15ea063b96705f8fcbde9d8 ff4e265756).

3. In the Drive time field, click **(Edit)** to change the date and time.
4. Click on the calendar and select the required date. Click **Select** to accept the changes. Click **Reset** to set the current date.

5. Click on the time field and do the following actions:
 - a. Set the clock to 12-hour or 24-hour format.
 - b. Set AM or PM for 12-hour format
 - c. Scroll the mouse Up/Down to select the required time in hr:min: sec format
 - d. Click **Apply** to accept the changes. Click **Reset** to set the current time.
 - e. Click **Save** to accept the changes.

The drive time is updated.

Drive control panel

The drive control panel is located at the bottom of the application. It shows the drive status and different option buttons for controlling a connected drive.



No.	Button name	Description
1	Drive status	Motor icon (clockwise open circle arrow) for drive status indication. Refer to Drives list panel: status indication (page 62) .
2	Eg. ACS580	The name of the connected drive.
3	LOC	Allows controlling the selected drive locally through Drive Composer 3 or allows releasing control of the drive.
4	REM	Allows controlling the selected drive remotely through Drive Composer 3 or allows releasing control of the drive.
5	Stop	Stops the rotation of the motor connected to the currently controlled drive.
6	Start	Starts the currently controlled drive. The motor connected to the drive starts rotating according to the set reference value.
7	Coast stop	Coasts the currently controlled drive to stop.
8	Active reference	The active reference field shows the current reference value used in the drive. You can edit or set a new value.
9	Actual value	The actual value field shows the value used when the drive is running. This value is read-only.
10	Active faults and notifications	Shows any occurrence of drive faults and warnings. Refer to Using the drive control panel to view drive faults (page 74) .
11	Reset	Sends a reset command to the drive. If the fault is not active, the drive clears it. Refer to Using the drive control panel to view drive faults (page 74) .

■ Using the drive control panel to start the drive

1. Set the drive parameter values to start the drive. Refer to the drive firmware manual.
2. On the drive control panel, click the **LOC** (local control) or **REM** (remote control) button.
3. In Active reference, enter a value. Press ENTER or click **Set**.

The screenshot shows a control panel window titled "Reference" with a range of "(-50 - 50)" and a close button "X". Inside the window, there is a text input field containing "50.0", a unit selector "Hz", and a "Set" button. Below the input field, there is a "Coast stop" button with a circular arrow icon. At the bottom of the panel, there are two status indicators: "Active reference" showing "50.0 Hz" and "Actual value" showing "0.0 Hz".

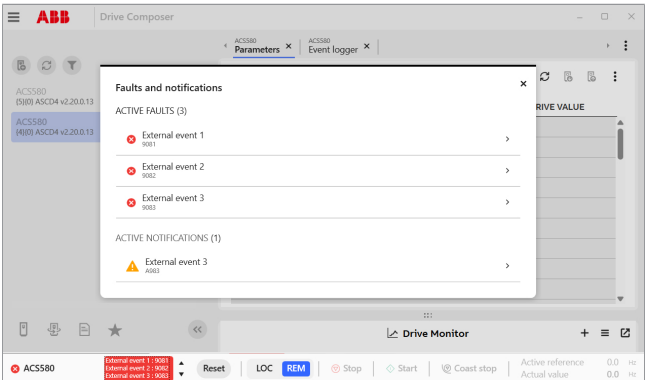
4. Click **Start**.
The drive starts. The indicator box arrow changes to green, and the **Actual value** changes according to the set active reference.

Note: Limit settings in parameter group 30 affect the reference limits.

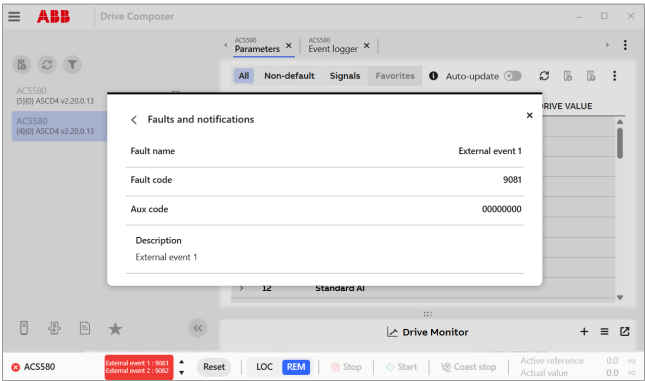
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■ Using the drive control panel to view drive faults

The drive control panel shows drive events such as faults and warnings, e.g., Control panel loss.



Click on the event to view its detailed information. You can click the **Reset** button to clear a fault if it is not active.



Note: The **Reset** button appears only for a fault event and not for a warning.



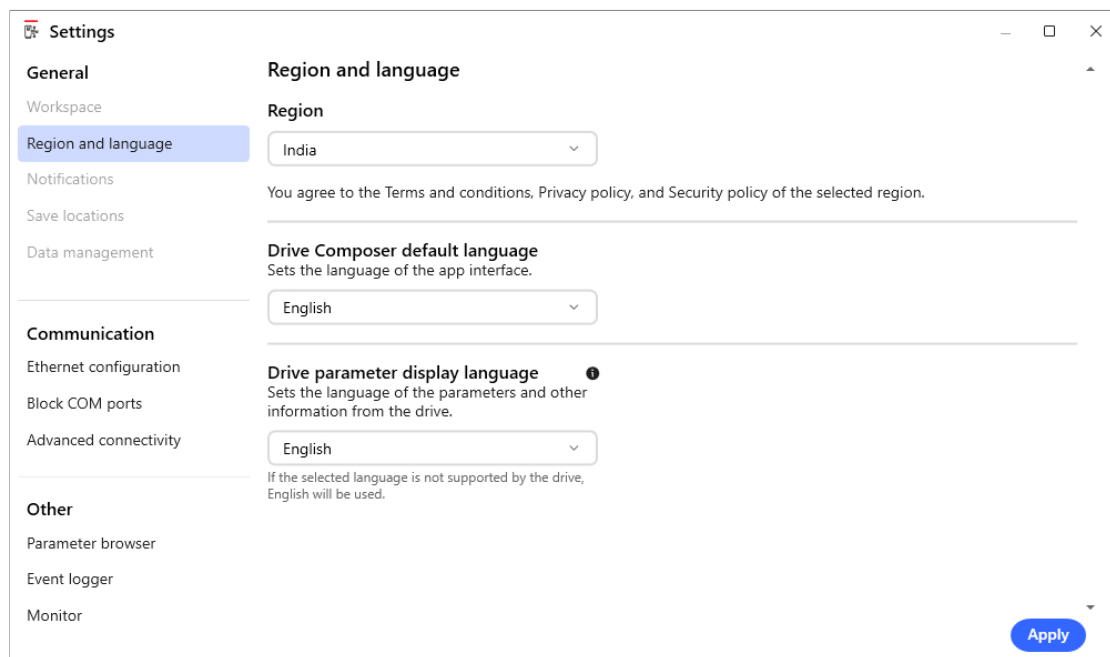
Settings

In the Settings window, you can configure [General settings](#), [Communication settings](#), and [User interface settings](#) for Drive Composer 3.

■ General settings

In the ☰ (Hamburger) menu, go to **Settings** → **General** → **Region and language**. You can select your preferred region and language. The default language is English.

Note: Alternatively, you can open the Settings window from  **Connect to drive** → **Communication settings** and configure the general settings.



By changing the Drive Composer default language, you can always use the same language when you connect Drive Composer to the drive.

The Drive parameter display language selection is active after the drive is connected. If the selected parameter language is not supported, English is used. The changes apply after loading the drive or opening the parameter browser.

Note:

- The Drive parameter language change may not apply immediately if multiple drives are connected.
- The drive parameter backup files show only the language in which they were originally saved.

■ Communication settings

In **Settings** → **Communication** → **Ethernet configuration**, you can configure settings for connecting Drive Composer 3 to the drive.

- Add or remove an IP address (refer to [76](#))
- Scan or block COM ports (refer to [77](#))

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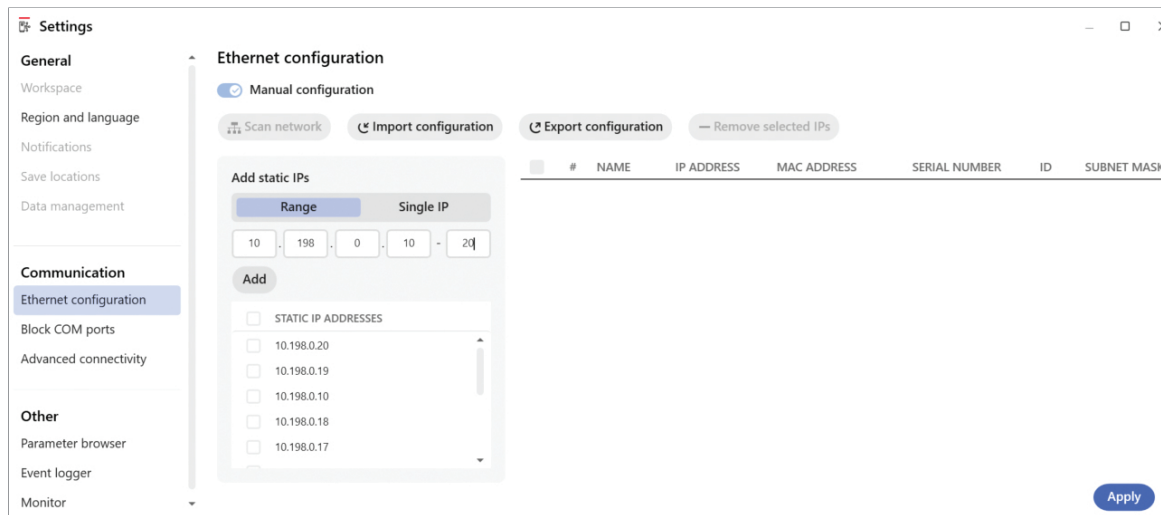
- Import or export Ethernet configuration (refer to [77](#))
- Create a secure network connection (refer to [78](#)).

Note: Alternatively, you can open the Settings window from  **Connect to drive** → **Communication settings** and configure communication settings.

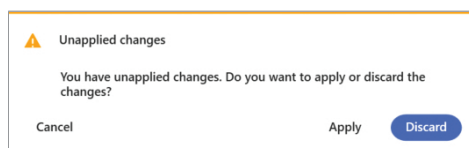
Adding/removing an IP address

To add a single IP address or a range of IP addresses for Ethernet configuration,

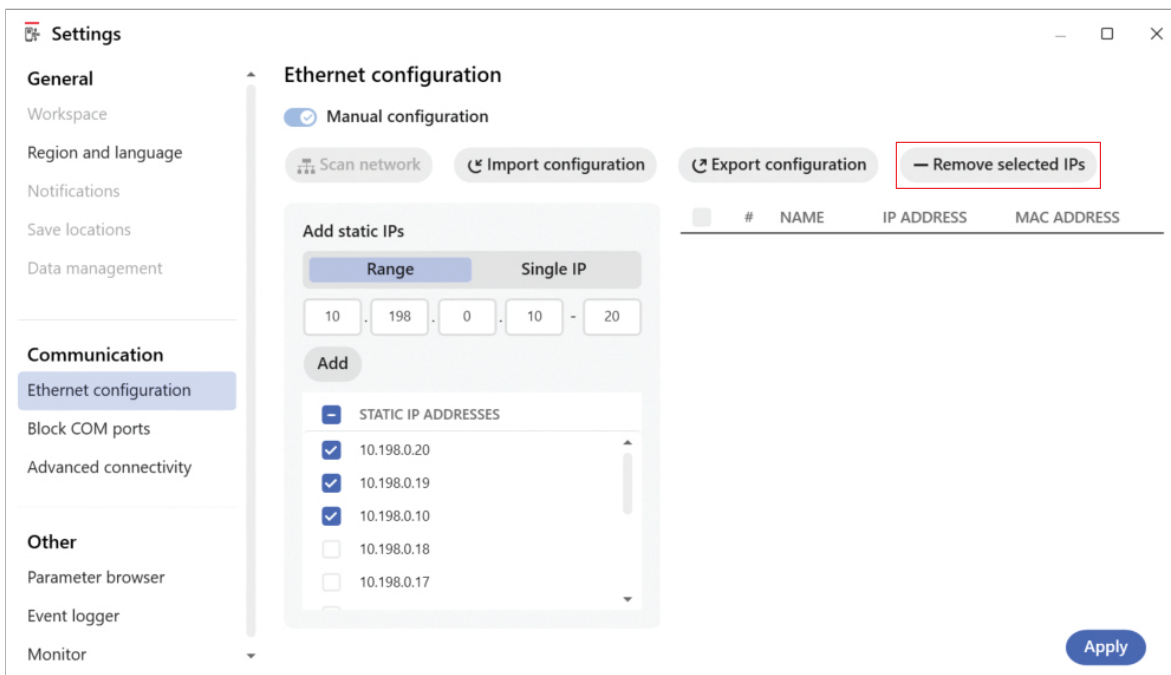
1. Go to **Settings** → **Communication** → **Ethernet configuration**.
2. Under **Add static IPs**, select **Single IP** or **Range** to add a single IP or a range of IPs. Click **Add**.
The IP address appears in the static IP addresses list.
3. Click **Apply** to apply the changes.



If you missed applying the changes, the Unapplied changes message appears. You can click **Apply** to apply the changes or click **Discard**.



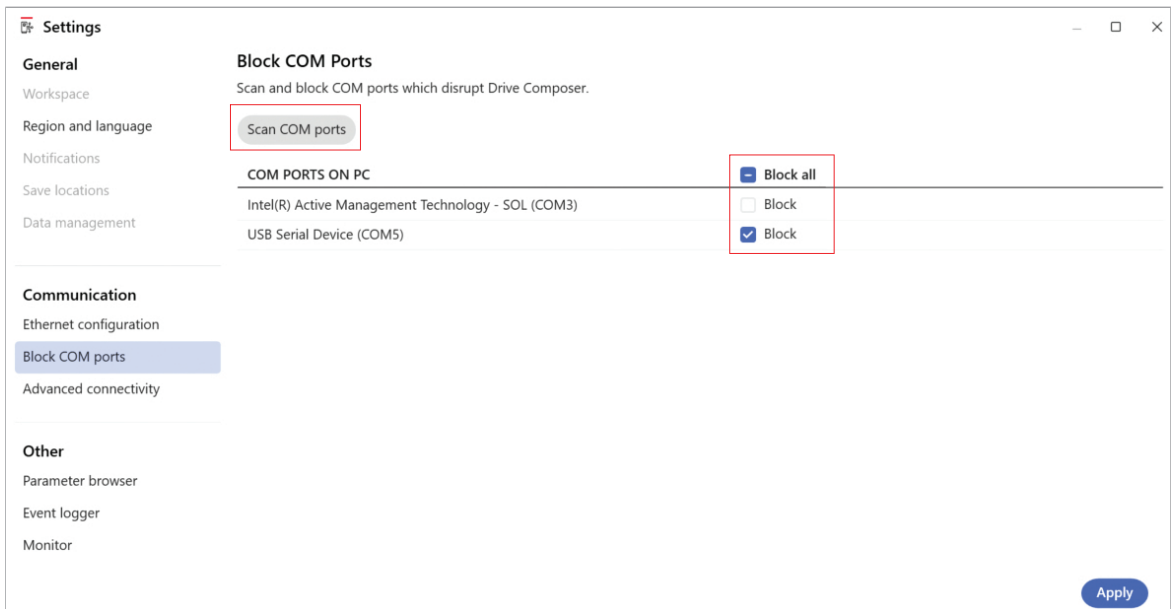
To remove all or selected IP addresses, go to **Communication** → **Ethernet configuration**. In the Static IP addresses list, select the IP address you want to remove and click **Remove selected IPs**. The selected IPs are removed from the list. Click **Apply** to apply the changes.



Scanning/blocking COM ports

To scan the connected communication (COM) ports, go to **Settings** → **Communication** → **Ethernet configuration** → **Block COM ports** and click **Scan COM ports**. The connected ports are listed under COM PORTS ON PC.

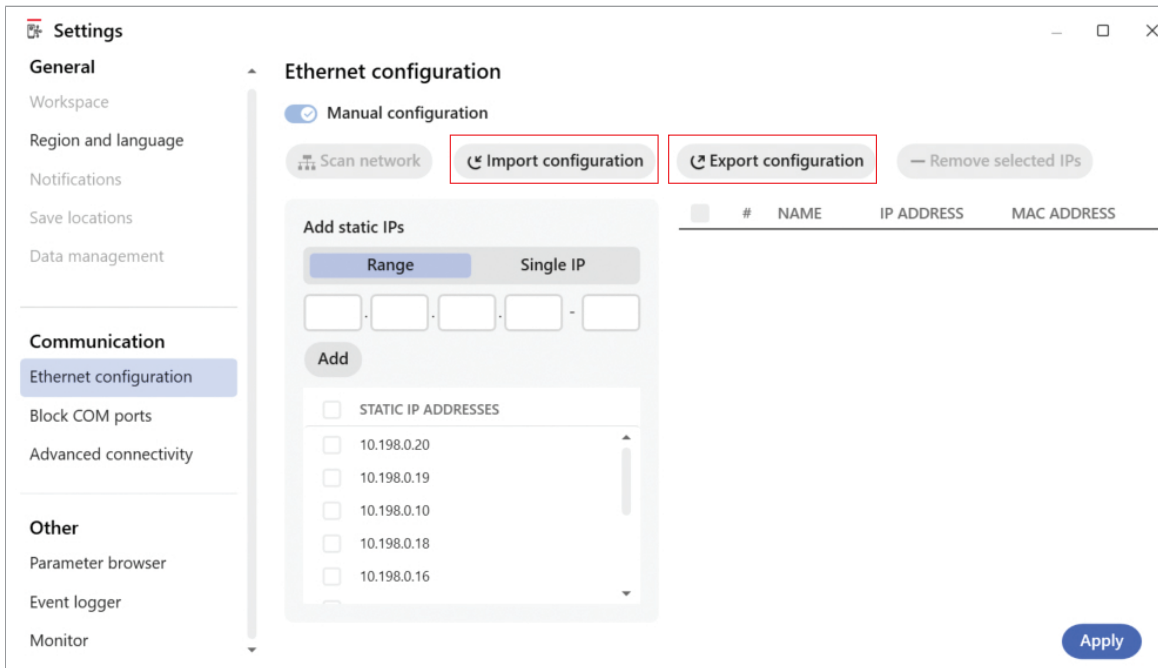
To block the scanned ports, select **Block** or **Block all** and click **Apply**. The selected ports are removed from the COM ports list.



Importing/exporting configuration

To import or export the Drive Composer Ethernet configuration file (*.dcethconf), go to **Settings** → **Communication** → **Ethernet configuration** and click **Import configuration/ Export configuration**.

78 Main user interface components



Advanced connectivity

In **Settings** → **Communication** → **Advanced connectivity**, you can select a self-signed Client certificate to create a secure network connection between the drive and Drive Composer 3. Refer to [Configuring Client certificate \(page 51\)](#).

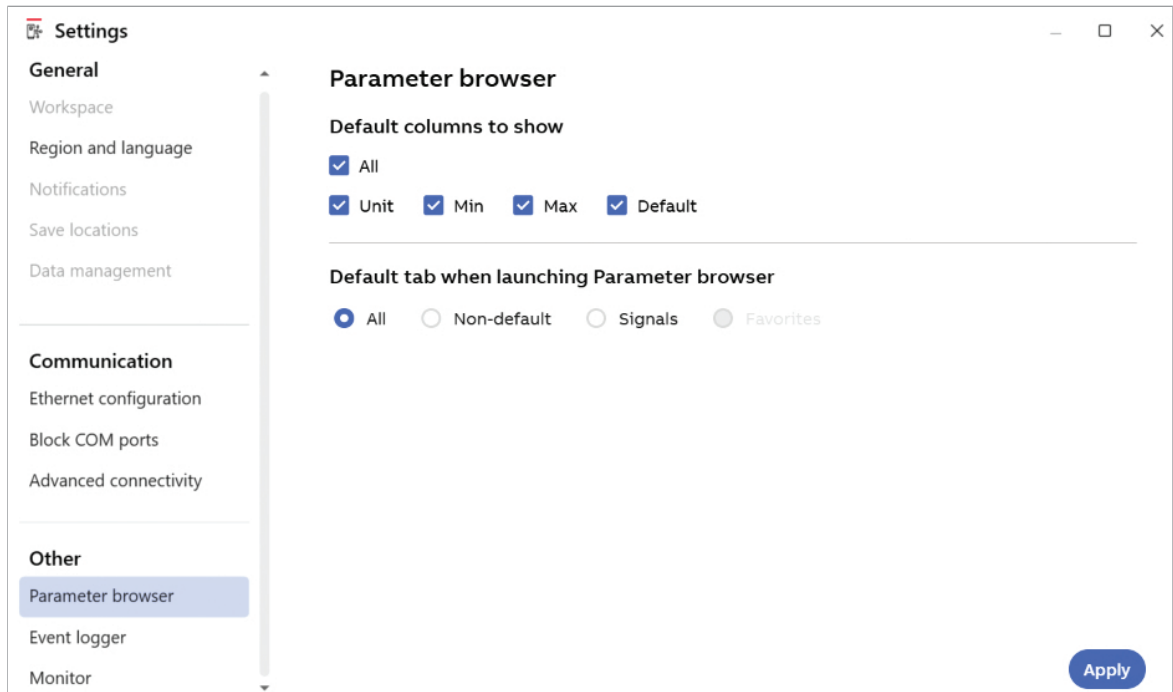
■ User interface settings

In **Settings** → **Other**, you can define default user interface settings for the parameter browser (page 78), event logger (page 79), and drive monitor (page 79).

Alternatively, you can open the Settings window from **Connect to drive** → **Communication settings** and configure the user interface settings.

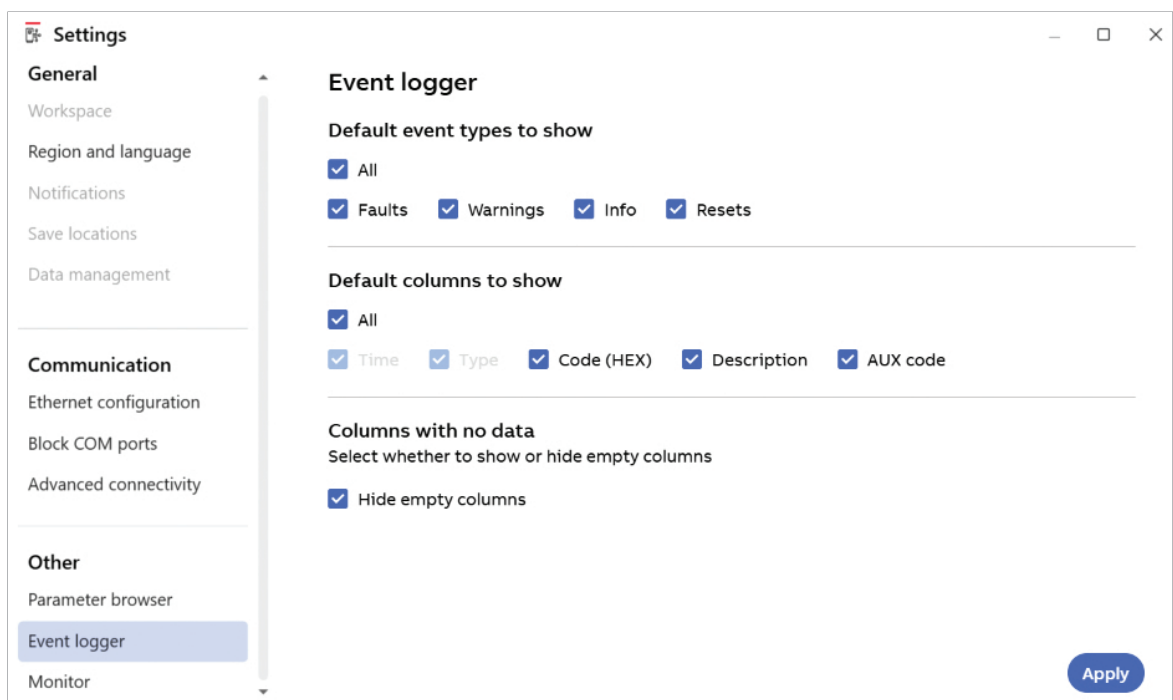
Default settings for parameter browser

In **Settings** → **Other** → **Parameter browser**, you can define the parameter browser settings, for example, select the default columns to show or default tabs when launching the parameter browser.



Default settings for event logger

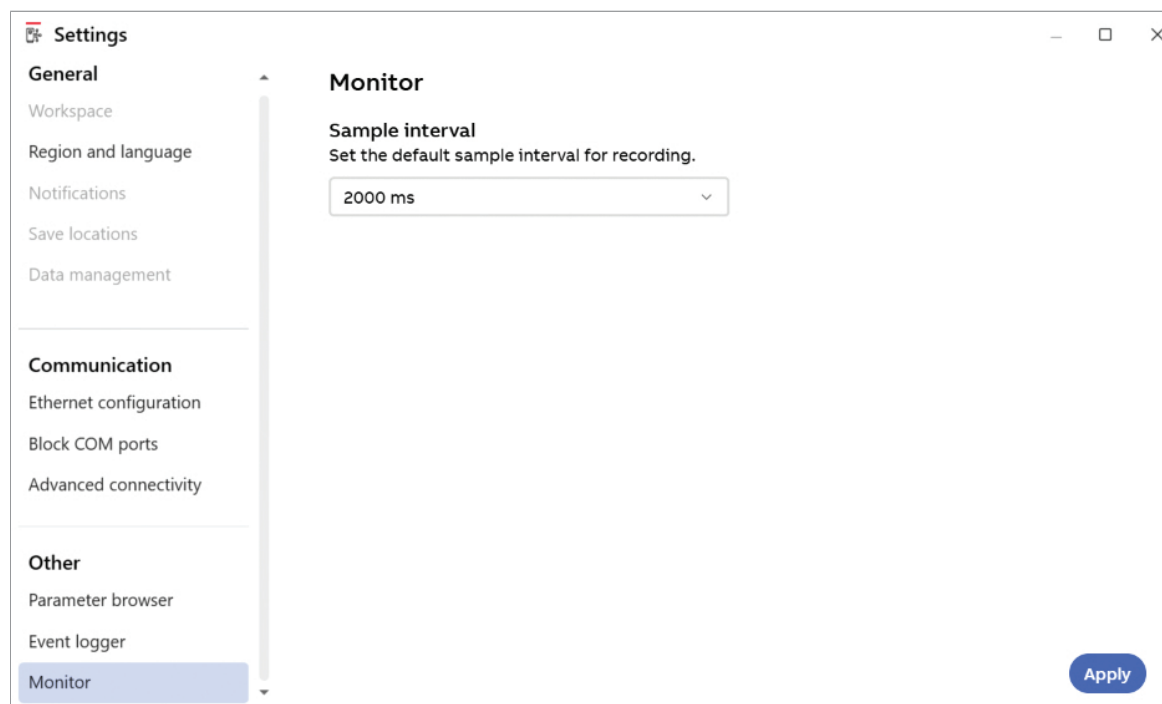
In **Settings** → **Other** → **Event logger**, you can define event logger settings, for example, select the default event types or columns to show, or hide empty columns.



Default settings for the drive monitor window

In **Settings** → **Other** → **Monitor**, you can define monitor window settings, for example, select the default sample interval for recording (1...2000 ms).

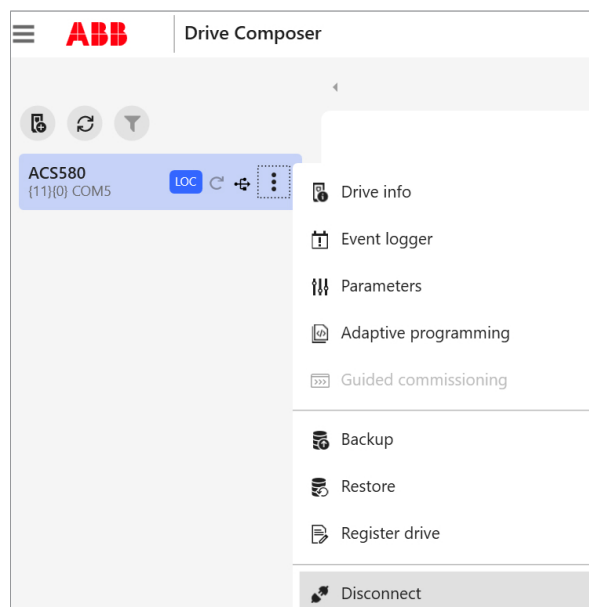
80 Main user interface components



Disconnecting a connected drive

To break the connection between drive and Drive Composer 3, in the drives list panel, click  and select **Disconnect**. This action does not close Drive Composer 3. Refer to [Closing Drive Composer 3 \(page 81\)](#).

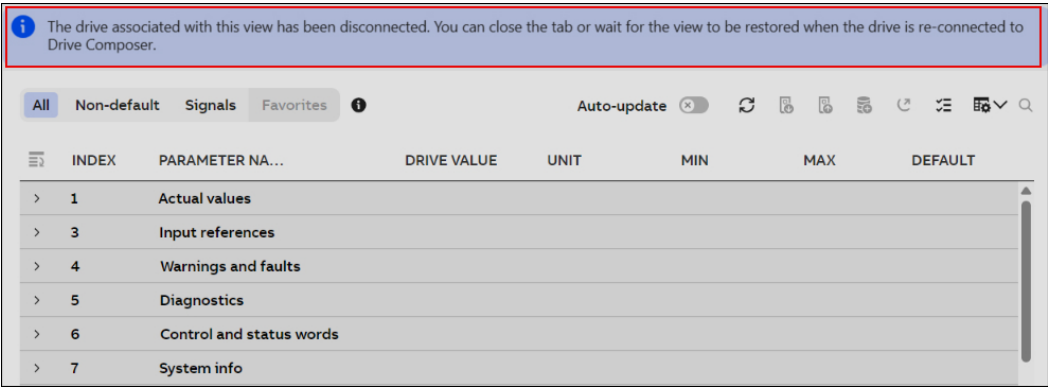
You can connect to the drive again using  (**Connect to drive**) or  (**Refresh**).



Closing Drive Composer 3

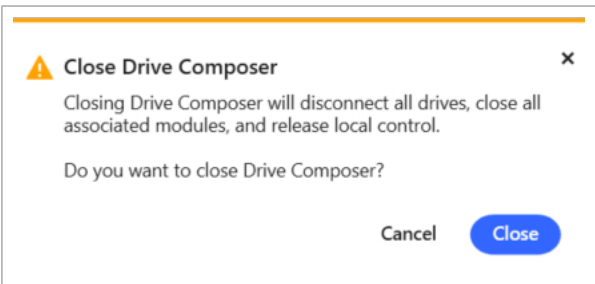
To close Drive Composer 3, go to ☰ (Hamburger) menu and click **Exit**, or in the title bar click **x** (Close).

If no drives are connected, Drive Composer 3 closes immediately. If drives are connected, click **OK** to close the application. Before closing, Drive Composer 3 shows a banner about disconnecting the drive. Obey the instructions in the banner.



Alternate method to close Drive Composer 3

You can close Drive Composer 3 by pressing the shortcut key Alt+F4. The warning to close Drive Composer 3 appears. Do the necessary actions and click **Close** to close Drive Composer 3.



You can disconnect the connection between the drive and Drive Composer 3. Refer to [Disconnecting a connected drive \(page 80\)](#).

Note: If you disconnect the cable from the drive before closing Drive Composer 3, it might take a long time to close Drive Composer 3.

6

Parameters browser

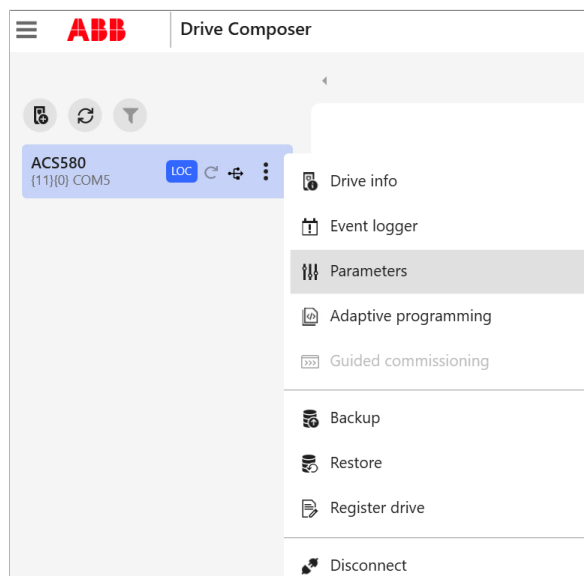
Contents of this chapter

This chapter gives information about the parameters window in Drive Composer 3.

Parameters browser overview

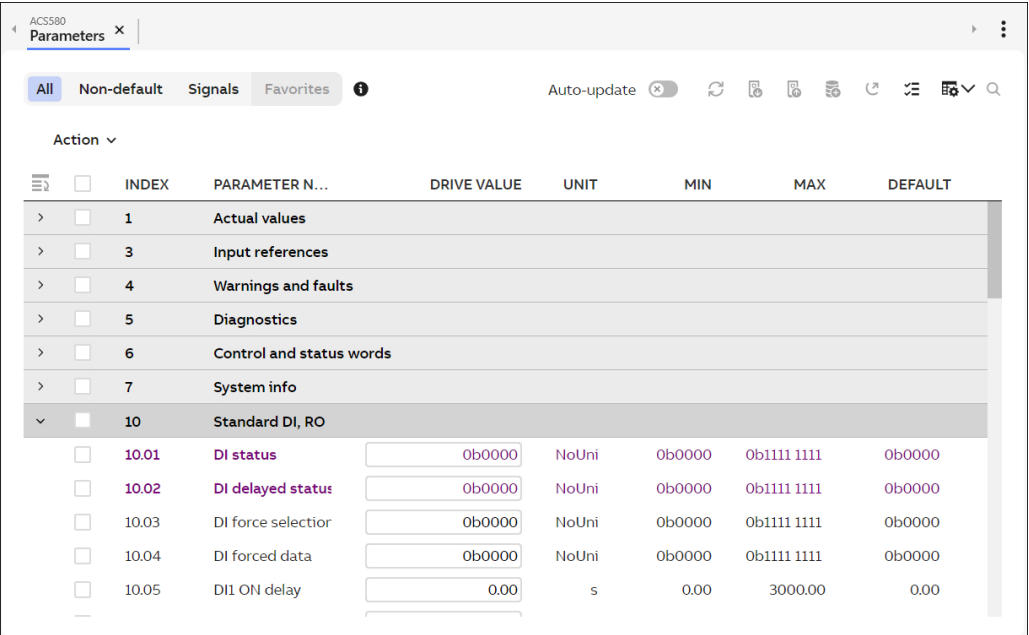
The parameters browser shows parameter groups, parameters, and their values for the associated drive or file. The working area can show several parameter browsers. The headline of each parameter browser shows which drive it belongs to. The parameters browser opens only when the drive is connected.

In the connected drives list, click : (vertical ellipsis) and select **Parameters**.



84 Parameters browser

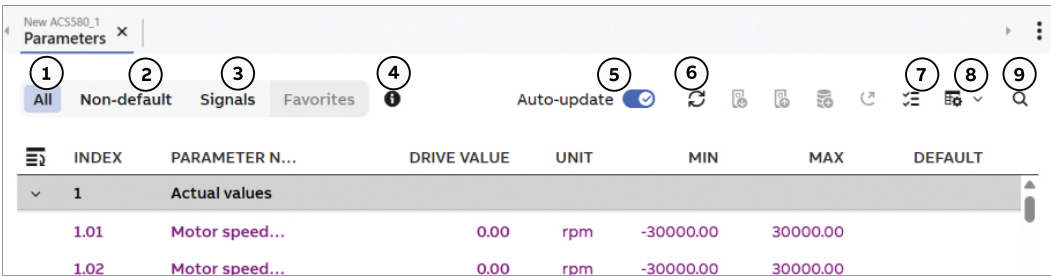
The Parameter browser appears. The parameter view shows: Parameter index, name, values, units, minimum and maximum limits, and default values. In the Settings window, you can define the default columns and tabs to show or hide. For more information, refer to the [Default settings for parameter browser \(page 78\)](#).



To understand the different components of the parameter browser, refer to the sections below:

- [Parameter browser commands \(page 84\)](#)
- [Parameters list representation \(page 85\)](#)
- [Parameter table settings \(page 86\)](#).

Parameter browser commands



No.	Command name/ Icon	Description
1	All	Default parameter view. It shows the available parameters according to the drive configuration.
2	Non-default	Shows the user-changed parameters or group.
3	Signals	Shows the list of write-protected parameters or groups.
4	(info)	Shows information about different parameter views, i.e., All, Non-default, and Signals.
5	(Auto-update)	Activates the option to automatically update the parameters view if any parameter values are changed.

No.	Command name/ Icon	Description
6	 (Refresh)	Refreshes the parameters table within the parameter browser.
7	 (Multi-select mode)	Allows you to select single or multiple parameters or groups. Clicking on the button toggles between the two options. A checkbox appears against each parameter or group.
8	 (Table settings)	Defines the parameter view settings. Refer to Parameter table settings (page 86) .
9	 (Search)	Allows you to search parameters by their index or name.

Parameters list representation

The parameters browser has different types of parameters. The most common type is the normal parameter. Parameters are normally readable and writable. However, when the drive is running, some parameters may be write-protected.

Some of the parameter types are identified by colors or bold fonts as shown below:

- **Normal parameters** appear inside a rectangular box. You can edit the values in the box.

20.03	Ext1 in1 source	D11 ▾
-------	-----------------	-------

- **Signals** appear in bold Red text. You cannot modify the values of signals. If you modify a signal, an error is indicated. Signals are updated cyclically in the parameter browser.

1.01	Motor speed used	0.00
------	-------------------------	-------------

- **Bit names** of a parameter appear in a rectangular box. Refer to the section on [Viewing bit names \(page 90\)](#).

Double-click on the value to view the bit values in a new browser. You can select the value format (Bin, Hex, or Dec) and edit the value. Click **Apply** to update the changes or click **Reset to default**.

10.22	RO force selection	0b0000
-------	--------------------	--------

- **Edited parameter values** appear in an Orange background.

20.01	Ext1 commands	In1 Start ▾
-------	---------------	-------------

- **Parameter value is set from another parameter**, for example, in the ACS580 drive, parameter 15.07 is set from parameter 10.1, bit 1. Refer to [Pointer parameters overview \(page 91\)](#).

- **Parameter value is an inverted bit of another parameter**, for example, parameter 11.6 is an inverted bit of parameter 10.1, bit 1. Refer to [Inverting a bit pointer \(page 93\)](#).

11.6 DIO1 output source P.10.1.1

The value of a parameter is read only once. If it is necessary to update this value, right-click and select **Refresh** or select **Reset to default value**.

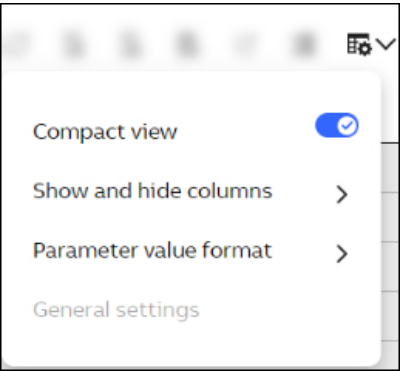
You can copy the parameter details as plain text. To copy, right-click on a parameter and select **Copy to clipboard**. The copied information includes the drive name, COM port, parameter index, parameter name, and drive value separated by a blank space, as shown in the example below.

Example: ACS580 {1}{0} COM4 15 8 RO4 ON delay 0.0

You can set all visible parameters to update automatically by enabling the **Auto-update** button. For description, refer to [Parameter browser commands \(page 84\)](#).

Parameter table settings

You can configure the settings below in the parameter view:



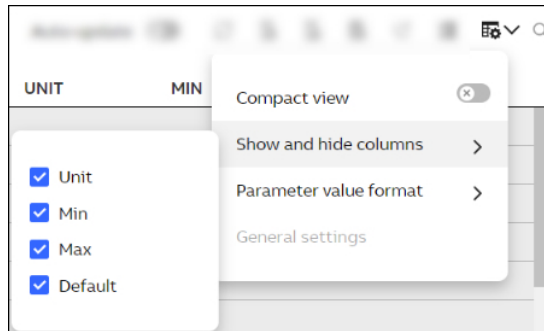
- **Compact view** - allows selecting a compact or simplified parameter view.
If enabled, the parameter view shows only information about the index, parameter name, and drive value.

	INDEX	PARAMETER NAME	DRIVE VALUE
▼	1	Actual values	
	1.01	Motor speed used	0.00
	1.02	Motor speed estimated	0.00
	1.03	Motor speed %	0.00

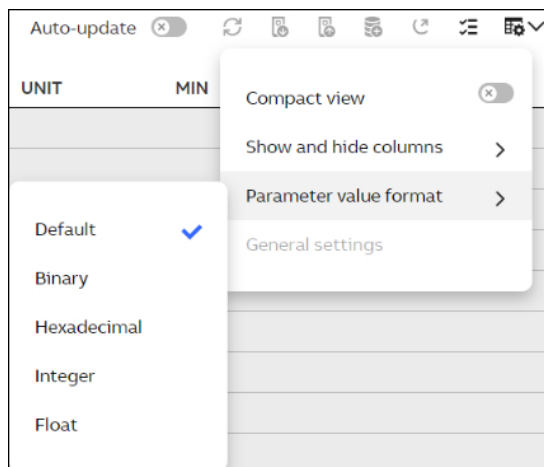
If disabled, the parameter view shows all the columns of the parameter table, e.g., index, parameter name, drive value, unit, min/max values, and default value.

	INDEX	PARAMETER NA...	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
▼	1	Actual values					
	1.01	Motor speed used	0.00	rpm	-30000.00	30000.00	0.00
	1.02	Motor speed estim	0.00	rpm	-30000.00	30000.00	0.00
	1.03	Motor speed %	0.00	%	-1000.00	1000.00	0.00

- **Show and hide columns** – enables showing/hiding columns in the parameter view, such as Unit, Min, Max, and Default. You can check or uncheck the required columns.



- **Parameter value format** – allows selecting an alternate parameter format, such as Default, Binary, Hexadecimal, Integer, and Float.



Navigating parameters and groups

■ Updating parameter values

Parameter values are updated if they are modified.

- To modify a parameter value, click the parameter and edit the highlighted parameter value.

INDEX	PARAMETER N...	DRIVE VALUE
50	Fieldbus adapter (FBA)	
50.01	FBA A enable	Enable ▾
50.02	FBA A comm lo...	No action ▾
50.03	FBA A comm lo...	0.3
50.04	FBA A ref1 type	Speed or f... ▾

- To update a parameter group value, right-click the group name and select **Refresh**.

88 Parameters browser

INDEX	PARAMETER N...	DRIVE VALUE	UNIT
50	Fieldbus adapter (FBA)		
50.01	FBA A enable		No...
50.02	FBA A comm lo...		No...
50.03	FBA A comm lo...		s
50.04	FBA A ref1 type		No...
50.05	FBA A ref2 type		No...

- To update a parameter value, right-click the parameter and select **Refresh**.

INDEX	PARAMETER N...	DRIVE VALUE	UNIT	MIN	MAX
50	Fieldbus adapter (FBA)				
50.01	FBA A enable	Enable			
50.02	FBA A comm lo...	No action			
50.03	FBA A comm lo...	0.3			
50.04	FBA A ref1 type	Speed or f...			
50.05	FBA A ref2 type	Speed or f...			
50.06	FBA A SW sel	Auto			
50.07	FBA A actual 1...	Speed or f...			

■ Hidden parameters

In special cases, hidden parameters and groups are shown after you modify the parameter values. The banner "Parameter values applied successfully to the drive" appears. The parameter browser automatically refreshes the loaded groups.

All

Non-default

Signals

Favorites

Auto-u

Parameter value successfully applied to drive.

≡

INDEX

PARAMETER N...

DRIVE VALUE

UNIT

MIN

MAX

DEFAULT

>

40

Process PID set 1

>

41

Process PID set 2

>

44

Mechanical brake control

>

45

Energy efficiency

>

46

Monitoring/scaling settings

>

47

Data storage

>

49

Panel port communication

▼

50

Fieldbus adapter (FBA)

50.01

FBA A enable

Enable

▼

No...

Enable

50.02

FBA A comm lo...

No action

▼

No...

No action

50.03

FBA A comm lo...

0.3

s

0.3

6553.5

0.3

The parameter table can be refreshed without closing the parameter browser, using the **Refresh** command from the parameter group, parameter, or parameter table. For example, parameter names in group *51 FBA A settings* are visible when the adapter module is enabled in group *50 Fieldbus adapter (FBA)*. For more information, refer to [Updating parameter values \(page 87\)](#) and [Parameter browser commands \(page 84\)](#).

■ User lock parameters

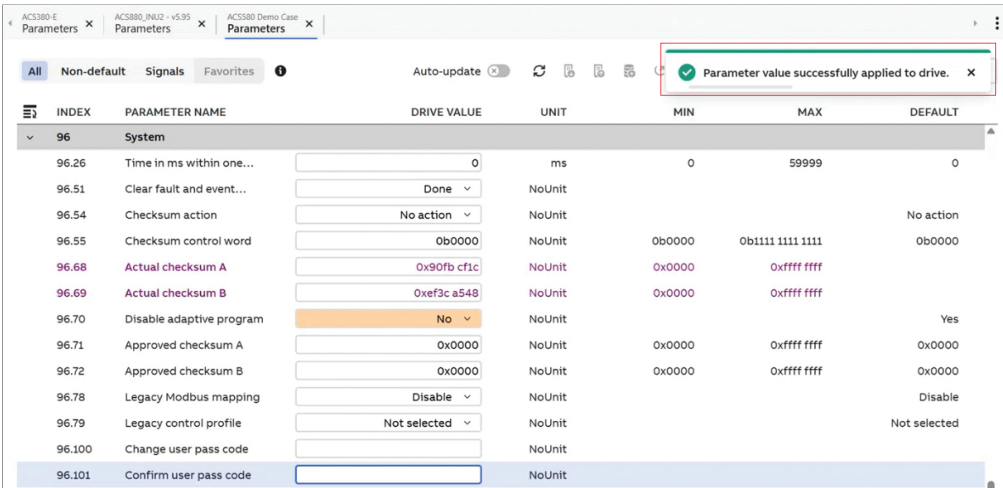
The user lock parameters in group 96 or 196 are secured with a pass code. The parameters are available after you unlock the code in parameter *96.02 Pass code*. For more information, refer to the section *User lock* in the firmware manual.

The drive control panel shows a warning for any user lock event, e.g., User pass code not changed: A6B2.

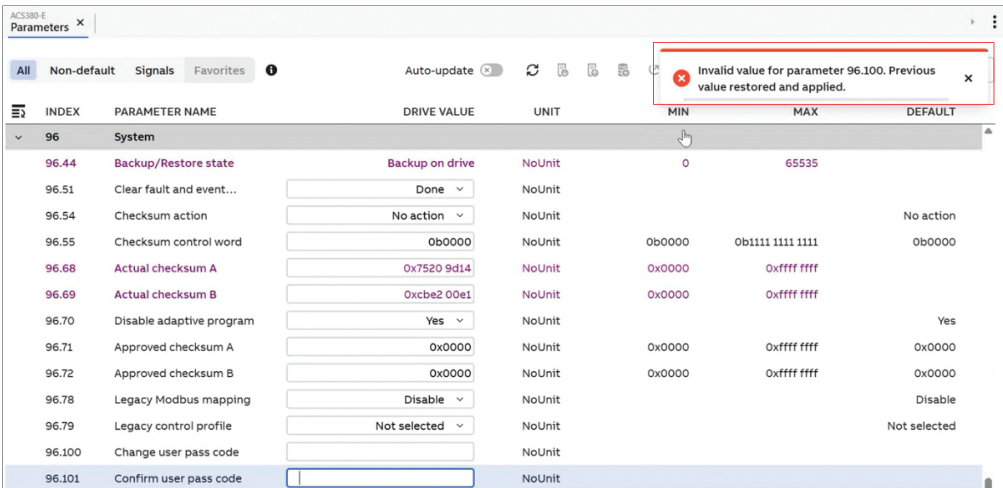


Drive Composer shows the following messages based on the pass code entry:

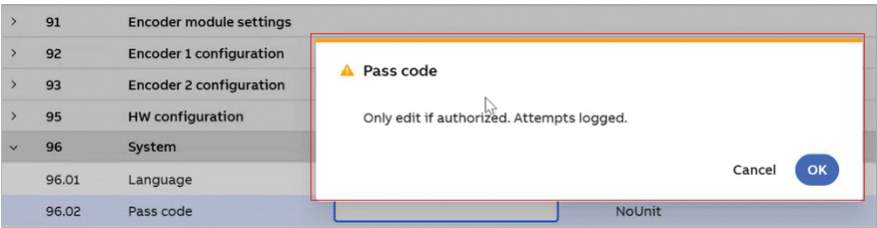
- A valid password shows "Parameter value successfully applied to the drive."



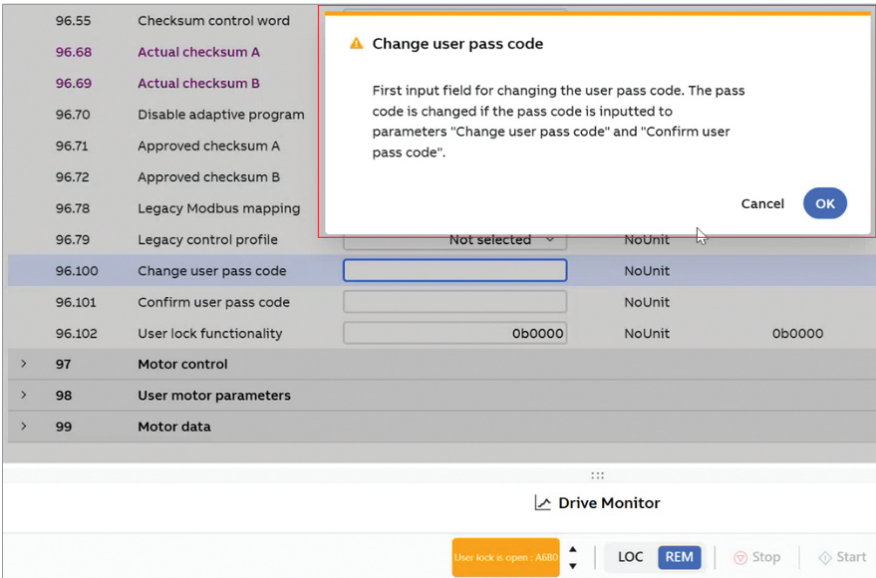
- An invalid password shows a failed or invalid message. For example, "Invalid value for parameter 96.100 Previous value restored and applied." or "Failed to apply value. Parameter 96.02 is set to the value read from the drive."



For drives with UCU control unit (YINL): In the Drive Composer 3 parameter browser, when you edit the user lock parameters or press ? (Help). The pop-up message below appears in the Assistant control panel.

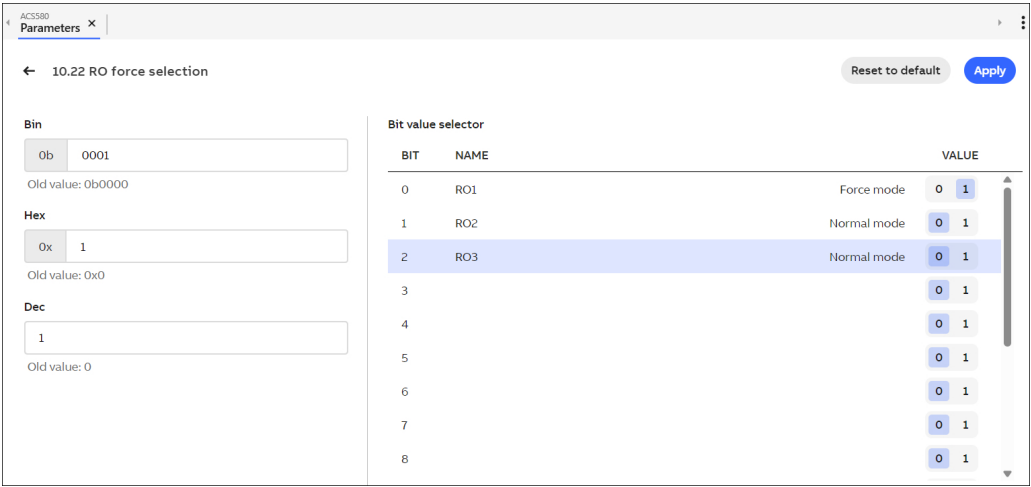


90 Parameters browser



■ Viewing bit names

Click the value field box to view the bit names of certain binary parameters. For example, refer to parameter *10.22 RO force selection*. The bit value selector appears in a different view when the Drive Composer 3 window is minimized or maximized.



Bit value selector in maximized Drive Composer 3 window

ACS580
Parameters x

← 10.22 RO force selection Reset to default Apply

Bin Hex Dec

0b 0001

Old value: 0b0000

Bit value selector

BIT	NAME	VALUE
0	RO1	Force mode 0 1
1	RO2	Normal mode 0 1
2	RO3	Normal mode 0 1
3		0 1
4		0 1
5		0 1

Bit value selector in minimized Drive Composer 3 window

In the bit value selector, you can set the bit values in binary, hexadecimal, or decimal formats. You can enter a new value or directly set 0 or 1 in the value column.

When you start editing the bit value, the new value appears in the edit box, and the old value appears below the edit box. The value edited in, e.g., binary format, shows an equivalent value in the other two formats, i.e., hexadecimal and decimal. The value in the bit value selector automatically changes while you are editing. To accept the new value, click **Apply**. The message *"Parameter applied to drive"* appears.

If you entered a wrong value, the message *"Invalid parameter value. The value of parameter xx.xx is reverted and applied"* appears.

To set the default bit values, click **Reset to default**. The message *"Parameter value is set to default. The parameter is removed from the non-default parameter view"* appears.

■ Pointer parameters overview

A pointer parameter is a special parameter that reads the value from the parameter it points to. For example, refer to parameter *21.05 Start/stop mode*. Depending on the pointer parameter, value, or bit pointer, its target can be another parameter or one of its bits. You can assign Active (false) or Inactive (true) status to some pointer parameters.

92 Parameters browser

INDEX	PARAMETER NAME	DRIVE VALUE	UNIT
21	Start/stop mode		
21.05	Emergency stop source	Active (false)	NoUnit
21.06	Zero speed limit	Active (false)	rpm
21.07	Zero speed delay	Other	ms
21.08	DC current control	Active (false)	NoUnit
21.09	DC hold speed	Inactive (true)	rpm
21.10	DC current reference	DI1	%
21.11	Post magnetization ti...	DI2	s
21.14	Pre-heating input sou...	DI3	NoUnit

← 21.05 Emergency stop source - Other value

New value

P.12._._

Drive value: P... 1

☐ Invert bit

Pointer parameter selector

Search with parameter name

> 1 Actual values

> 3 Input references

> 4 Warnings and faults

> 5 Diagnostics

> 6 Control and status words

> 7 System info

> 10 Standard DI, RO

> 11 Standard DIO, FI, FO

> 12 Standard AI

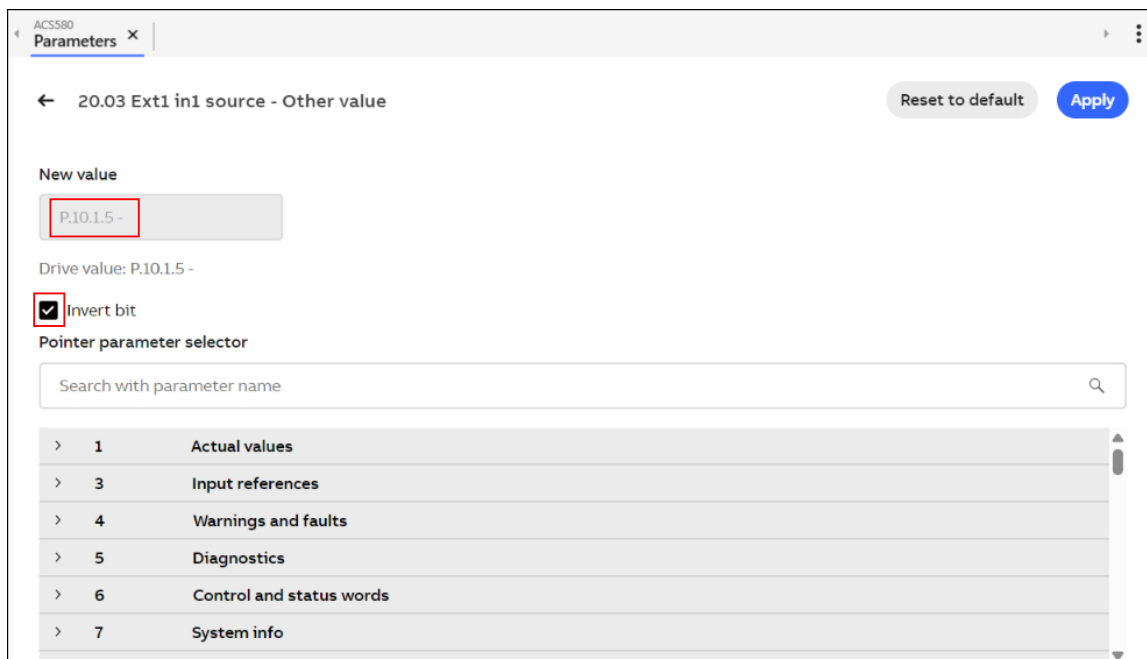
12.02 AI force selection

Typically, common settings are offered as a selection list. You can set the pointer by selecting **Other...** from the selection list, as shown in the above figure. In the Pointer parameter selector window, select a parameter from the list for a value pointer and then its bit from 0 to 31 for a bit pointer.

Use the value form P._._, where the first _ is the parameter group number, the second _ is the parameter number, and the third _ is the bit number without leading zeros (for example, P.12.11.9). The constant values are Active (false) or Inactive (true).

Inverting a bit pointer

In the pointer parameter window, select the Invert value check box.



The inverted bit pointer value is shown with the minus sign at the end of the parameter.

20	Start/stop/direction				
20.01	Ext1 commands	In1 Start; In2 Dir	NoUnit	In1 Start; In2 ...	
20.02	Ext1 start trigge...	Level	NoUnit	Level	
20.03	Ext1 in1 source	P.10.1.5 -	NoUnit	DI1	
20.04	Ext1 in2 source	DI2	NoUnit	DI2	

Setting fieldbus data in/out parameters

Process data transferred to and from the drive/PLC is set with parameter groups 52 and 53. With an ACS880 drive, it is possible to select the data type for each selected parameter/signal in these groups.

1. Double-click FBA data in/out parameter and select **Other**.
2. Select the format in which the value is handled: 16-bit, 32-bit, or floating point format.
In the parameter browser, the selections are shown inside brackets: [16], [32], or [F].

The floating point or 32-bit value reserves two slots in the configuration. Consequently, if you try to select a value for parameter **52.04** as in the above figure, a Parwrite failed error message appears.

Refer to the scalings of parameters/signals in the ACS880 primary control program firmware manual (3AUA0000085967 [English]).

Always check the parameter mapping from the manual of the used fieldbus protocol. For example, FENA-01/-11/-21 Ethernet adapter module user's manual (3AUA0000093568 [English]) or FPBA-01 PROFIBUS DP adapter module user's manual (3AFE68573271 [English]).

■ Binary parameters

Binary parameters have a special meaning for each of their bits. These parameters are modified in a special Set binary parameter dialog. You can edit the value numerically in binary, hexadecimal, or decimal format.

10.22 RO force selection

Reset to default Apply

Bin: 0b0111
Old value 0b0000

Hex: 0x7
Old value 0x0

Dec: 7
Old value 0

Bit value selector

BIT	NAME	VALUE
0	RO1	0 1
1	RO2	0 1
2	RO3	0 1
3	3	0 1
4	4	0 1
5	5	0 1
6	6	0 1
7	7	0 1
8	8	0 1
9	9	0 1
10	10	0 1
11	11	0 1
12	12	0 1

0=false, 1=true

- One way to edit the value in the field is to double-click the value field for each bit. Some bits may be greyed out or disabled from editing.
- Another way to modify a bit is to select the format type (Bin/Hex/Dec) and edit the value directly in the value field.

Search parameter names

You can search the parameter names inside the parameter browser. The search result is a list of all parameters that match the search text criteria. For example, all torque-related parameters can be found by entering the search criteria as “torque”. To clear the search text, click x inside the search box.

ACS380 Parameters

All Non-default Signals Favorites Auto-update

torque

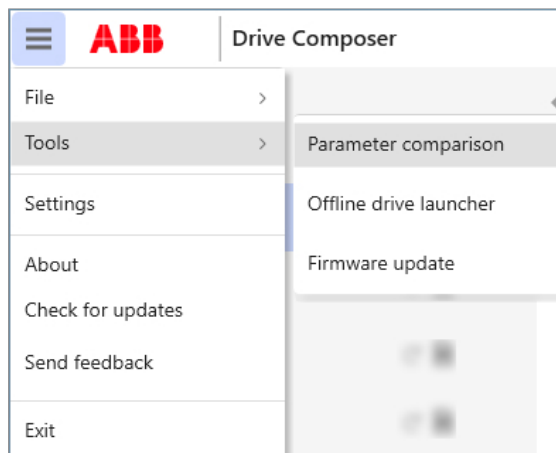
INDEX	PARAMETER NAME	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
1	Actual values	0.0				
1.10	Motor torque	0.0	%	-1600.0	1600.0	
1.30	Nominal torque scale	289.958	Nm	0.000	4000000.000	
1.64	Abs motor torque	0.0	%	0.0	1600.0	
5	Diagnostics					
5.84	Motor torque at fault	0.0	%	-1600.0	1600.0	
21	Start/stop mode					
21.27	Torque boost time	20.0	s	0.0	60.0	20.0
25	Speed control					
25.01	Torque reference...	0.0	%	-1600.0	1600.0	
25.38	Autotune torque step	10.00	%	0.00	20.00	10.00
25.53	Torque prop reference	0.0	%	-30000.0	30000.0	
25.54	Torque integral...	0.0	%	-30000.0	30000.0	
25.55	Torque deriv reference	0.0	%	-30000.0	30000.0	
30	Limits					
30.02	Torque limit status	0b0000	NoUnit	0b0000	0b1111 1111 11...	
30.19	Minimum torque 1	-300.0	%	-1600.0	0.0	-300.0
30.20	Maximum torque 1	300.0	%	0.0	1600.0	300.0

Comparing parameters

The **Parameter comparison** function compares the parameter values. You can compare parameters between

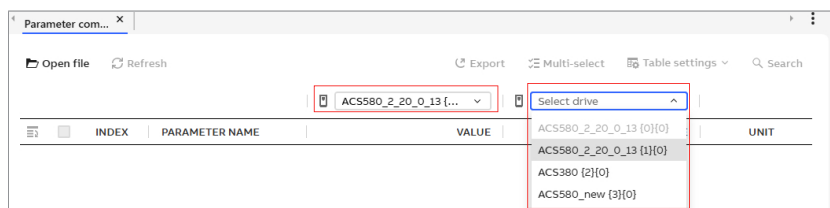
- two drives
- two backup files
- a drive and a backup file
- a drive and an offline drive
- two offline drives.

1. From the Hamburger menu, go to **Tools** → **Parameter comparison**.



The Parameter comparison tab appears.

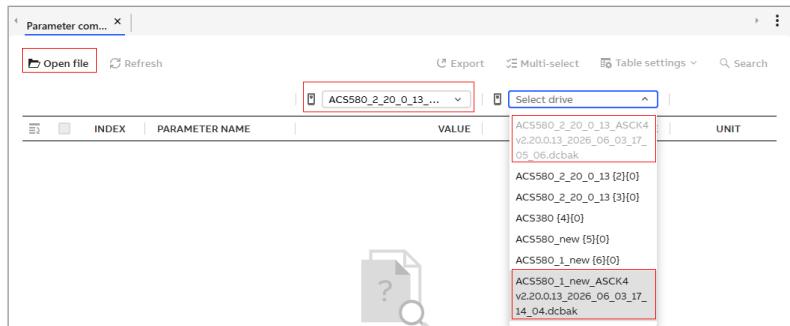
2. Comparing two drives: In the two **Select drive** drop-down lists, select the two drives you want to compare.



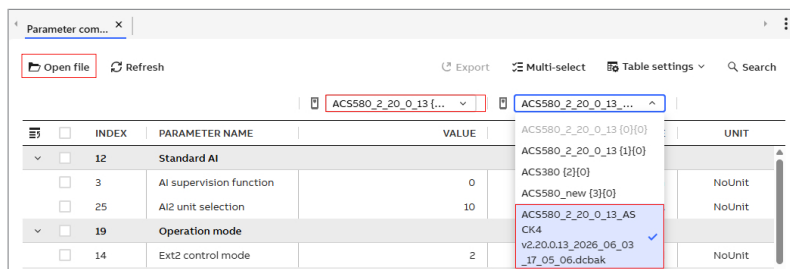
The comparison starts, and results appear in the parameter table according to the filters. Refer to [Table settings for parameter comparison \(page 98\)](#).

Note: If you disconnect a drive used for comparison, the drive is removed from the list. The message "Drive disconnected and removed from comparison" appears. The comparison is reset, and you can select another drive for comparison.

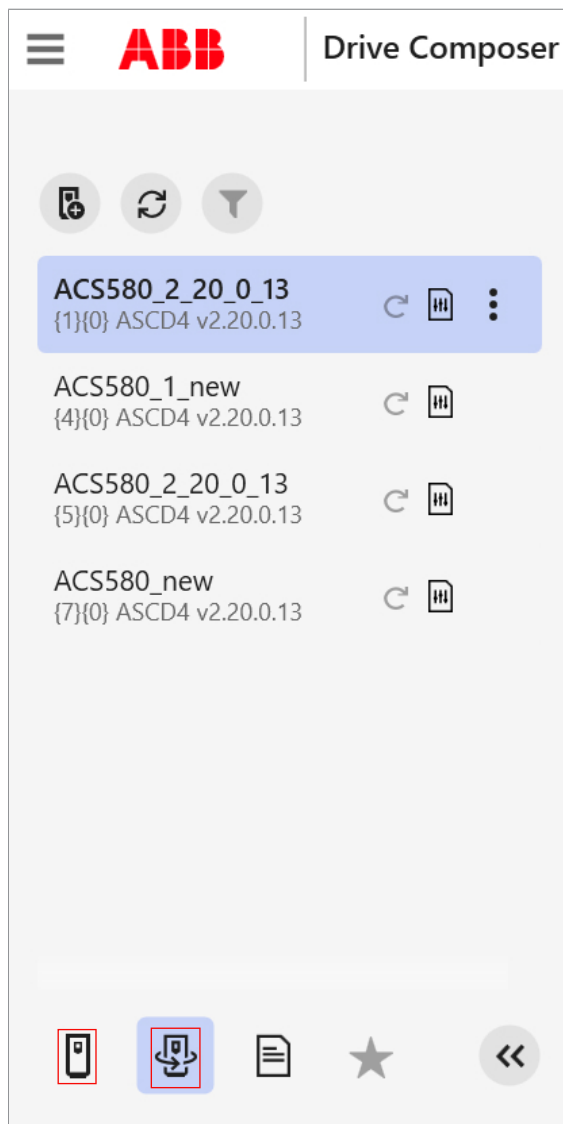
3. Comparing two backup files: Make sure you have the backup (*.dcbak) files on your PC.
 - a. In the parameter browser, click **Open file**.



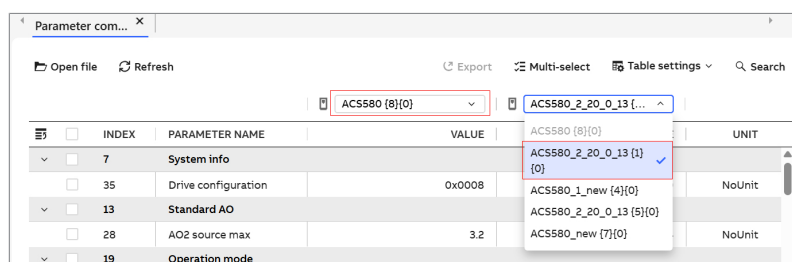
- b. Open the *.dcbak files from your PC.
The "Backup file opened" message appears.
 - c. In the two **Select drive** drop-down lists, select the two files for comparison.
The comparison starts, and results appear in the parameter table according to the filters. Refer to [Table settings for parameter comparison \(page 98\)](#).
Note: If you disconnect a backup file used for comparison, the file is removed from the list. The message "Drive disconnected and removed from comparison" appears. The comparison is reset. You can select another file for comparison.
4. Comparing a drive and a backup file: Make sure the drive is connected and you have the backup (*.dcbak) file on your PC.
- a. In the first **Select drive** drop-down list, select a drive you want to compare with the backup file.



- b. In the parameter browser, click **Open file** and upload the *.dcbak file on your PC.
The "Backup file opened" message appears.
 - c. In the second **Select drive** drop-down list, select the backup file you want to compare with the drive.
The comparison starts, and results appear in the parameter table according to the filters. Refer to [Table settings for parameter comparison \(page 98\)](#).
Note: If you disconnect a drive or a backup file used for comparison, it is removed from the list. The message "Drive disconnected and removed from comparison" appears. The comparison is reset, and you can select another drive or backup file for comparison.
5. Comparing a drive and an offline drive: Make sure the drive is connected and the offline drives are enabled. Refer to the [View an offline drive \(page 154\)](#).
- In the Drive connection panel, you can click the drive or the offline drive buttons to view the connected or offline drives.



- a. In the first **Select drive** drop-down list, select the drive you want to compare with the offline drive.

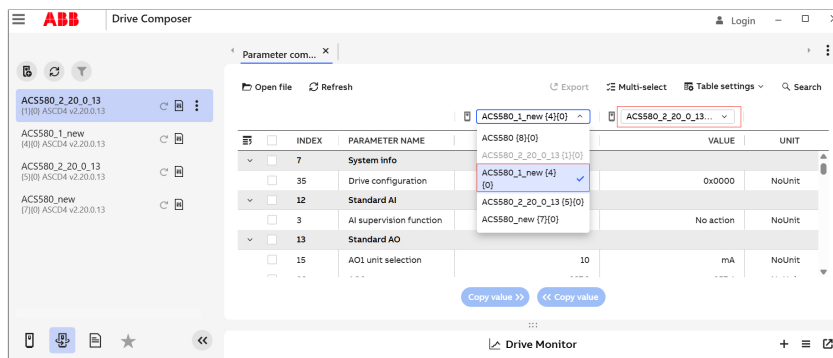


- b. In the second **Select drive** drop-down list, select the offline drive you want to compare with the drive.

The comparison starts, and results appear in the parameter table according to the filters. Refer to [Table settings for parameter comparison \(page 98\)](#).

Note: If you disconnect a drive or an offline drive used for comparison, it is removed from the list. The message "Drive disconnected and removed from comparison" appears. The comparison is reset, and you can select another drive or an offline drive for comparison.

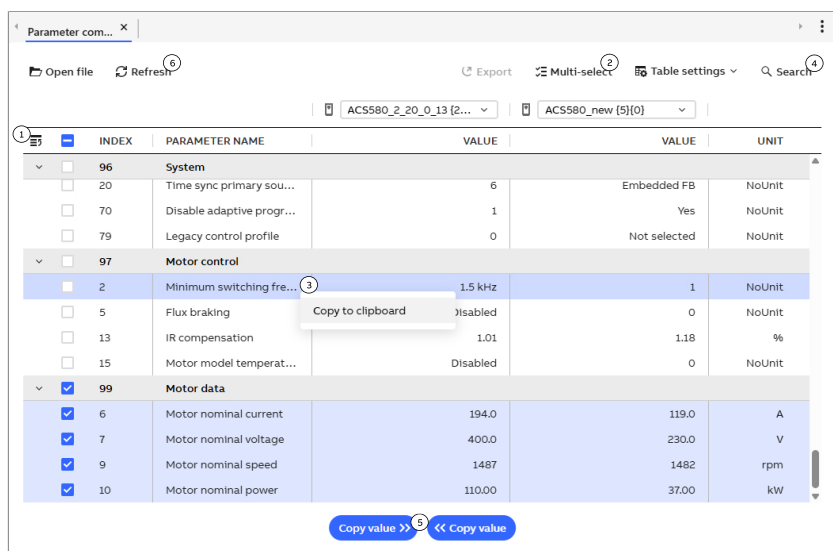
6. **Comparing two offline drives:** In the Offline drive launcher, enable the offline drives. Refer to the [View an offline drive \(page 154\)](#). In the two **Select drive** drop-down lists, select the offline drives you want to compare.



The comparison starts, and results appear in the parameter table according to the filters. Refer to [Table settings for parameter comparison \(page 98\)](#).

Note: If you disconnect an offline drive used for comparison, it is removed from the list. The message "Drive disconnected and removed from comparison" appears. The comparison is reset, and you can select another offline drive for comparison.

7. In the parameter browser, you can:

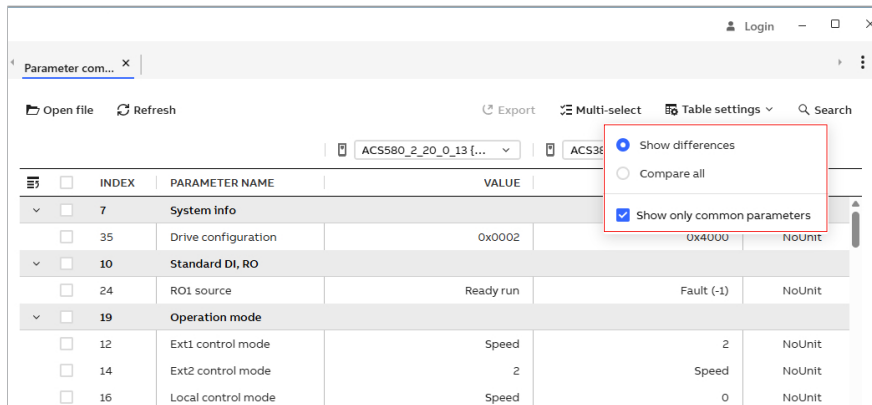


- Expand or collapse the parameter groups
- Activate or deactivate the **Multi-select** option for selecting multiple parameters
- Right-click on a parameter row and **Copy to clipboard**
- Search and view parameters
- Select parameter row(s) and copy valid parameter values from Drive A to Drive B, using the **Copy value >>** and **<< Copy value** buttons. You can click **Refresh** [6] and view the updated parameters. If values are not copied, the message "One or more parameter values were not copied" appears.

Note: In the Drive and backup file comparison, you can only copy values from the backup file to the drive and not vice versa.

■ Table settings for parameter comparison

The drive parameter comparison results appear in the parameter table according to the filters in the table settings.



For example, you can view

- common parameters with different values by activating the **Show differences** and **Show only common parameters** filters
- all parameters by deactivating the **Show only common parameters** filter
- all values for all parameters using the **Compare all** filter.

7

Drive Monitor window

Contents of this chapter

This chapter gives information about the Drive Monitor window and its use.

Drive Monitor window overview

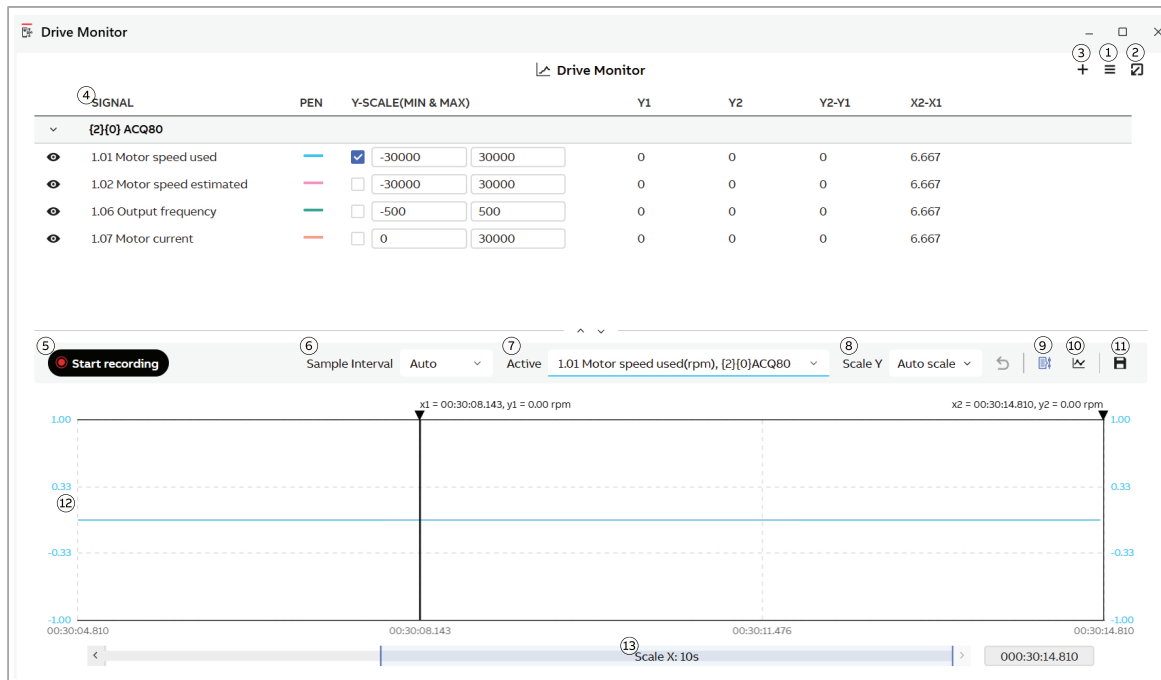
In Drive Composer 3, you can monitor the operation of connected drives. The monitor window shows signal values in graphical or numerical format. The monitor data can be saved to a file for later use. Refer to [Saving drive monitor data \(page 112\)](#).

Note: Up to 26 signals can be monitored. In the ACS880 drive, you can monitor a signal for every one millisecond time interval.

The user-made monitoring settings, such as selected signals, y-scaling for signals, pen colors, number of grids, etc., are saved by default. When you open the tool, the latest settings are available.

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The Drive Monitor window has the parts below:



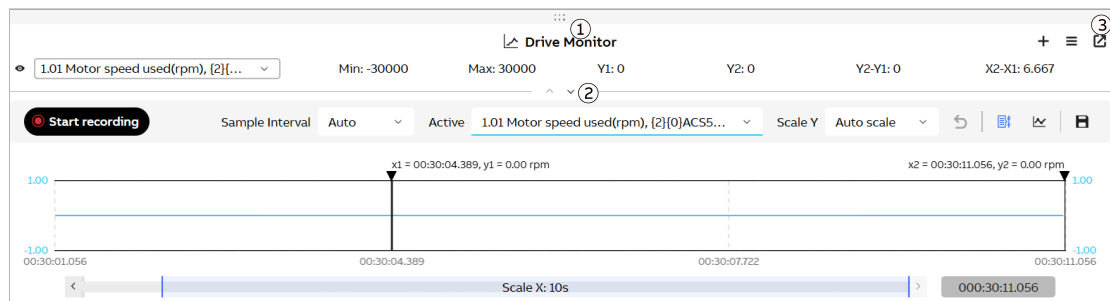
The Drive Monitor window is divided into several sections. At the top, there is a hamburger menu (1) and a pop-out/collapse button (2). Below this is a signal table (4) with columns for SIGNAL, PEN, Y-SCALE(MIN & MAX), Y1, Y2, Y2-Y1, and X2-X1. The table lists four signals: 1.01 Motor speed used, 1.02 Motor speed estimated, 1.06 Output frequency, and 1.07 Motor current. Below the signal table is a control bar (5) with a 'Start recording' button, a 'Sample Interval' dropdown (6) set to 'Auto', an 'Active' dropdown (7) set to '1.01 Motor speed used(rpm), [2][0]ACQ80', a 'Scale Y' dropdown (8) set to 'Auto scale', and buttons for signal value tooltip (9), view sample points (10), and save monitor data (11). The main graph area (12) shows a blue line representing the active signal over time. The x-axis is labeled 'Scale X: 10s' (13) and the y-axis is labeled 'Scale Y'. The graph area has a grid with dashed lines at 0.33 and -0.33 on the y-axis. The x-axis has time markers at 00:30:04.810, 00:30:08.143, 00:30:11.476, and 00:30:14.810.

SIGNAL	PEN	Y-SCALE(MIN & MAX)	Y1	Y2	Y2-Y1	X2-X1
[2][0] ACQ80						
1.01 Motor speed used	Blue	☒ -30000 30000	0	0	0	6.667
1.02 Motor speed estimated	Pink	☐ -30000 30000	0	0	0	6.667
1.06 Output frequency	Green	☐ -500 500	0	0	0	6.667
1.07 Motor current	Red	☐ 0 30000	0	0	0	6.667

- Hamburger menu. It gives the option to modify the signal table. Refer to [Modifying the signal table \(page 106\)](#).
- Pop-out (🗑️) or collapse (🔍) the monitor window function. Clicking on this button switches between the two functions.
- Add drive and signals. Refer to [Adding parameters for monitoring \(page 104\)](#).
- Signal table. Refer to [Monitor signal table overview \(page 106\)](#).
- Signal recording controls. Refer to [Monitor controls overview \(page 110\)](#).
- Signal sampling intervals for recording. If selection is **Auto**, the sampling applies automatically to the value selected in the drop-down list. If no value is selected, by default, the auto sampling applies 2 ms.
The sampling intervals can be selected only when the recording is stopped.
Selection list: Auto, and values between 1...2000 ms.
Note: In the Settings window, you can define the default sample interval for recording. For more information, refer to [Default settings for the drive monitor window \(page 79\)](#).
- Active signal. Only one signal can be an active signal. To change an active signal, select a signal from the drop-down list.
- Y-axis scaling modes: **Auto scale** or **Min - Max**. In **Auto scale** mode, scaling is set automatically based on the signal. In **Min - Max** mode, the scaling is set based on the Y-scale (Min & Max) in the signal table. Refer to [Monitor signal table overview \(page 106\)](#). Click the 🔄 (Reset "Scale Y" to previous state) button, to reset the value to the previous value.
- Signal value tooltip. If the function is enabled, the signal values are shown when you mouse over a signal in the graph. Clicking on this button switches between enabled (🔍) and disabled (🗑️) mode.
- View sample points. If the function is enabled, the signal sample points are shown when you mouseover a signal in the graph. Clicking on this button switches between enabled (🔍) and disabled (🗑️) mode.
- Saves monitor data to a file for later use. Refer to the description in the [Saving drive monitor data \(page 112\)](#).
- Graph area. Refer to the description in the [Graph area functions \(page 110\)](#).
- X-axis scaling. Drag the edge or double-click on the ruler to edit the X-axis timeline. Refer to the description in [Scaling X-axis \(page 110\)](#).

Resizing the Drive Monitor window

When you start Drive Composer 3, the Drive monitor window is minimized at the lower part of the Drive Composer 3 window. You have to expand it before you can start monitoring.

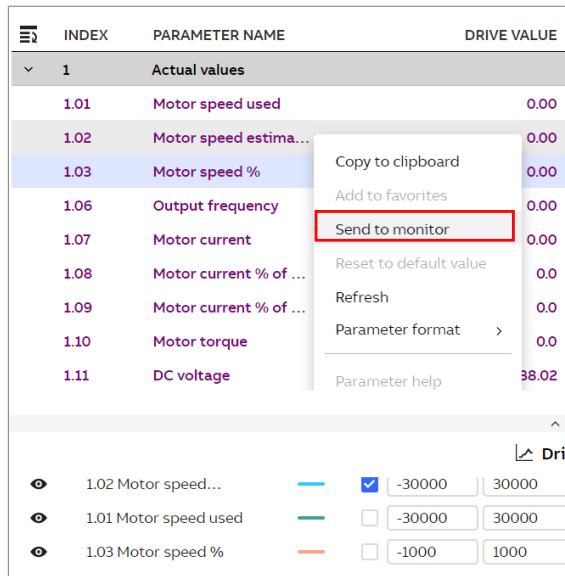


- Resize the monitor window by clicking its title bar [1] with the primary mouse button and dragging it up/down.
- Lift the graph area of the monitor by clicking the up/down arrow buttons [2] on its title line or by dragging the title line up/down.
- Open the monitor in a separate window by clicking the  (pop-out) button [3]. The monitor window is separated from the main window. To bring back the monitor window to its original position, click the  (collapse) button [3].

Adding parameters for monitoring

There are two ways to add parameters to the monitor signals:

- Right-click a parameter or signal in the parameter browser and select **Send to monitor**.



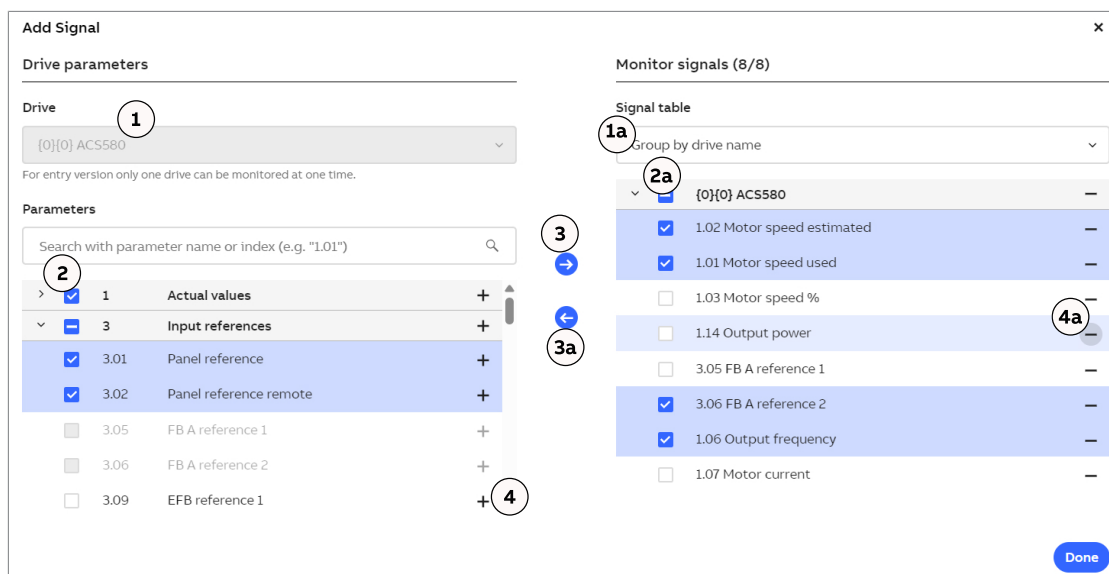
or

- In the Drive monitor window, click **+** (Add drive and signals).

Note:

- It is possible to add signals only when the monitoring is stopped.
- It is not possible to add pointer parameters and passcode parameters for monitoring, e.g., parameters **10.24 RO1 source**, **96.02 Pass code**, etc.

In the Add Signal window, select the required drive parameters and add them to the Monitor signals list. You can add a maximum of eight signals.



In the Drive parameters list, you can use the options below to add parameters to the Monitor signals list:

- Select the required drive in the Drive list [1].
- Use the check-box [2] to select multiple parameters or the parameter group, and click the right-arrow [3] to add to the Monitor signals list.
- Click the + (Add) button [4] to add individual parameters.
- Double-click a parameter to add individual parameters.

The selected drive parameters are displayed in the Monitor signals list, and are greyed out in the drive parameters list. To close the window, click **Done** or click **x** (close).

In the Monitor signals list, you can use the below options to remove the monitored signals:

- Select an option in the Signal table list [1a] to view as grouped by drive name or signal name, or view without any grouping.
- Use the check-box [2a] for multiple selections and click the left-arrow [3a] to remove signals
- Use the check box to select and remove a complete parameter group
- Click the – (Minus) button [4a] to remove individual signals
- double-click a signal to remove signals.

The selected signals in the Monitor signals list are removed and moved back to the drive parameters list. To close the window, click **Done** or click **x** (close).

Monitor signal table overview

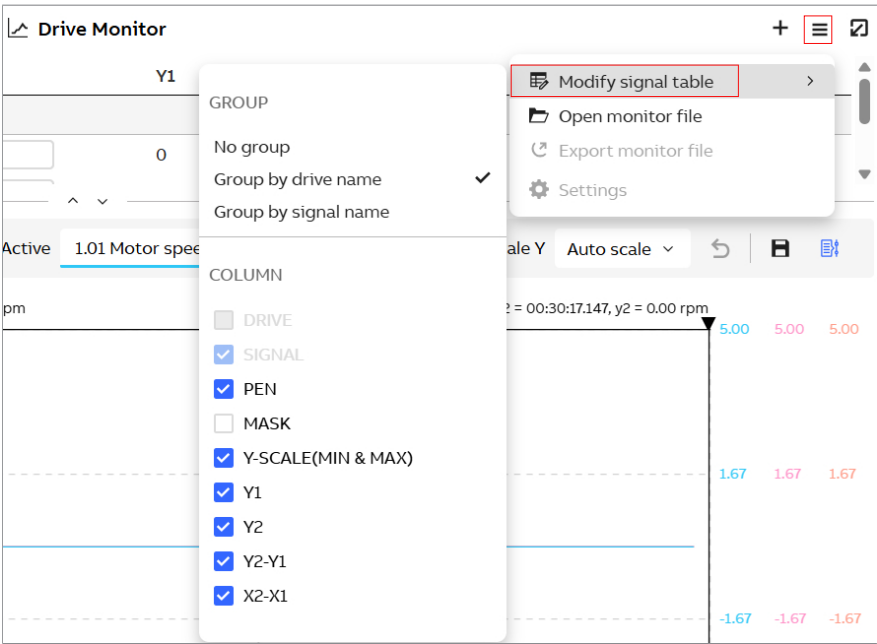
The signal table shows the drive parameters and signal(s) added for monitoring. The table includes the below columns:

①	DRIVE ②	SIGNAL ③	PEN ④	MASK ⑤	Y-SCALE(MIN & MAX) ⑥	⑦ Y1	⑦ Y2	⑦ Y2-Y1	⑦ X2-X1
	{1}{0}ACS580	1.01 Motor speed used		C3FFFFFF	☐ -30000 0	0	0	0	0
	{1}{0}ACS580	1.03 Motor speed %		FFFFFFFC	☒ -1000 2000	0	0	0	0
	{1}{0}ACS580	7.11 Cpu usage		F3FFFC	☒ 0 50	0	47	47	0
	{1}{0}ACS580	1.06 Output frequency		FFFFFFF	☐ -500 1000	0	0	0	0
	{1}{0}ACS580	1.07 Motor current		FFFFFFF	☒ 100 3000	0	0	0	0

1	Show/hide signals by clicking the  /  (Eye) button.
2	Drive name. This column is displayed only when the option is No group in the Modify signal table. Refer to the Modifying the signal table (page 106) .
3	The parameter index and name that are selected for monitoring.
4	A pen marker is used for each signal. You can click on a pen marker and edit the required settings. Refer to the Changing pen marker settings (page 107) .
5	Bit mask for monitoring. You can click on a value and edit the bit selections. Refer to Selecting a bit mask (page 108) .
6	Y-axis scaling (Min & Max). See Defining Y-axis scaling (page 109) . The check box beside the value can be used to show or hide the Y-axis scaling on the right side of the graph.
7	Y1, Y2 values and Y2-Y1, X2-X1 differences. Refer to the Using the double cursor tool (page 112) .

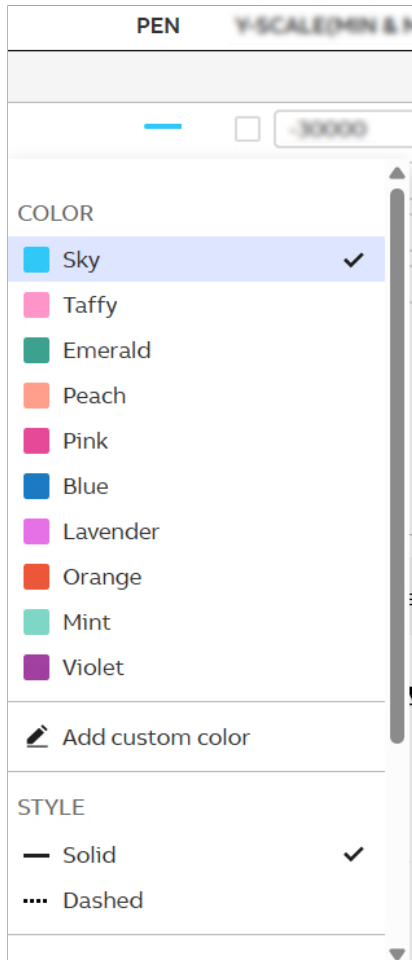
■ Modifying the signal table

You can modify the signal table, for example, select an option to view the signal list as grouped by drive name or signal name, or view without grouping. You can select the columns to show in the signal table. For information on different columns, refer to the [Monitor signal table overview \(page 106\)](#).



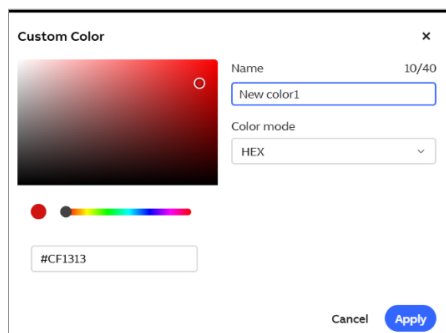
■ Changing pen marker settings

You can set the required pen marker color for each signal. In the monitor table, go to the **Pen** column, and click on a marker. In the settings window, you can change the color of the pen, the style, and the thickness of the pen. The changes are applied to the signals displayed in the graph area.



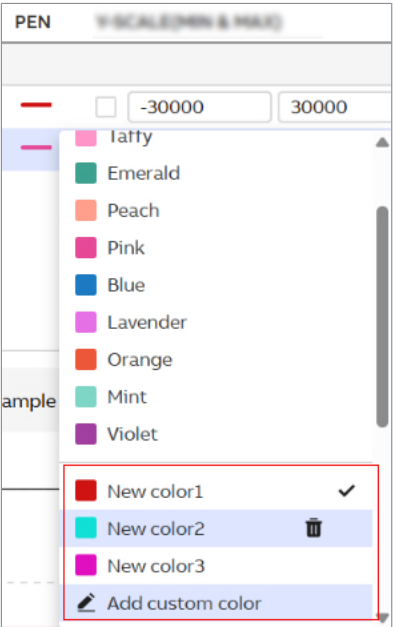
In the Pen color window, you can add your preferred colors using the **Add custom color** function.

1. Select a color in the palette or enter a color code.



2. Enter a name of your choice and select the color mode (Hex or RGB).
3. Click **Apply** to change the color of the selected Pen and the corresponding signal in the graph.

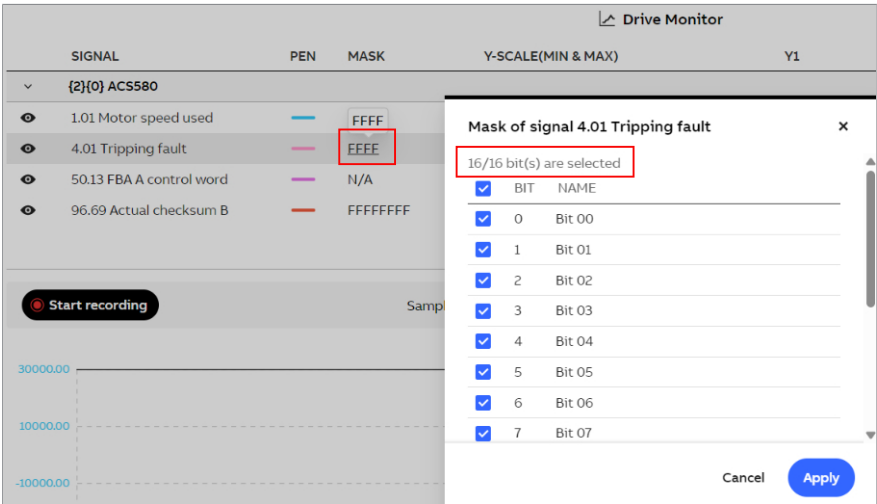
The new colors appear in the custom colors list. You can  (delete) a custom color anytime.



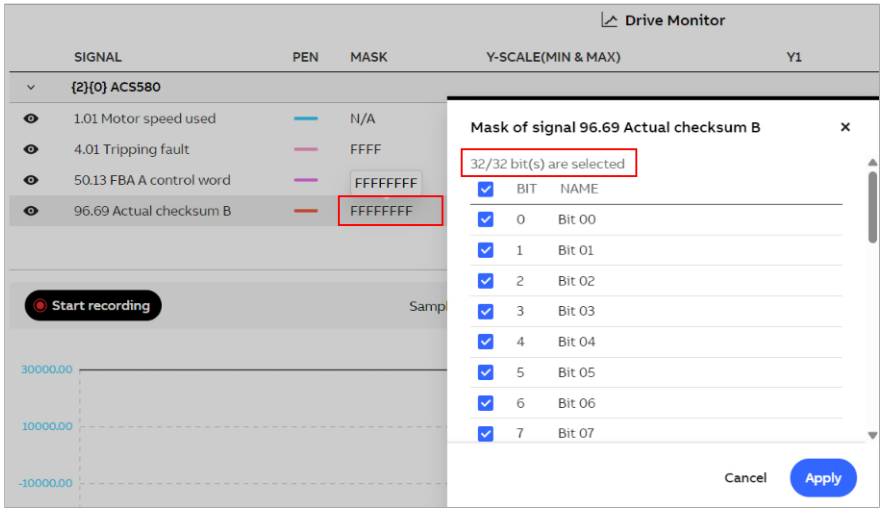
The custom color functions apply to the drive monitor file saved in **.dcmon** format.

■ **Selecting a bit mask**

You can set bit values for each signal. The number of bits varies from 16-bit or 32-bit per signal, as shown in the example figures below.



Example of a 16-bit signal



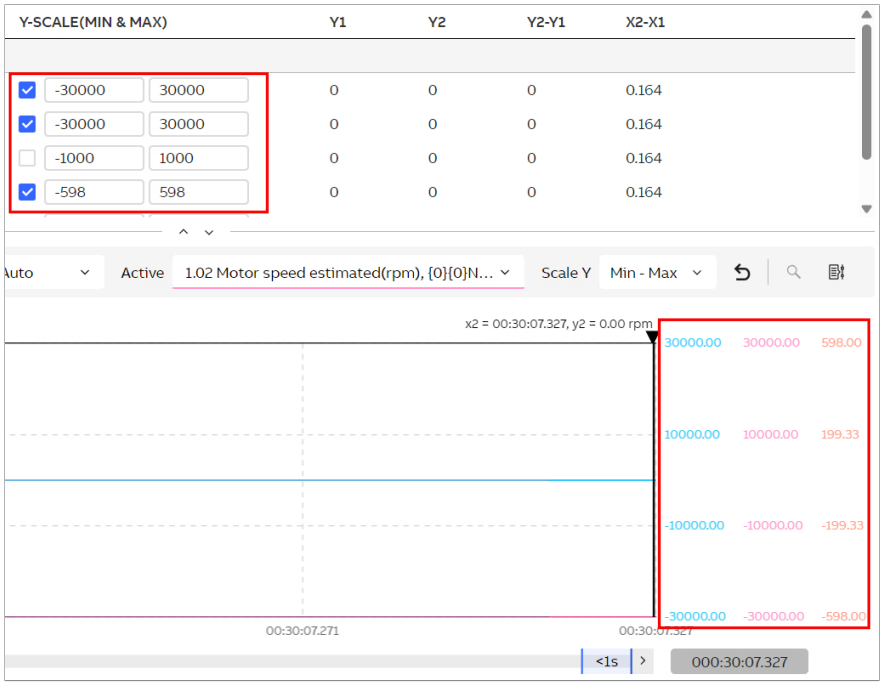
Example of a 32-bit signal

1. In the Drive monitor table, click the value in column **Mask**.
Note: Signals without bit values appear as N/A.
2. In the bit selection window, select the required bit(s).
3. To apply the selection, click **Apply**. To close the window, click **x**.
The selected bits appear in hexadecimal format in the monitor table, for example, value is FFFF (16-bit) or FFFFFFFF (32-bit) if all bits are selected.

■ Defining Y-axis scaling

In the monitor table, you can set the minimum and maximum scaling limits for the Y-axis of each signal. Under the Y-Scale (Min & Max) column, edit the values. The new value is enforced immediately. If you do not see immediate changes in the graph area, check that auto scaling is not enabled.

To show or hide the Y-scaling in the graph, select the check box beside the value as shown in the figure below.

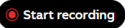
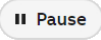
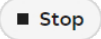
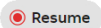


Graph area functions

The graph area shows the selected signal values with different colors. For more information on graph area functions, refer to the sections below:

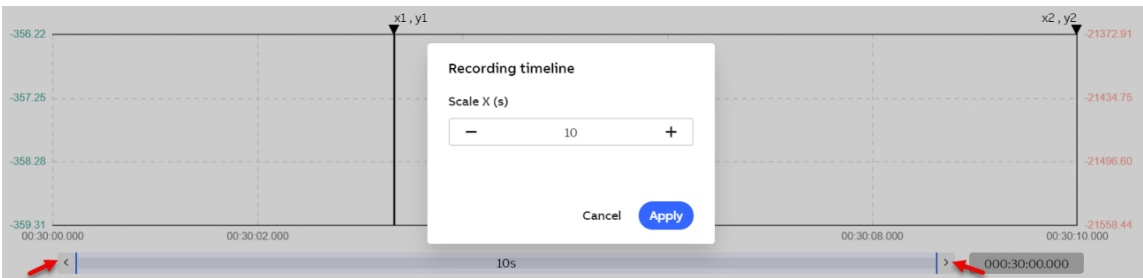
- [Monitor controls overview \(page 110\)](#)
- [Scaling X-axis \(page 110\)](#)
- [Scaling Y-axis \(page 111\)](#)
- [Viewing signal value tool tip \(page 111\)](#)
- [Zooming the graph \(page 111\)](#)
- [Panning the graph \(page 111\)](#)
- [Using the double cursor tool \(page 112\)](#)
- [Saving drive monitor data \(page 112\)](#)
- [Viewing drive monitor data \(page 115\).](#)

■ Monitor controls overview

Monitor controls	Description
	Starts recording data in the selected drives and displaying it on the screen. When recording starts, the Start recording button disappears, and Pause and Stop buttons appear.
	Pauses recording on the screen, but monitoring continues on the background. When you click the Resume button, all values are seen and recording continues normally. When recording is paused, the Pause button disappears, and Resume button appears.
	Stops recording data in the selected drives. The graph or numerical values remain on the screen. The graph can be saved for later purposes. When recording is stopped, the Stop , Pause or Resume buttons disappear, and Start recording button appears.
	Resumes recording on the screen if the recording was paused. When recording is resumed after a pause, the Resume button disappears, and Pause button appears.

■ Scaling X-axis

The X-axis represents Time and can be set from 1 to 120 s. You can drag the edge or double-click on the ruler to open the recording timeline window and use the + / - buttons to edit the values. You can use the left and right arrows on the ruler to display the X-axis values in the graph area.

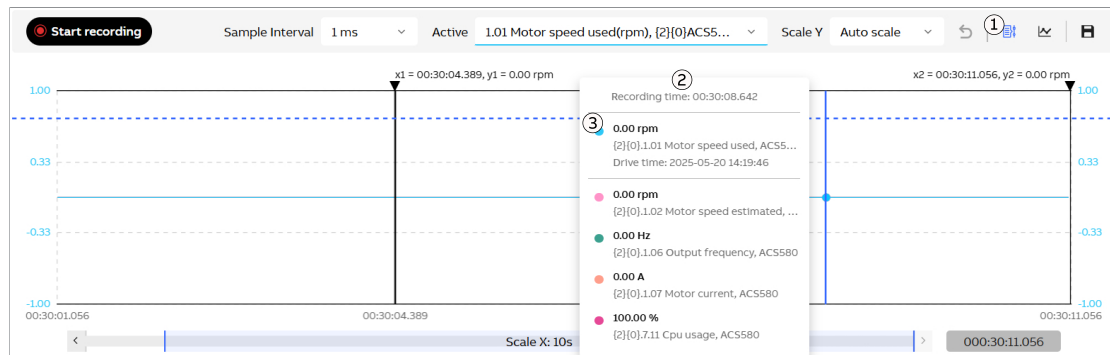


■ Scaling Y-axis

The Y-axis scaling is done in the monitor signal table. Refer to [Defining Y-axis scaling \(page 109\)](#).

■ Viewing signal value tool tip

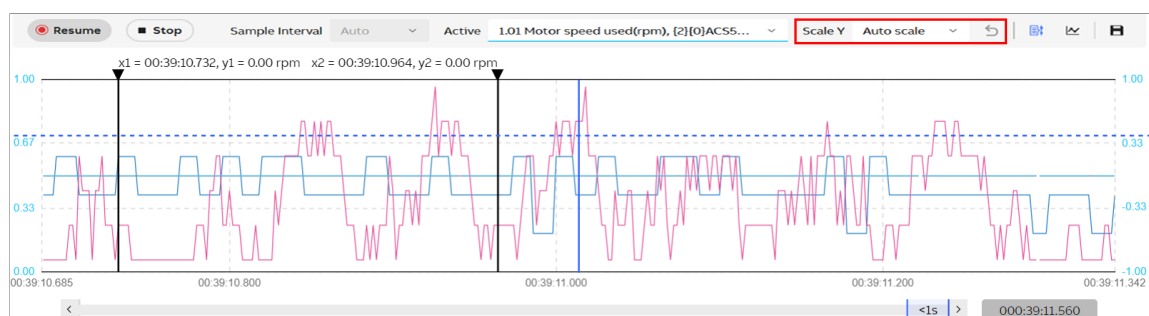
In the monitor window, if you enabled the Signal tooltip [1], and mouse hover on a signal the complete signal details [2] are displayed, as shown in below figure. The active signal [3] appears within two grey lines.



■ Zooming the graph

To enlarge the graph and take a closer look at the details, do the below steps:

1. To set the starting corner for the enlargement, place the mouse cursor in the graph area and press down the primary mouse button.
2. Drag to the opposite desired corner, and release the button.
The part of the graph that was inside the selection rectangle zooms out to fill the graph area. The Y-axis changes accordingly and changed value appears in the **Scale Y** field. To reset the graph to original scaling, click the **(Reset "Scale-Y" to previous state)** button.



Note: Monitoring is paused during zooming. To continue monitoring, click the **Resume** button. The recording continues in the recent zoomed state.

■ Panning the graph

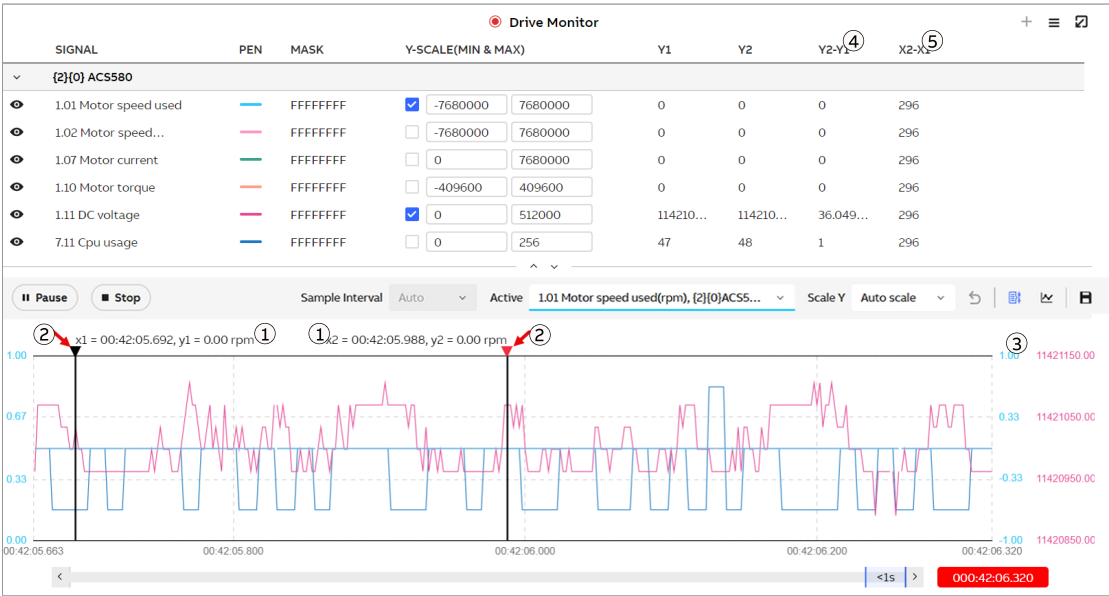
The graph can be panned by dragging the graph with the right mouse button pressed down.

Note: Monitoring is paused during panning. To continue monitoring, click the **Resume** button.

■ Using the double cursor tool

With the cursor tool, you can see the exact values of the signals at two positions in the graph area [1], as shown in the figure below. You can move the position of the cursors by clicking the primary mouse button down on the red cursor tool icon [2] and moving it. While the mouse button is pressed down, you can move the cursor line to the left and right.

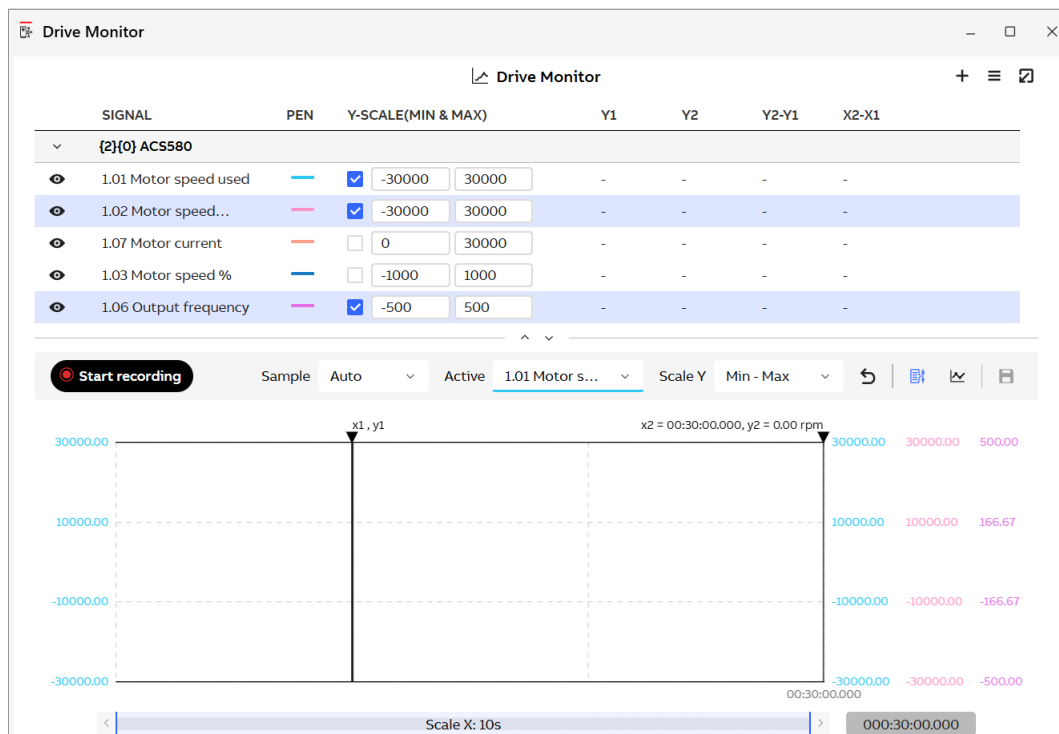
The time stamp of the cursor tool is shown in the header of the cursor tool. This is shown for the active signal. The time stamp changes if the active signal is changed. The values for Y1 and Y2 [3] are shown in the legend area. The signal value differences are shown in the column Y2—Y1 [4] and the time differences are shown in the column X2—X1 [5].



■ Saving drive monitor data

In the monitor window, you can save the recording of drive monitor data. In the Drive monitor window, do the below steps:

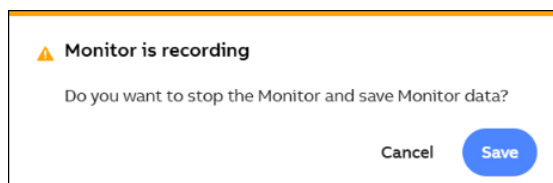
1. Add required parameters for recording. Refer to [Adding parameters for monitoring \(page 104\)](#).
2. In the graph area, click **Start recording**. For more information, refer to [Monitor controls overview \(page 110\)](#).



- Record the required data and stop the recording to save the recorded data. Click **Save monitor file**.

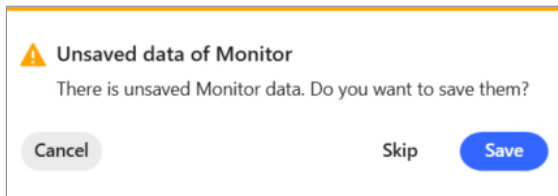


If you try to save the recorded data while the recording is in progress, the warning message "**Do you want to stop the monitor and save monitor data?**" appears. Click **Save** to stop the recording and save the data. Otherwise, click **Cancel** to continue the recording.

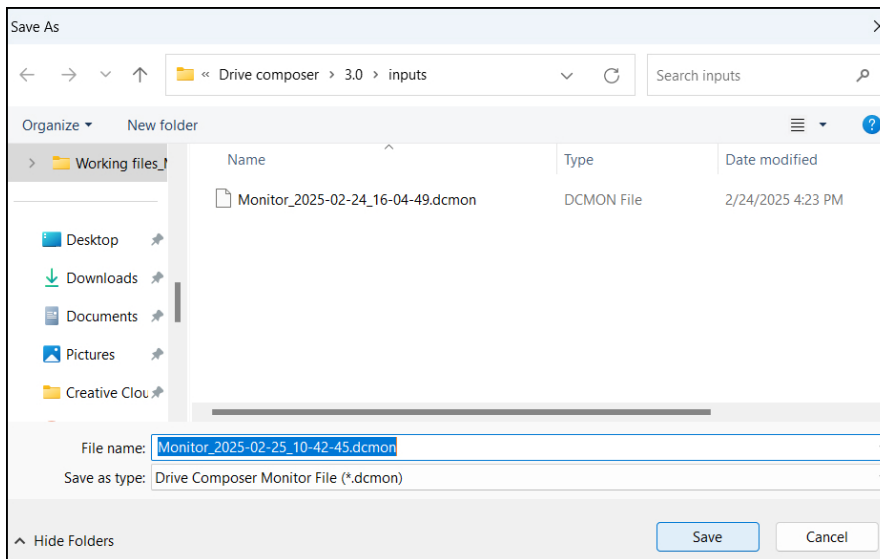


If you clicked **Start recording** without saving the last recorded data, the warning message "**There is unsaved monitor data. Do you want to save them?**" appears. Click **Save** to save the data. Click **Skip** to not save the data, but start the recording. Click **Cancel** to not save nor start the recording.

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4. In the Save as window, select a folder and click **Save**.

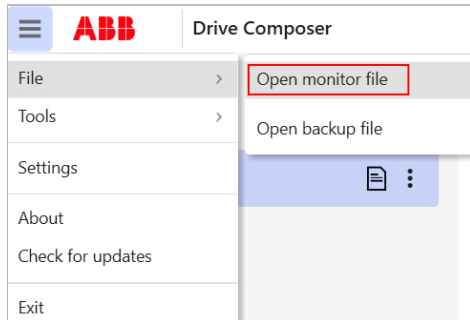


The monitor data is saved to a file on your PC as *.dcmn format. You can open and view the monitor file for later use. Refer to [Viewing drive monitor data \(page 115\)](#).

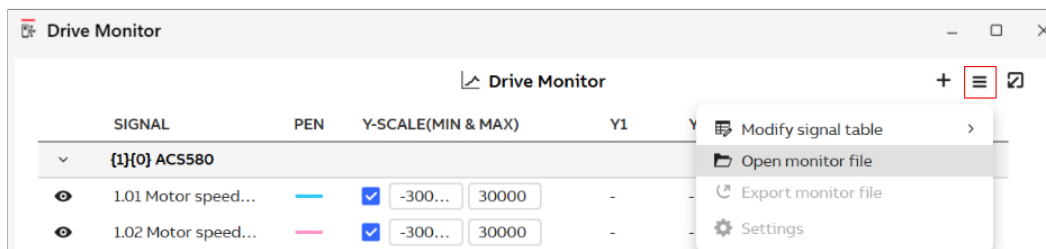
■ Viewing drive monitor data

In the Drive Monitor window, you can view the monitor data file in ***.dcmn** format. You can open the monitor file from either the Drive Composer 3 main window [1] or from the Drive Monitor window [2].

[1]: In the main window, Hamburger menu, go to **File → Open monitor file** and open the ***.dcmn** file on your PC.

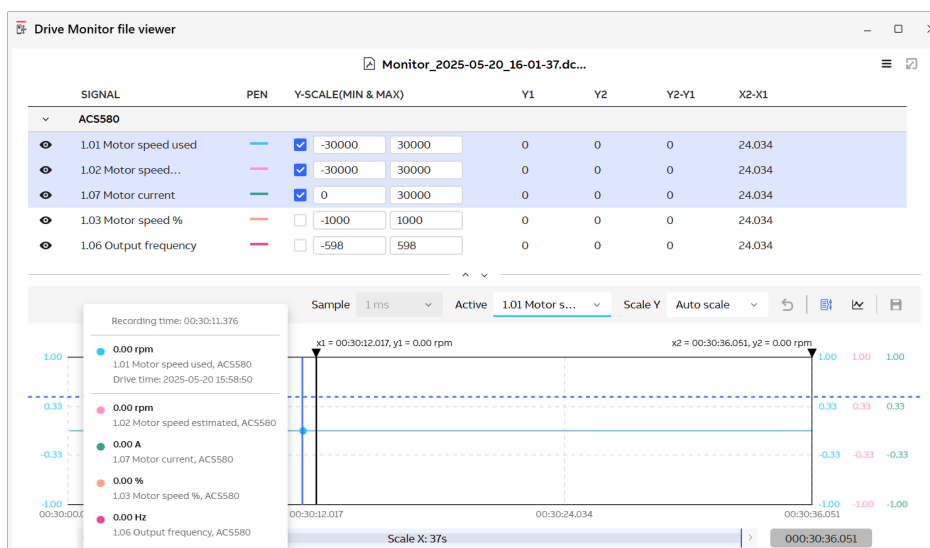


[2]: In the Drive Monitor, go to the Hamburger menu and click **Open monitor file** to open the ***.dcmn** file on your PC.



The file opens in the Drive Monitor file viewer. You can modify signal settings, set required X-/Y-axis scaling, and view details of the monitor data. It is not possible to save the settings.

You can view two or more monitor files in separate windows.



8

Event logger

Contents of this chapter

This chapter gives information about the event logger and fault logger views and their use.

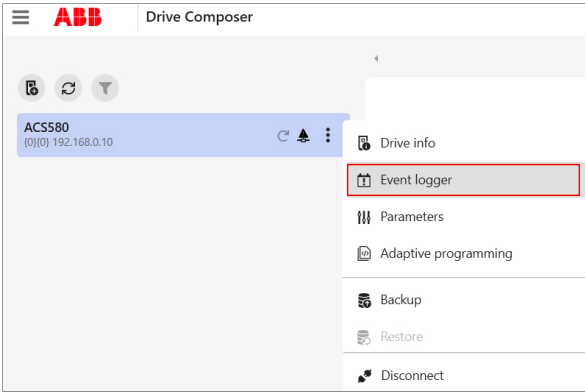
Event logger view

The event logger view displays the event logs of a connected drive. The event logs can be faults (stopping the drive), alarms, or events. With some drives, more data may appear in the monitor window due to a fault.

Note: You can see fault logger data from faults other than the latest active faults.

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In the connected drive, click : (vertical ellipsis) to open the Drive context menu. Click **Event logger**.



The event logs of the connected drive appear in a separate tab.

Note: In the Settings window, you can define the default event types and columns to show, or hide empty columns. For more information, refer to [Default settings for event logger \(page 79\)](#).

Refresh log

Auto-update

Search

Event type

Columns

	TIME	TYPE	CODE(HEX)	DESCRIPTION	AUX. CODE
238	15.01.1980 01:50:55.519		64FF	Fault reset	0000 0000
237	15.01.1980 01:44:45.831		7081	Control panel loss	0000 0000
229	14.01.1980 00:44:55.109		64FF	Fault reset	0000 0000
228	14.01.1980 00:30:16.650		7081	Control panel loss	0000 0000
220	13.01.1980 04:25:31.763		AFF6	Identification run	0000 0000
215	13.01.1980 04:25:28.763		B5F6		0000 0001
214	13.01.1980 04:24:12.907		AFF6	Identification run	0000 0000
213	13.01.1980 04:23:43.173		AFF6	Identification run	0000 0000
209	13.01.1980 04:23:40.173		B5F6		0000 0001
208	13.01.1980 04:17:56.790		AFF6	Identification run	0000 0000
165	01.01.1980 01:01:39.468		64FF	Fault reset	0000 0000
164	01.01.1980 00:53:55.631		7081	Control panel loss	0000 0000
162	01.01.1980 00:07:51.237		64FF	Fault reset	0000 0000
161	time not set		7081	Control panel loss	0000 0000
138	06.06.2024 15:35:03.584		AFF6	Identification run	0000 0000

The event logger shows data for one drive only. The event logger is in the drive window. The table below shows the icons for each event type.

Event icon	Event type	Description
	Fault	The drive has a fault.
	Warning	The drive has a warning.
	Info	Pure event in addition to faults and warnings.
	Reset/Deactivate	A fault, warning, or pure event has been reset or deactivated.

The drive gives the time stamp for all the event types.

In the Event logger window, you can do these actions:

The screenshot shows the 'Event logger' window. Callout 1 points to the 'TIME' column header. Callout 2 points to the 'Refresh log' button. Callout 3 points to the 'Auto-update' checkbox. Callout 4 points to the 'Search' box. Callout 5 points to the 'Event type' dropdown menu. Callout 6 points to the 'Columns' dropdown menu.

	TIME	TYPE	CODE(HEX)	DESCRIPTION	AUX. CODE
238	15.01.1980 01:50:55.519		64FF	Fault reset	0000 0000
237	15.01.1980 01:44:45.831		7081	Control panel loss	0000 0000
229	14.01.1980 00:44:55.109		64FF	Fault reset	0000 0000
228	14.01.1980 00:30:16.650		7081	Control panel loss	0000 0000
220	13.01.1980 04:25:31.763		AFF6	Identification run	0000 0000
215	13.01.1980 04:25:28.763		B5F6		0000 0001

- Mouse hover on column 1 header and sort the events list in ascending or descending order.
Note: The event sequence number comes from the connected drive. By default, the list is sorted in ascending order.
 You can move the mouse pointer over the sort icon to show or hide the ascending order icon.
- Refresh the event logs. The **"Event logger is update to date"** message appears.
- Enable the auto-update button. The event logger list will update automatically.
- Search and view events based on event code or event description. In the search box, type the required code or text you want to view.
- Filter the event list based on event types. In the **Event type** drop-down list, select the required items you want to view.

The 'Event type' dropdown is open, showing four options: 'Faults' (checked with a red X), 'Warnings' (checked with a yellow triangle), 'Info' (checked with a blue i), and 'Resets' (checked with a circular arrow). Each option has a checkmark on the right.
- Filter the event list based on event columns. In the **Columns** drop-down list, select the required items you want to view.

The 'Columns' dropdown is open, showing five options: 'TIME', 'TYPE', 'CODE(HEX)', 'DESCRIPTION', and 'AUX. CODE'. Each option is checked with a blue checkmark on the left and has a checkmark on the right.

9

Drive configuration

Contents of this chapter

This chapter describes the procedures to configure the drive. These procedures include:

- Commissioning the drive through a wizard ([121](#))
- Updating the drive firmware ([127](#))
- Creating a drive parameter backup ([144](#))
- Launching an offline drive ([151](#)).

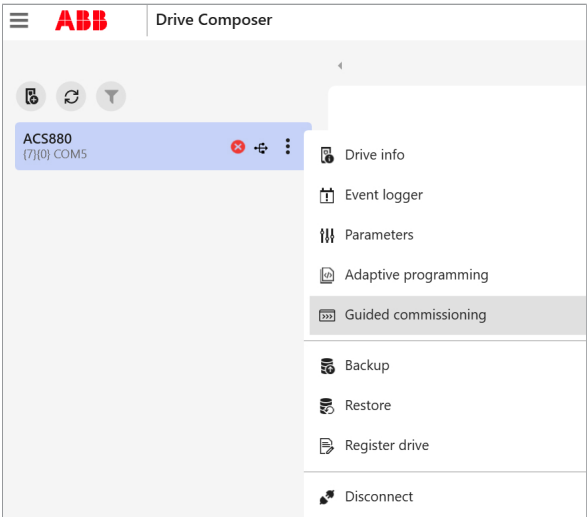
Guided drive commissioning

Note: This feature applies to only ACS880 drives with the primary control firmware.

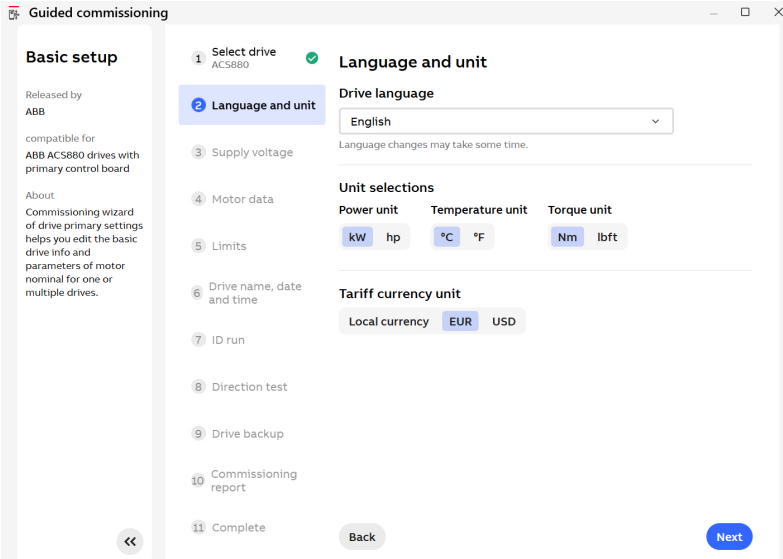
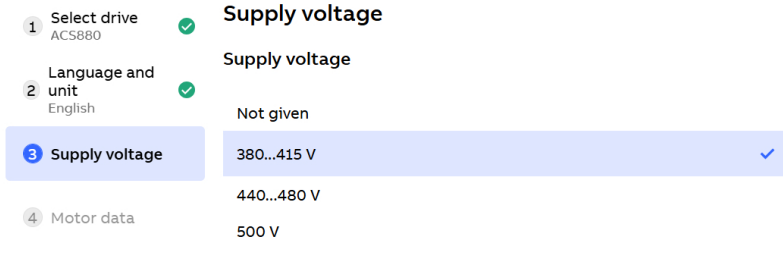
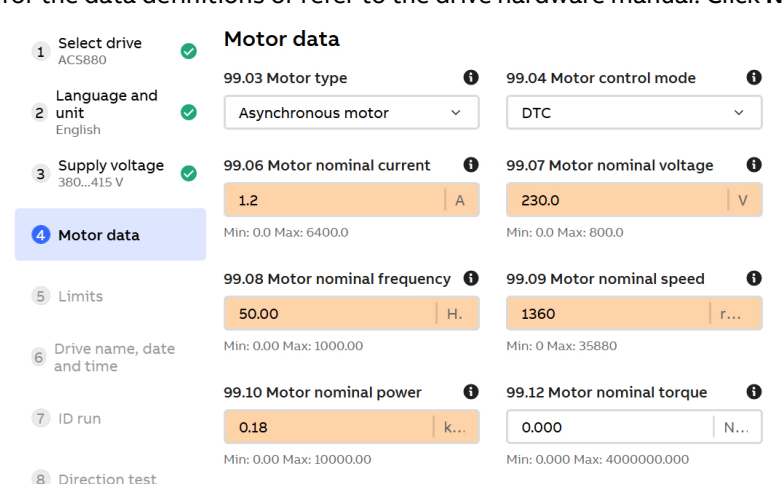
You can use the guided commissioning wizard to configure the drive's basic startup. Do all the steps to complete the commissioning. If commissioning is not complete, the message "Unsaved changes will be lost" appears. Click **Exit** or **Cancel**. You can go back and forth to any step and update it.

To commission the drive, go to the drive context menu and click **Guided commissioning**. Obey the instructions in the wizard.

122 Drive configuration

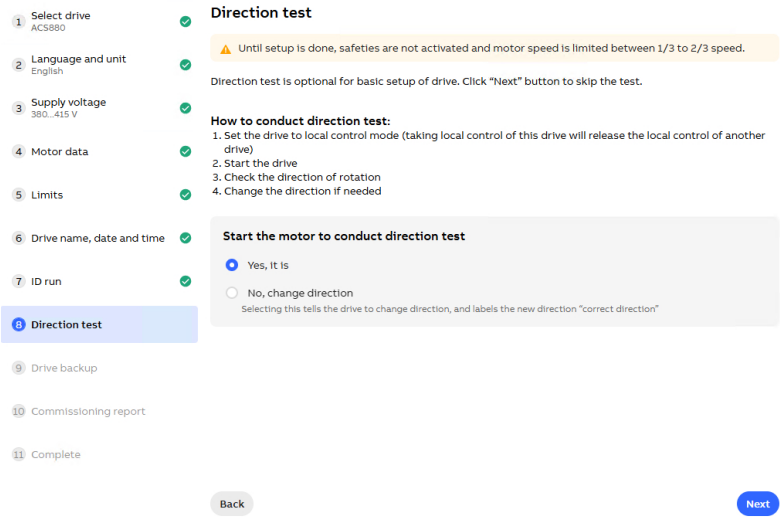
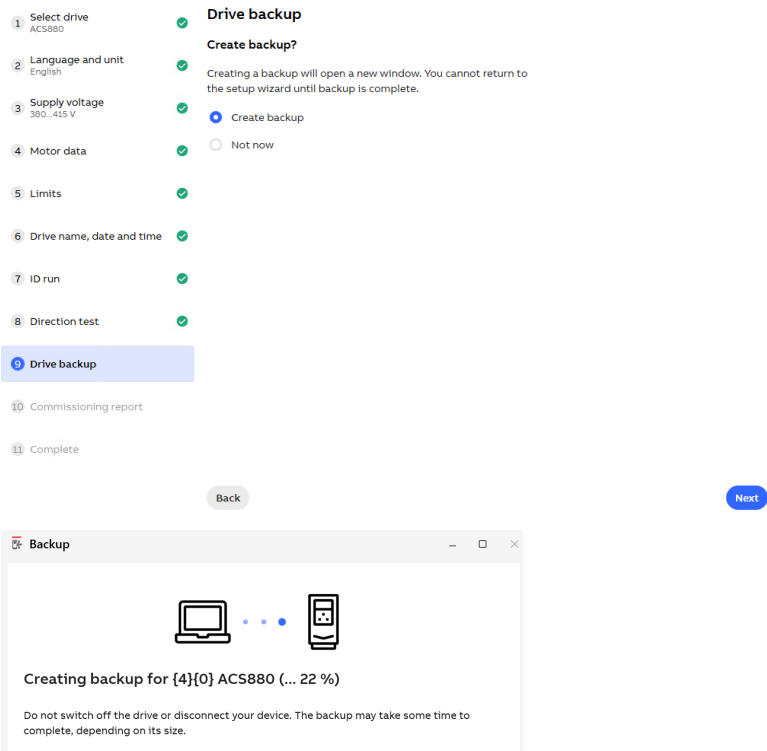


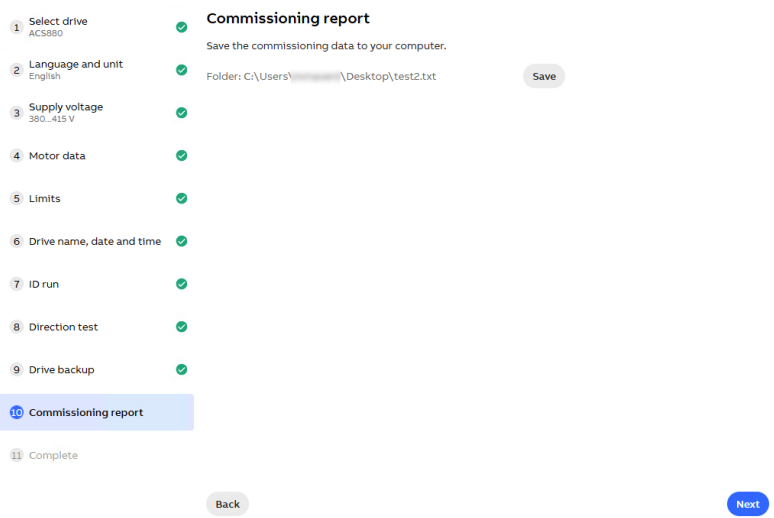
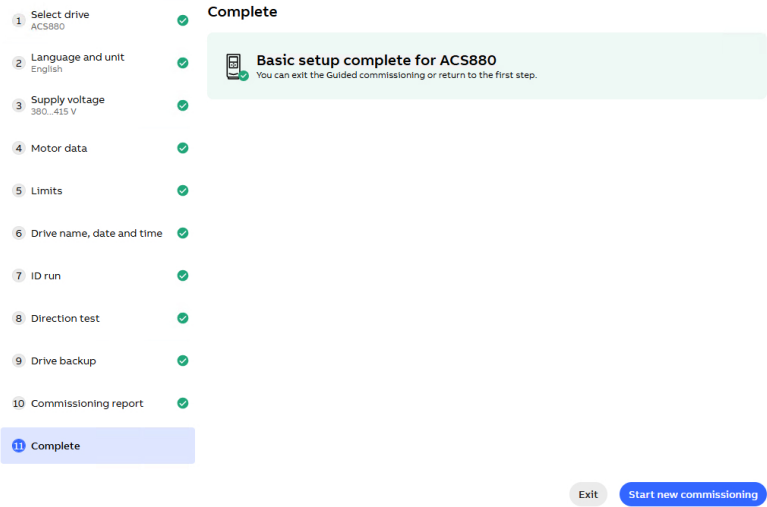
Step	User interface												
1	Select a drive. View the drive information and click Next. Guided commissioning Basic setup Released by ABB compatible for ABB ACS880 drives with primary control board About Commissioning wizard of drive primary settings helps you edit the basic drive info and parameters of motor nominal for one or multiple drives. Select drive 1 Select drive 2 Language and unit 3 Supply voltage 4 Motor data 5 Limits 6 Drive name, date and time 7 ID run 8 Direction test 9 Drive backup 10 Commissioning report 11 Complete Select drive ACS880 {7}{0} COM5 ✓ Drive information <table><tr><td>Drive name</td><td>ACS880</td></tr><tr><td>Node ID</td><td>{7}{0}</td></tr><tr><td>IP address/COM port</td><td>COM 5</td></tr><tr><td>Drive type code</td><td>999</td></tr><tr><td>Serial number</td><td>Unknown</td></tr><tr><td>Firmware</td><td>AINFC v3.47.255 F eb 16 2026 20:00: 12 487c9a023d08 4c429916586637</td></tr></table> Next	Drive name	ACS880	Node ID	{7}{0}	IP address/COM port	COM 5	Drive type code	999	Serial number	Unknown	Firmware	AINFC v3.47.255 F eb 16 2026 20:00: 12 487c9a023d08 4c429916586637
Drive name	ACS880												
Node ID	{7}{0}												
IP address/COM port	COM 5												
Drive type code	999												
Serial number	Unknown												
Firmware	AINFC v3.47.255 F eb 16 2026 20:00: 12 487c9a023d08 4c429916586637												

Step	User interface
2	Select the drive language, power temperature, and torque units, and the local tariff currency unit. Click Next. 
3	Select the drive supply voltage. Click Next. 
4	Select the motor data according to the nameplate on the drive. You can click the info button for the data definitions or refer to the drive hardware manual. Click Next. 

124 Drive configuration

Step	User interface																				
5	Select the limits. You can click the info button for the data definition. Click Next. 1 Select drive ACS880 ✓ 2 Language and unit English ✓ 3 Supply voltage 380...415 V ✓ 4 Motor data ✓ 5 Limits 6 Drive name, date and time Limits 30.11 Minimum speed -1500.00 r... Min: -35880.00 Max: 35880.00 30.12 Maximum speed 1500.00 r... Min: -35880.00 Max: 35880.00 30.17 Maximum current 0.00 A Min: 0.00 Max: 30000.00 30.19 Minimum torque 1 -300.0 % Min: -1600.0 Max: 0.0 30.20 Maximum torque 1 300.0 % Min: 0.0 Max: 1600.0																				
6	Select the drive name, date, and time. You can click Sync with PC to update the system date and time. Click Next. 1 Select drive ACS880 ✓ 2 Language and unit English ✓ 3 Supply voltage 380...415 V ✓ 4 Motor data ✓ 5 Limits ✓ 6 Drive name, date and time Drive name, date and time Drive name 6/200 ACS880 Drive date and time 03/... 10:... Sync with PC																				
7	Set the drive to local mode and set the ID run setup. In the control panel, press Start to start the motor. The motor rotates for about one minute at various speeds. After the ID run, the drive stops. If the ID run is not started, the message "ID run not started" appears. Click Next. 1 Select drive ACS880 ✓ 2 Language and unit English ✓ 3 Supply voltage 380...415 V ✓ 4 Motor data ✓ 5 Limits ✓ 6 Drive name, date and time ✓ 7 ID run 8 Direction test 9 Drive backup 10 Commissioning report 11 Complete ID run ⚠ ID run and direction test require local control. Set the drive to local control from the control panel. Select what kind of ID run to do. Standstill Press Start in the control panel to start the motor. The motor will rotate for about 1 minute at various speeds. After the ID run, the drive will stop. ID run not started <table> <tr> <td>Motor speed used</td> <td>0.00 rpm</td> </tr> <tr> <td>Motor current</td> <td>0.00 A</td> </tr> </table> Motor data <table> <tr> <td>99.03 Motor type</td> <td>Asynchronous motor</td> </tr> <tr> <td>99.04 Motor control mode</td> <td>DTC</td> </tr> <tr> <td>99.06 Motor nominal current</td> <td>1.2 A</td> </tr> <tr> <td>99.07 Motor nominal voltage</td> <td>230.0 V</td> </tr> <tr> <td>99.08 Motor nominal frequency</td> <td>50.00 Hz</td> </tr> <tr> <td>99.09 Motor nominal speed</td> <td>1360 rpm</td> </tr> <tr> <td>99.10 Motor nominal power</td> <td>0.18 kW</td> </tr> <tr> <td>99.12 Motor nominal torque</td> <td>0.000 Nm</td> </tr> </table> Back Next	Motor speed used	0.00 rpm	Motor current	0.00 A	99.03 Motor type	Asynchronous motor	99.04 Motor control mode	DTC	99.06 Motor nominal current	1.2 A	99.07 Motor nominal voltage	230.0 V	99.08 Motor nominal frequency	50.00 Hz	99.09 Motor nominal speed	1360 rpm	99.10 Motor nominal power	0.18 kW	99.12 Motor nominal torque	0.000 Nm
Motor speed used	0.00 rpm																				
Motor current	0.00 A																				
99.03 Motor type	Asynchronous motor																				
99.04 Motor control mode	DTC																				
99.06 Motor nominal current	1.2 A																				
99.07 Motor nominal voltage	230.0 V																				
99.08 Motor nominal frequency	50.00 Hz																				
99.09 Motor nominal speed	1360 rpm																				
99.10 Motor nominal power	0.18 kW																				
99.12 Motor nominal torque	0.000 Nm																				

Step	User interface
8	The direction test is <u>optional</u>. Click Next to skip the test. To run the direction test, set the drive to local control mode. Note that motor speed is limited between $\frac{1}{3}$ and $\frac{2}{3}$ of the speed. Select Yes or No to start the motor and, if needed, change direction. Start the drive and check the direction. If you selected No, the drive changes direction and shows the label as "correct direction". 
9	You can create a backup now or later. To create later, select Not now To create a backup now, select Create backup. Enter a filename to save the backup file as a *.dcb file. Creating a backup window appears. Note that you <u>cannot</u> go back to the setup wizard until the backup is completed. Do not switch off the drive or disconnect your device. The backup may take some time to complete, depending on its size. Click Next. 

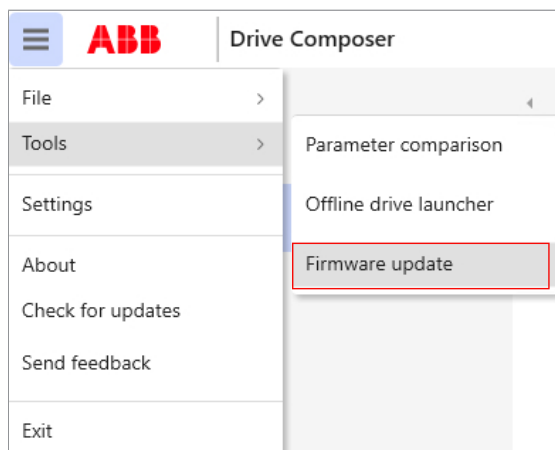
Step	User interface
10	To save the commissioning data to your PC, click Save and select a folder. The message "Commissioning data saved." appears, along with the folder location. Click Next. 
11	The message "Basic setup complete for [Drive] " appears. Click Exit to close the commissioning or click Start new commissioning to return to the first step. 

Updating drive firmware

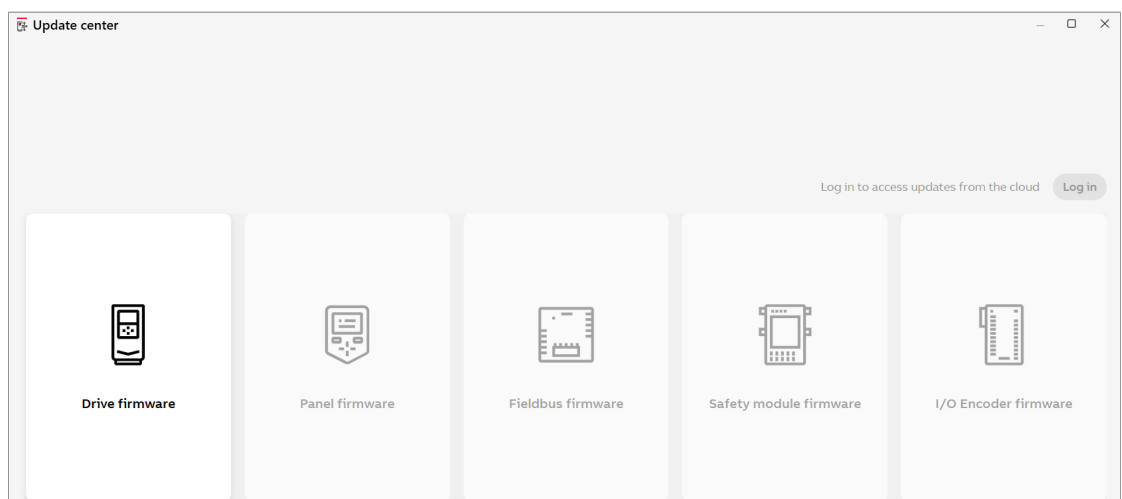
You can update the drive firmware with a loading package in the update center. Do the steps as follows:

Prerequisite: Download a signed firmware package (e.g., **ACS580_ASCK2_2.20.0.13_dofs.signed**) from the Customer Identity & Access Management (CIAM) portal. Refer to [Downloading drive firmware package from CIAM \(page 142\)](#). Do not change the package name.

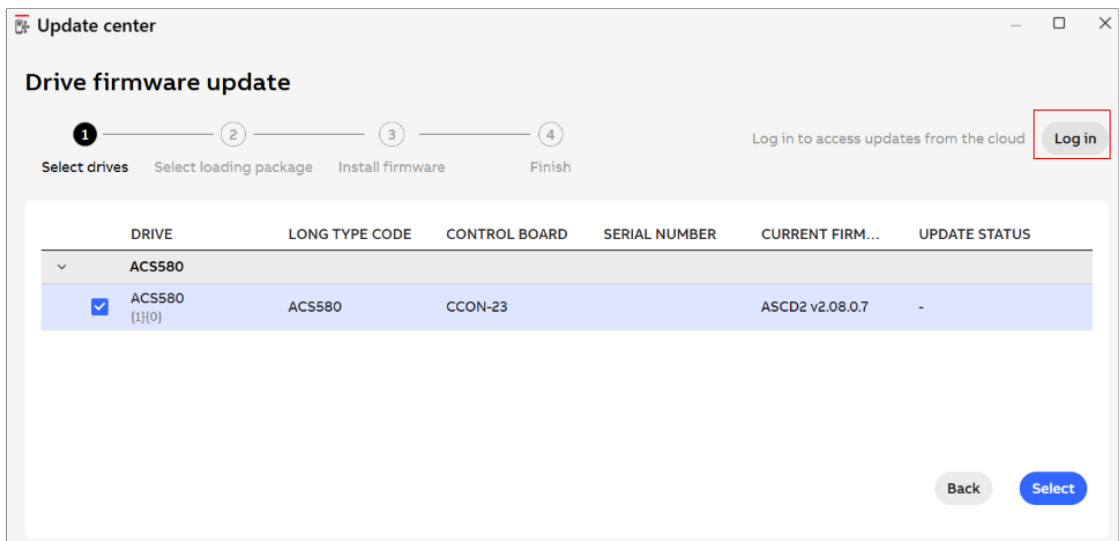
1. Power up the drive. Make sure the motor (inverter) or the supply unit is not operating. Refer to the [Drives list panel: status indication \(page 62\)](#).
2. Make sure the drive is connected to Drive Composer 3 using a USB cable. For more information, refer to [Connecting to drive with the Assistant control panel](#).
3. Click  (**Connect to drive**).
4. Select **Connect to drives via USB/COM** and click **Apply**.
If the drive is connected through USB, Drive Composer 3 automatically detects the drive.
5. In the ≡ (Hamburger) menu, go to **Tools** → **Firmware update**.



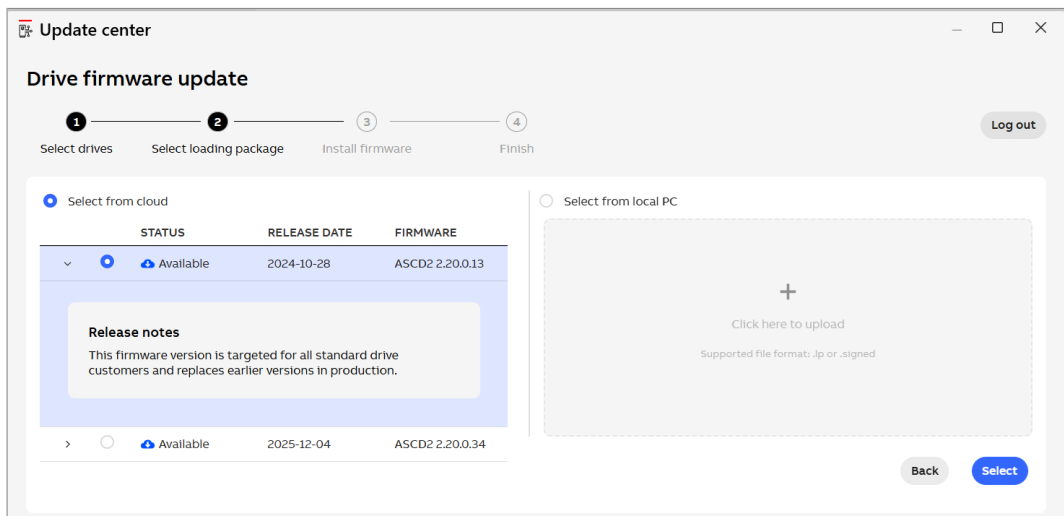
6. In the Update center, click **Drive firmware**.



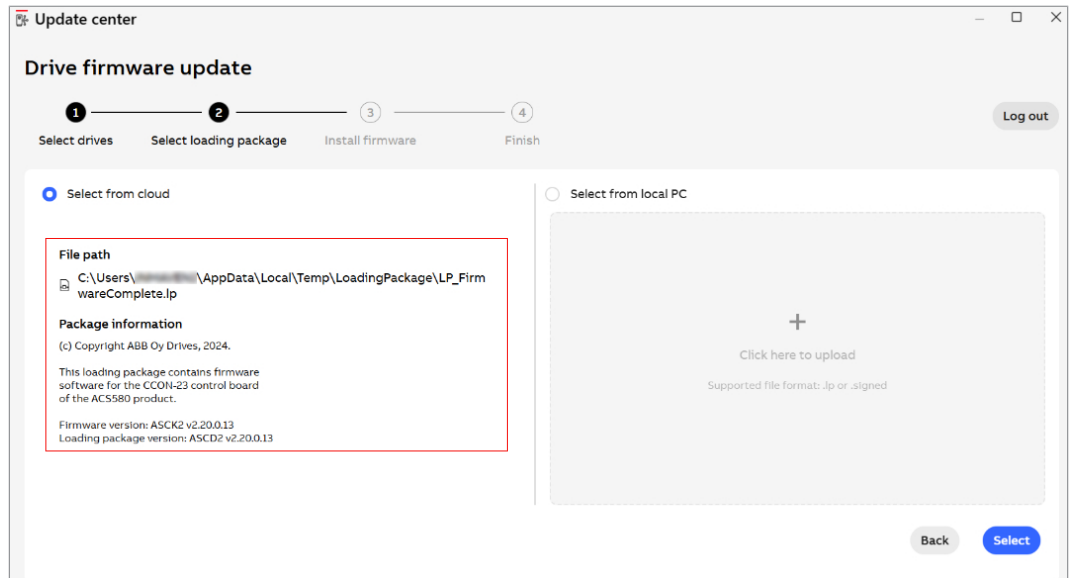
7. Select the drive you want to update and click **Select**. Make sure that you are logged in to access updates from the cloud.



8. Select a firmware loading package from the cloud or from your local PC.
- Go to **Select from cloud** and select the necessary firmware loading package. You can view the firmware release notes and click **Select**.



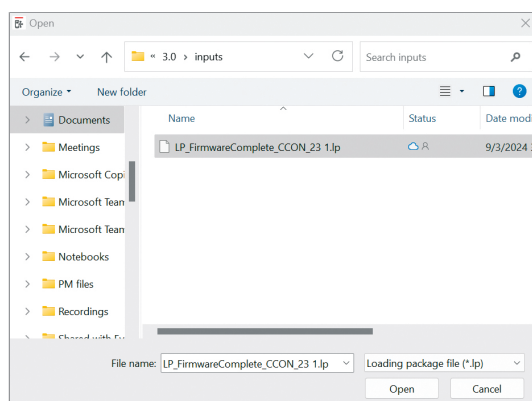
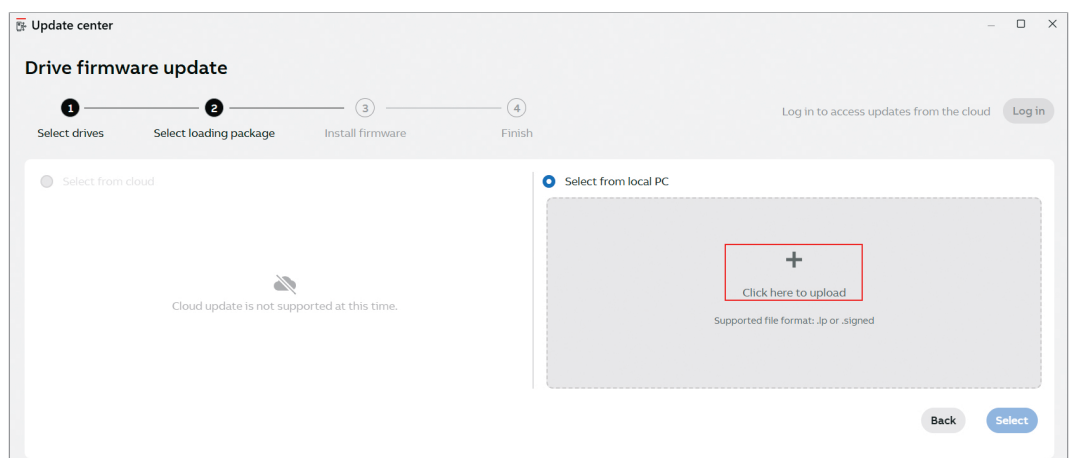
After the firmware is downloaded from the cloud, the file path and firmware information appear. Click **Select**.



If the firmware download is not completed, the message "Firmware not downloaded due to network or server error" appears.

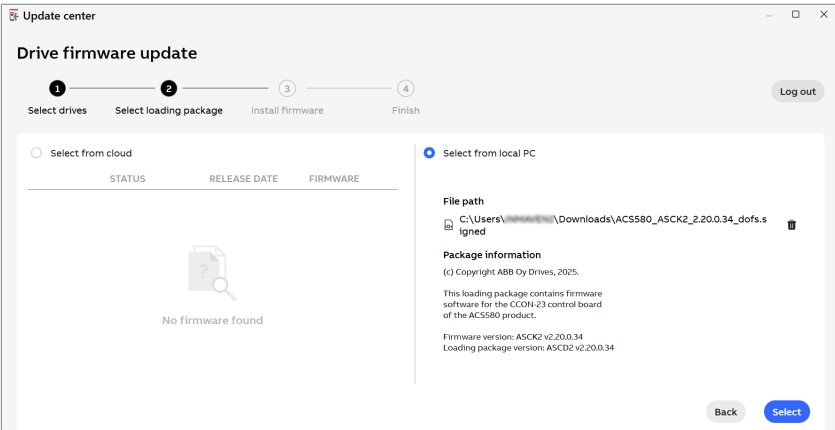
- Go to **Select from local PC**. Click **+** to upload the file. Select the firmware loading package file (***.signed or *.lp**) on your local PC.

Note: You must download the firmware loading package file from a known source or contact ABB.

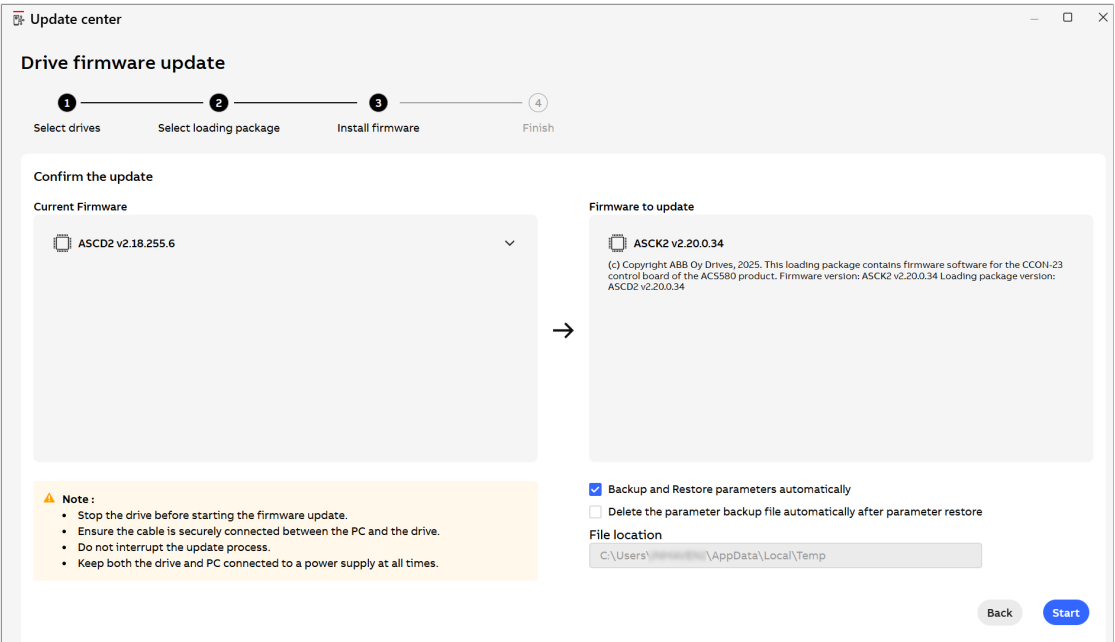


9. The firmware information appears. Click **Select**.

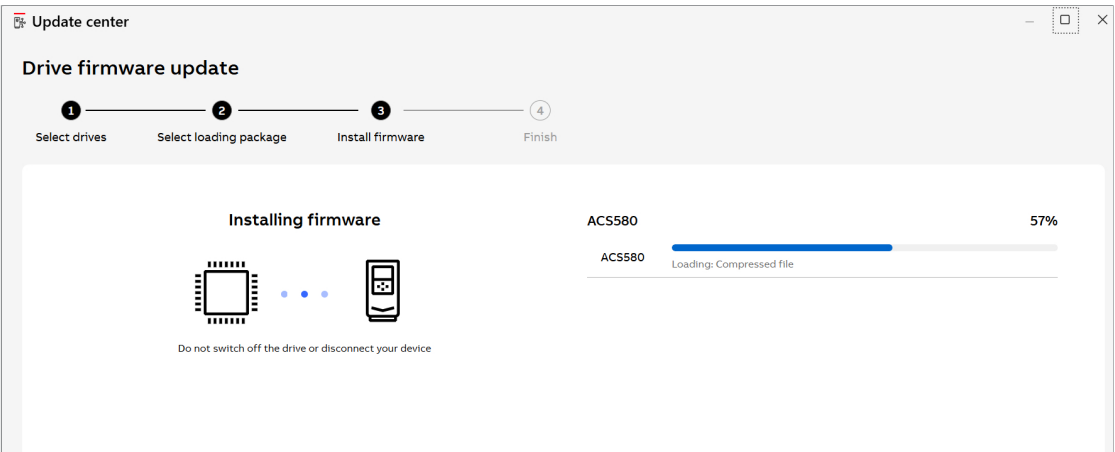
130 Drive configuration



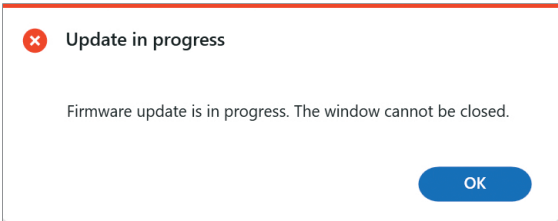
10. The details of the current firmware and the firmware to be updated appears. Obey the instructions in the window. You can select options to back up and restore parameters or delete the backup after restoring parameters. Click **Start**.



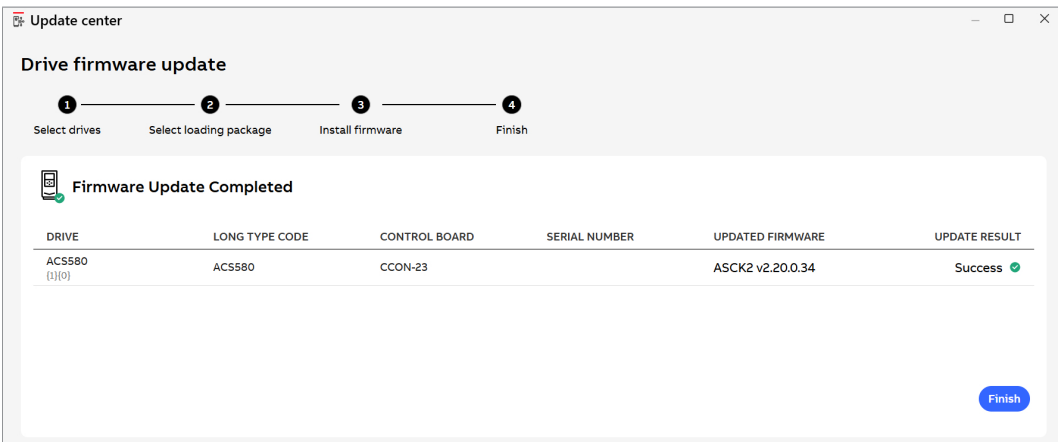
The firmware installation progress appears.



If you switch off/disconnect the drive during the update, the message below appears.

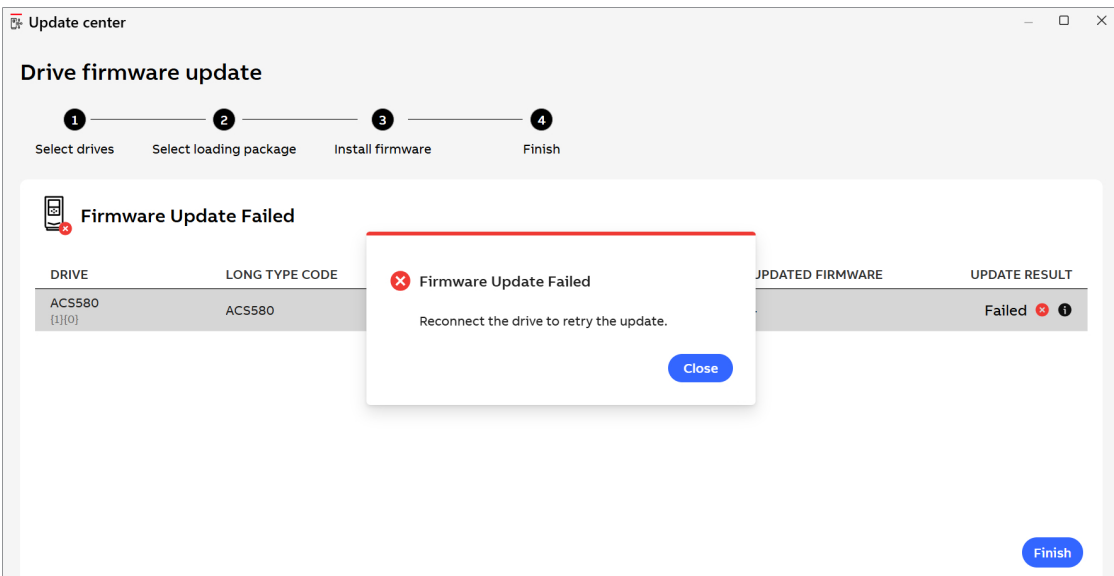


11. If the update is successful, the message *Firmware Update Completed* appears. Click **Finish**.



You can go to Drive info (refer to page 68) and check the updated firmware information.

12. If the update failed, the previous version is restored. The message *Firmware update failed* appears. In the update result column, click the info icon for additional instructions. Click **Finish** to close the window.



To continue using the previous firmware version, click (**Connect to drive**).

Updating fieldbus firmware

These fieldbus types are supported:

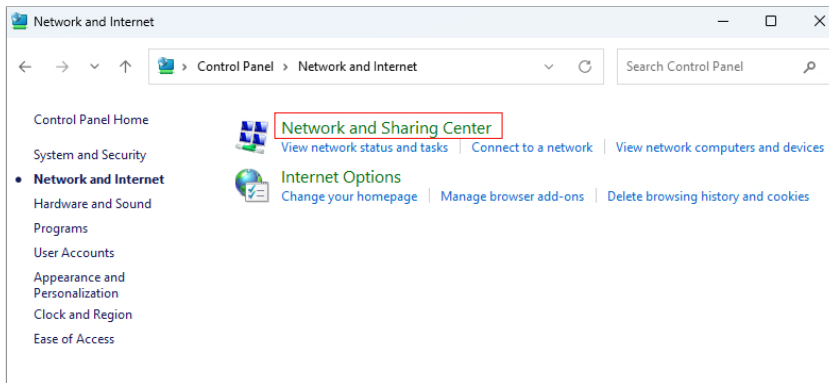
- FPNO-21 PROFINET fieldbus adapter module
- FEIP-21 EtherNet/IP fieldbus adapter module
- FBIP-21 BACnet/IP adapter module
- FMBT-21 Modbus/TCP adapter module

Note: It is not possible to use the drive and fieldbus adapter loader simultaneously.

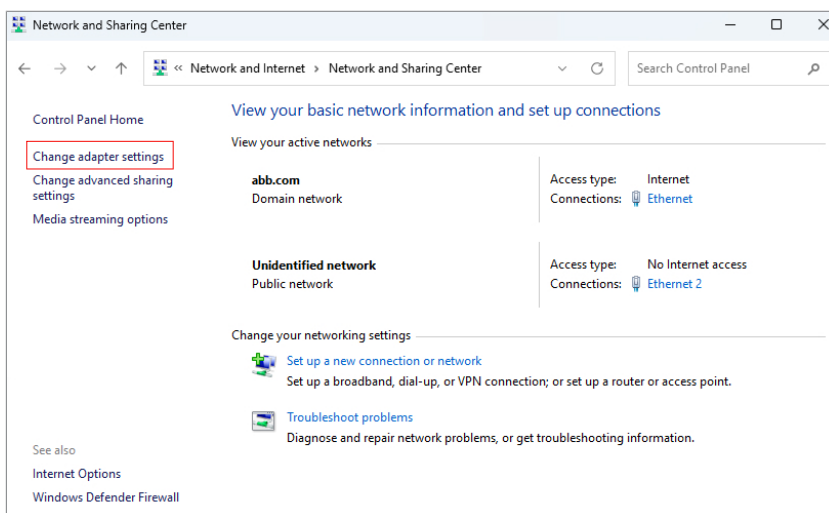
■ Configure the fieldbus adapter

To configure the fieldbus adapter in Drive Composer 3, do the steps as follows:

1. Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center**.

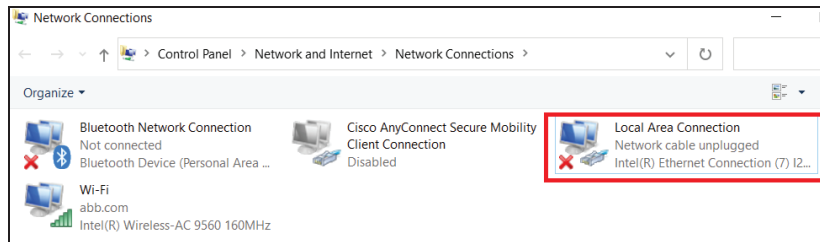


2. Click **Change adapter settings** on the left pane.



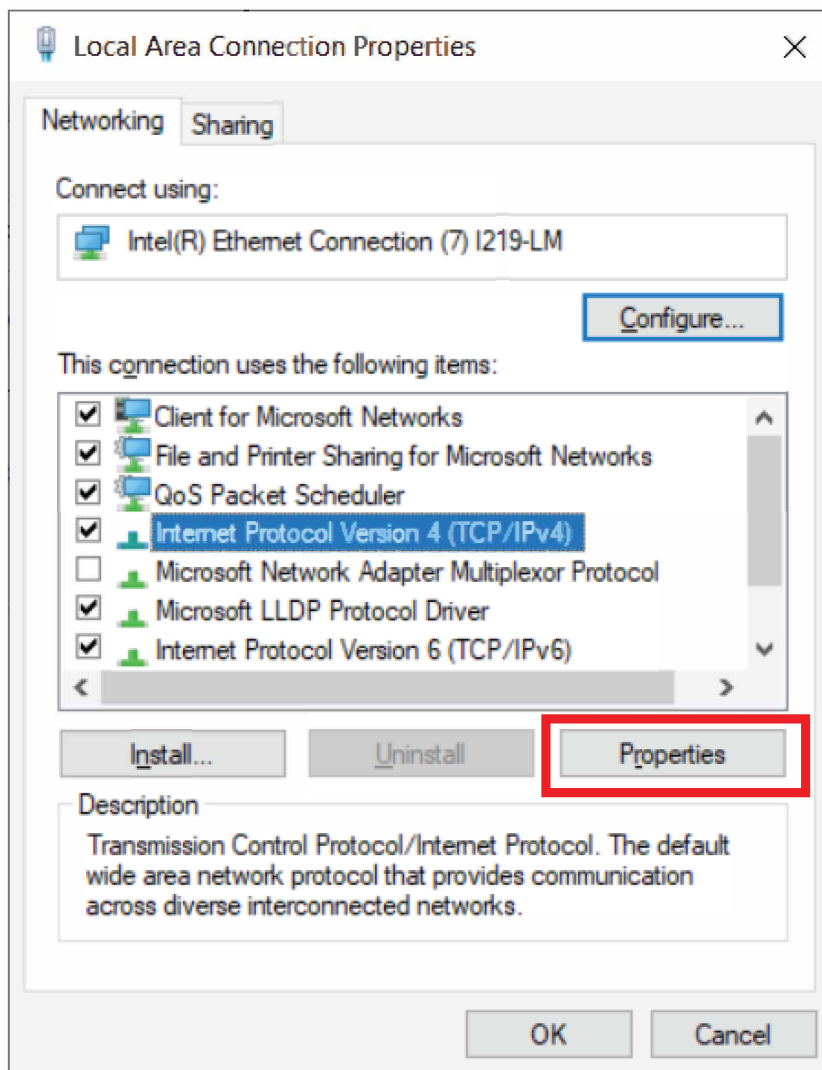
The Network connections window appears

3. Double-click **Local Area Connection**.



The Local Area Connection Properties window appears.

4. Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



5. Select **Use the following IP address**, type the IP address and the Subnet mask, and click **OK**.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 0 . 1

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

6. To enable the fieldbus adapter module in the drive, select the slot connected to the adapter module in parameter **50.1 FBA A enable**.

ACS880 Parameters

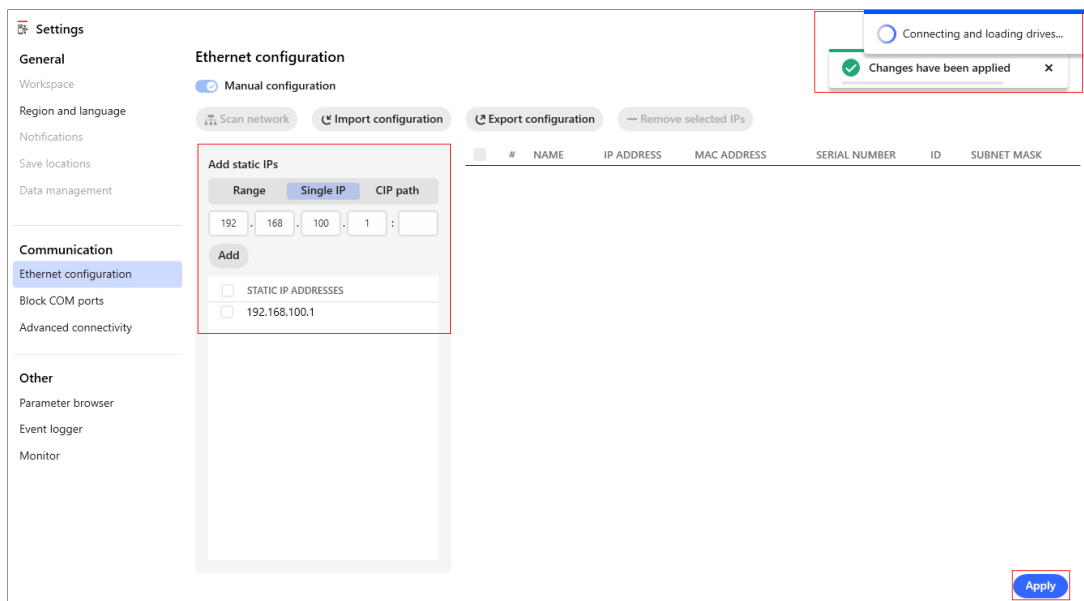
All Non-default Signals Favorites Auto-update Refresh

INDEX	PARAMETER NAME	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
50	Fieldbus Adapter or XETH 1/2					
50.01	FBA A enable	Option slot 1	NoUnit			Disable
50.02	FBA A comm loss...	No action	NoUnit			No action
50.03	FBA A comm loss t...	0.3	s	0.1	6553.5	0.3
50.04	FBA A ref1 type	Auto	NoUnit			Auto
50.05	FBA A ref2 type	Auto	NoUnit			Auto
50.07	FBA A actual 1 type	Auto	NoUnit			Auto
50.08	FBA A actual 2 type	Auto	NoUnit			Auto
50.09	FBA A SW...	Not selected	NoUnit			Not selected

7. To connect the drive to the fieldbus adapter module, set a static IP address in parameter group 51 or 151, e.g., 192.168.100.1. To have several drives in the link, make sure that each drive has a unique address.

Parameters						
ACS580						
Parameters						
All Non-default Signals Favorites						
Auto-update						
INDEX	PARAMETER NAME	DRIVE VALUE	UNIT	MIN	MAX	DEFAULT
51	FBA A settings					
51.01	FBA A type	PROFINET IO	NoUnit			None
51.02	Protocol/Profile	PNIO ABB Pro	NoUnit	0	200	0
51.03	Commrate	Auto	NoUnit	0	4	Auto
51.04	IP configuration	Static IP	NoUnit	0	2	Static IP
51.05	IP address 1	192	NoUnit	0	255	0
51.06	IP address 2	168	NoUnit	0	255	0
51.07	IP address 3	100	NoUnit	0	255	0
51.08	IP address 4	1	NoUnit	0	255	0
51.09	Subnet CIDR	24	NoUnit	0	32	0
51.10	GW address 1	0	NoUnit	0	255	0
51.11	GW address 2	0	NoUnit	0	255	0

- Refresh the fieldbus adapter in parameter **51.27 FBA A par refresh**.
- Go to  (Hamburger menu) → **Settings** → **Ethernet configuration** or go to  (**Connect to drive**) → **Communication settings** → **Ethernet configuration**.
- Under **Add static IPs**, select **Single IP** and enter the same IP address configured in the parameter group 51 or 151, eg, 192.168.1.130. Click **Add**.



The screenshot shows the 'Settings' window with the 'Ethernet configuration' section active. Under 'Add static IPs', the 'Single IP' tab is selected. The IP address '192.168.100.1' is entered in the input field. A green banner at the top right indicates 'Changes have been applied'. A blue 'Apply' button is located at the bottom right of the window.

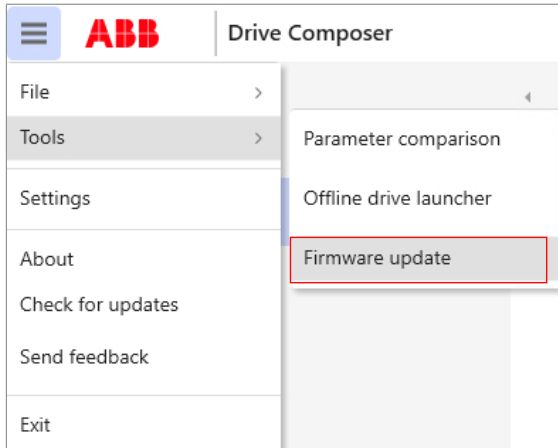
- The new IP address appears in the STATIC IP ADDRESSES list. Click **Apply**. The **Changes have been applied**, and **Connecting and loading drives ...** banners appear. Click x(exit) to close the Settings window. To update the fieldbus adapter firmware, refer to [Updating the fieldbus firmware \(page 135\)](#).

■ Updating the fieldbus firmware

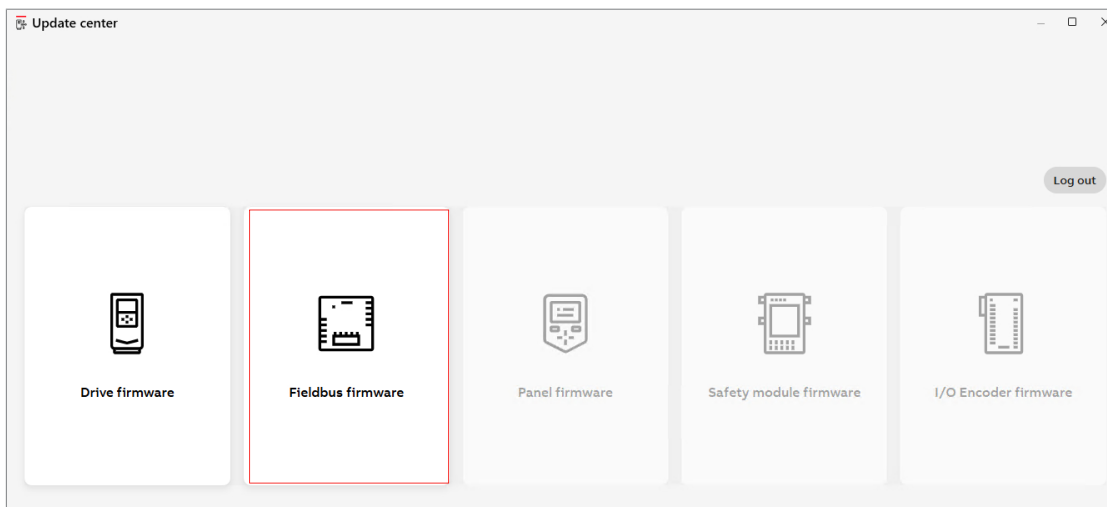
You can update the fieldbus firmware with a loading package in the update center. To update the fieldbus adapter firmware, do the steps as follows:

- Configure the fieldbus adapter. Refer to [Configure the fieldbus adapter \(page 132\)](#).
- Click  (**Connect to drive**).

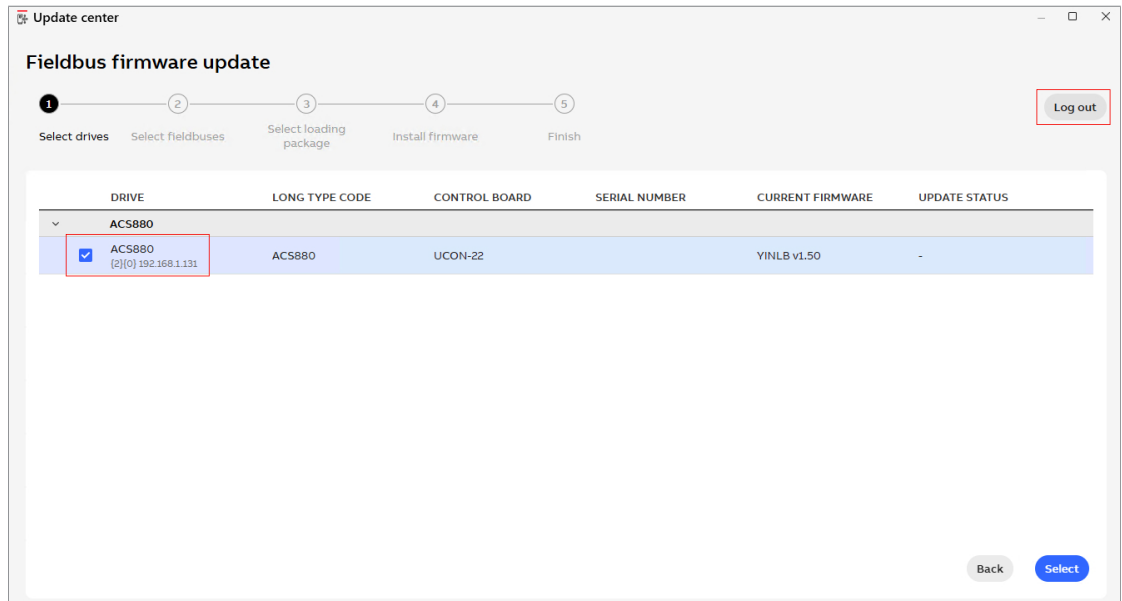
3. Select **Connect to drive via Ethernet** or **Connect to drives via USB/COM** and click **Apply**. Refer to [Connecting to a drive through an Ethernet network \(page 37\)](#) or [Updating fieldbus firmware \(page 132\)](#).
Drive Composer 3 detects the drive.
4. In the ≡ (Hamburger) menu, go to **Tools** → **Firmware update**.



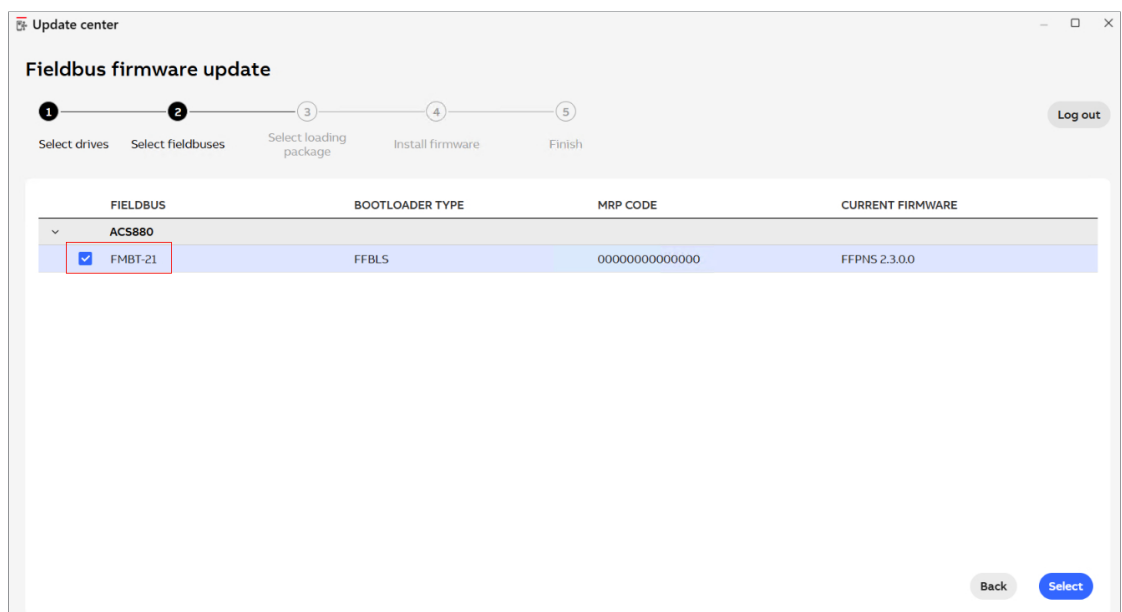
5. In the Update center, click **Fieldbus firmware**.



6. Select the drive for the fieldbus firmware update and click **Select**. Make sure that you are logged in to access firmware updates from the cloud.

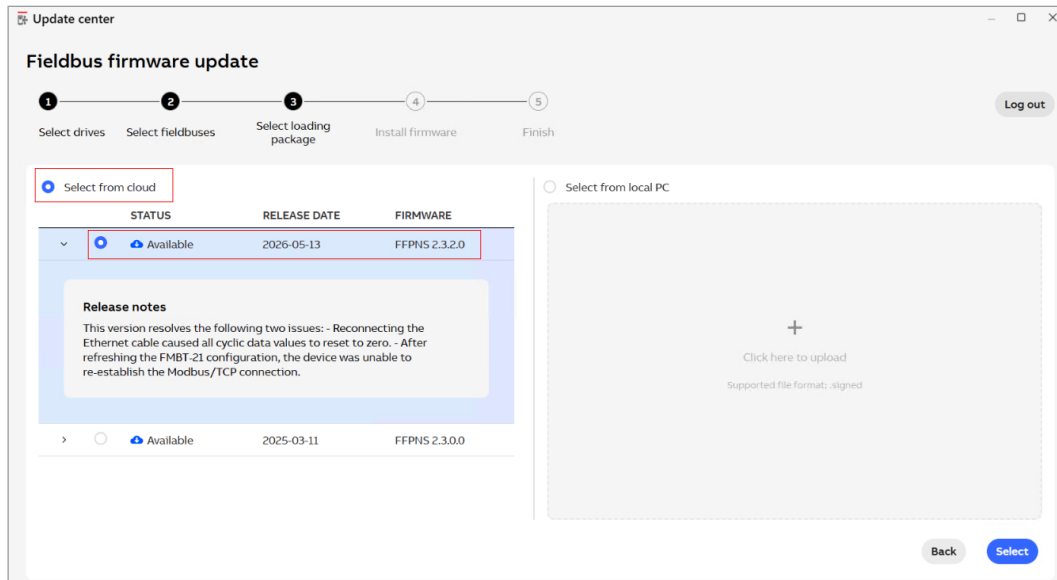


7. Select the fieldbus for the firmware update and click **Select**.

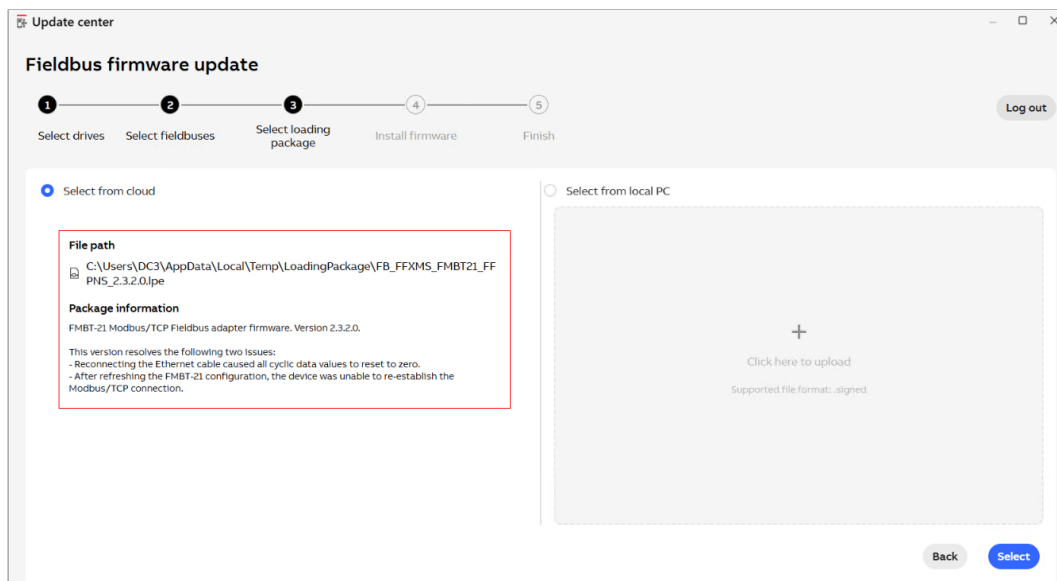


8. You can update the fieldbus firmware package from the cloud or from your local PC.
- To update from the cloud: Click the **Select from Cloud** option → select the necessary firmware package → read through the firmware release notes → click **Select** to download the firmware.

138 Drive configuration



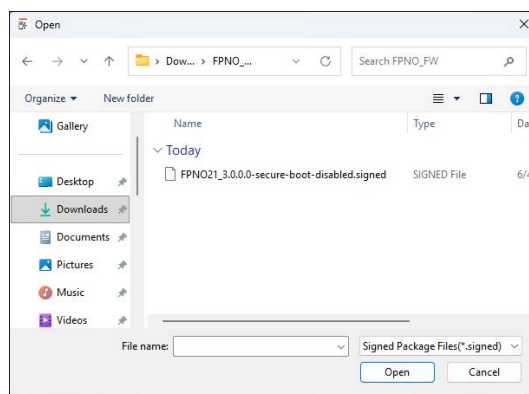
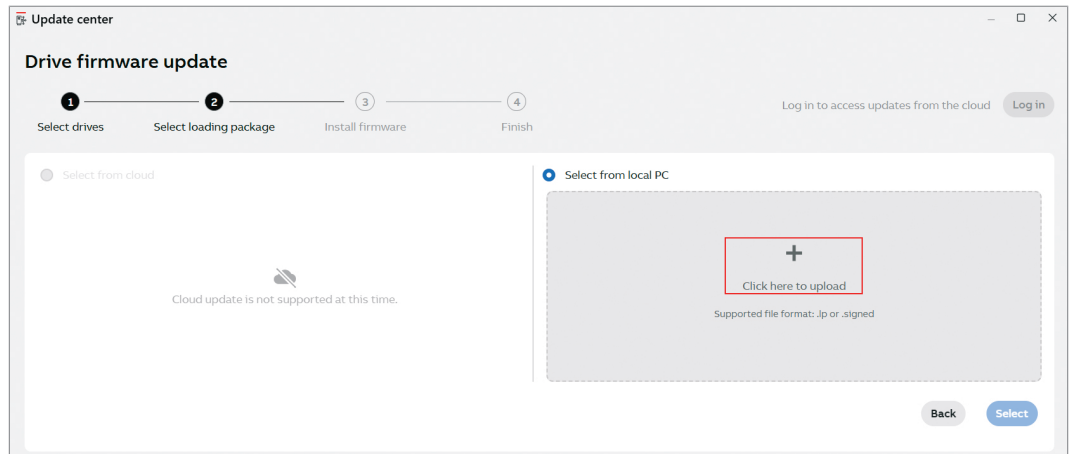
After the package is downloaded from the cloud, the file path and package information appear. Click **Select** and continue to update the package.



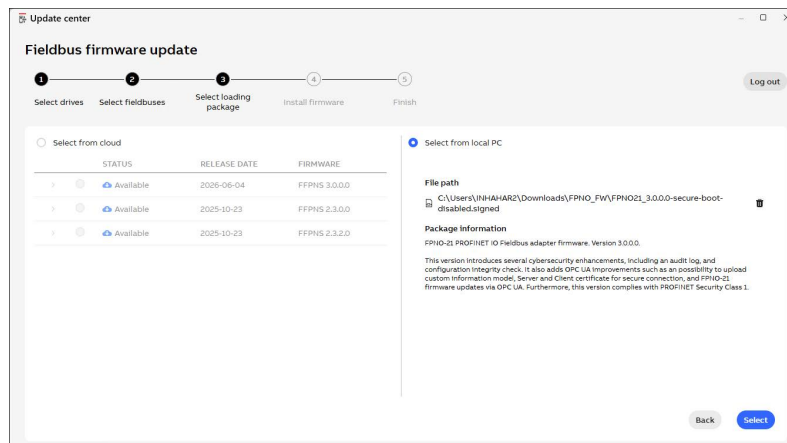
If the package download is not completed, the message "Firmware not downloaded due to network or server error" appears.

- To update from your PC: Consider the below prerequisites and click the **Select from local PC** option → click + to upload the file → select the firmware loading package file (*.signed) on your local PC.

Note: Make sure you download a signed fieldbus firmware package (e.g., **ACS580_ASCK2_2.20.0.13_dofs.signed**) from the Customer Identity & Access Management (CIAM) portal. Refer to [Downloading drive firmware package from CIAM \(page 142\)](#). Do not change the package name.

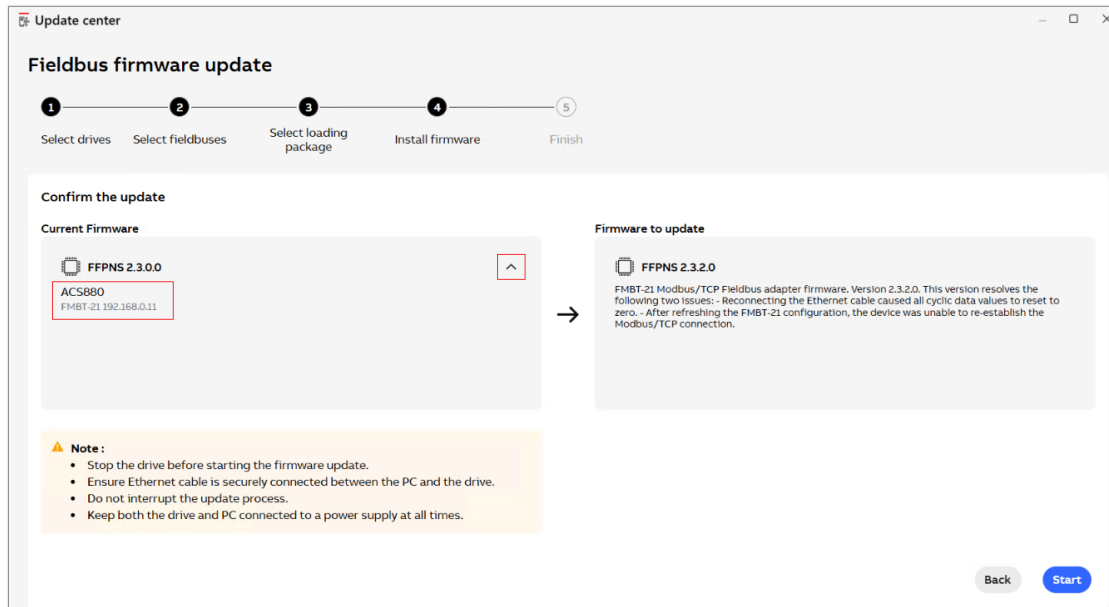


After the package is downloaded from the PC, the file path and package information appear. Click **Select** and continue to update the package.

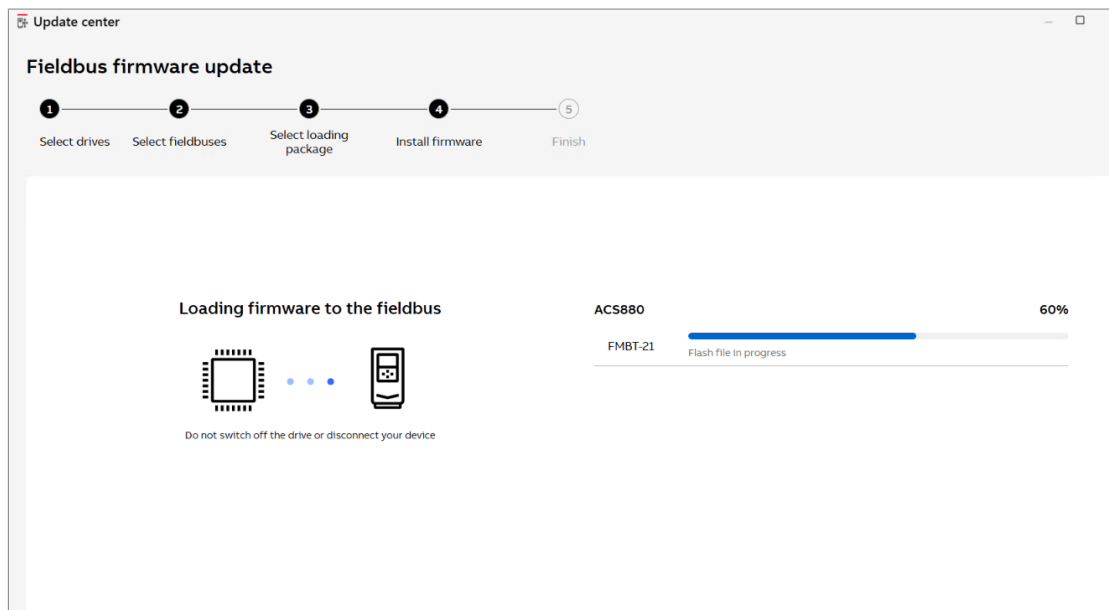


- The current firmware and firmware to update appear. Obey the instructions in the window. Click **Start**.

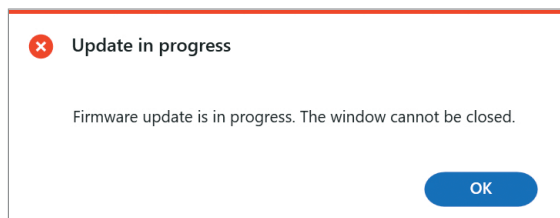
140 Drive configuration



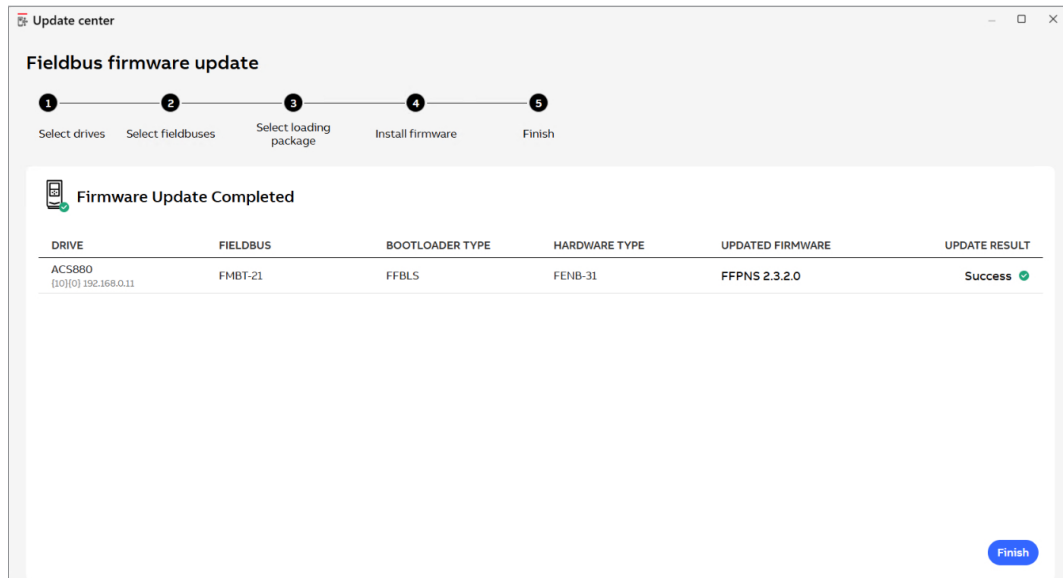
The progress of loading firmware to the fieldbus appears.



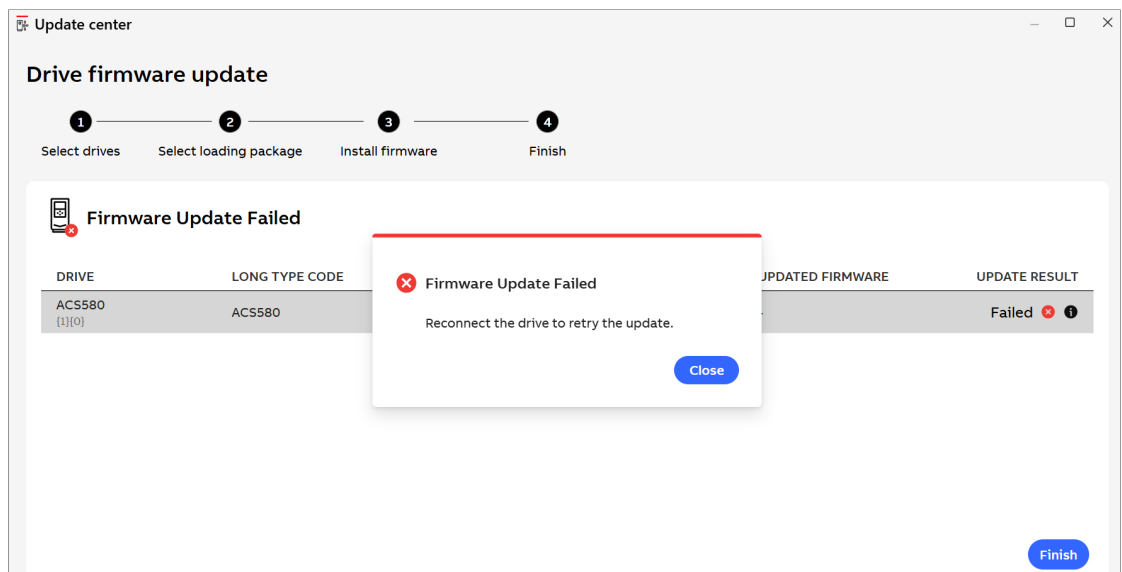
If you switch off/disconnect the drive during the update, this message appears:



- If the update is successful, the message *Firmware Update Completed* appears. Click **Finish**.



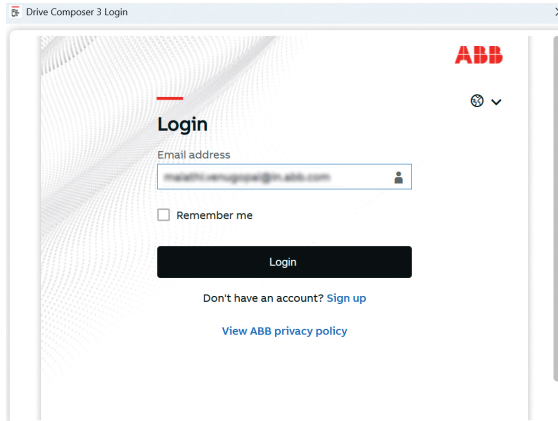
11. If the update failed, the previous version is restored. The message *Firmware update failed* appears. In the update result column, click the info icon for additional instructions. Click **Finish** to close the window.



To continue using the previous firmware version, click (**Connect to drive**).

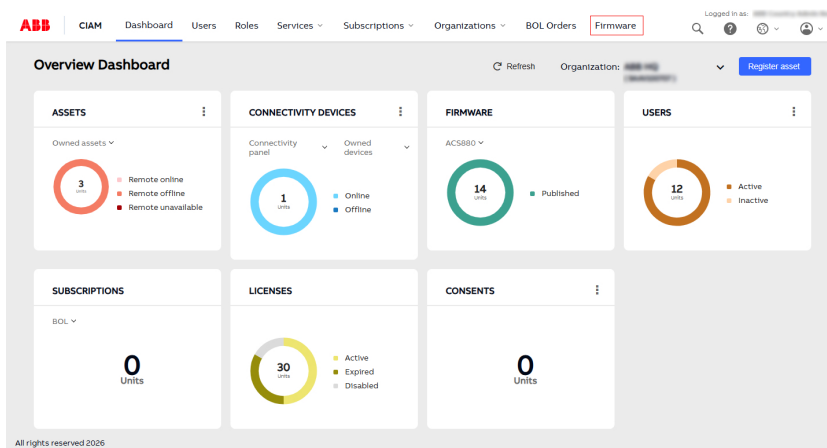
Downloading drive firmware package from CIAM

1. Log in to CIAM using your ABB account. Use the URL <https://accessmanagement.motion.abb.com/#/login>.

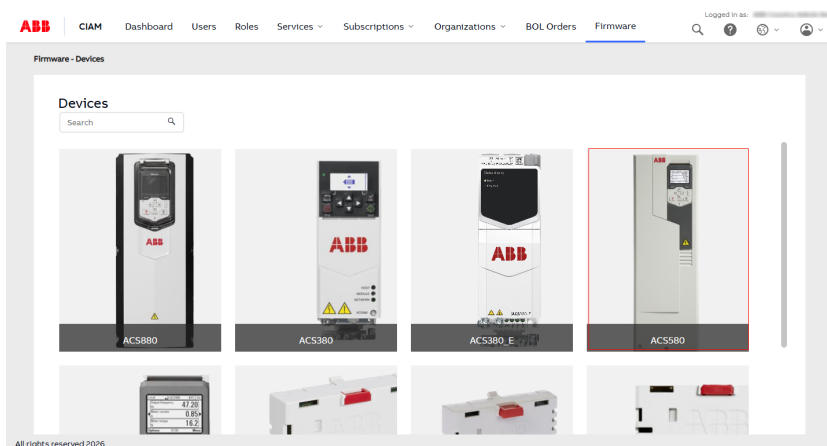


The Overview dashboard window appears.

2. Click **Firmware**.



3. In the Devices list, search for or click the drive you want to download the firmware package.



4. Select the firmware package and click download.

ABB | CIAM | Dashboard | Users | Roles | Services | Subscriptions | Organizations | BOL Orders | Firmware

Logged in as: [User Name]

Firmware - Devices > ACS580

ACS580

Search

FIRMWARE NAME	VERSION	LAST UPDATED ON	STATUS	AVAILABILITY	DOWNLOADABLE	ORGANIZATIONS	ACTIONS
ASCD2	2.20.0.13	28-10-2024	published	public	Yes	-	Download >
ASCD2	2.20.0.34	04-12-2025	published	public	Yes	-	Download >
ASCD4	2.20.0.13	28-10-2024	published	public	Yes	-	Download >
ASCD4	2.20.0.34	04-12-2025	published	public	Yes	-	Download >

Showing 1 - 4 / 4

Page 1 / 1 < 1 >

All rights reserved 2025

The firmware package is downloaded to your PC. The message "Firmware downloaded successfully" appears.

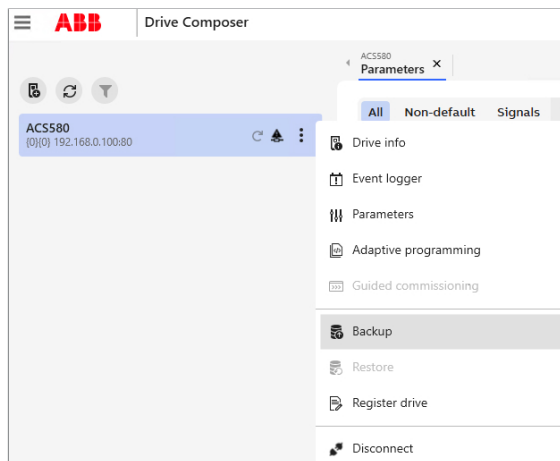
Drives parameter backup

■ Creating a backup of a drive

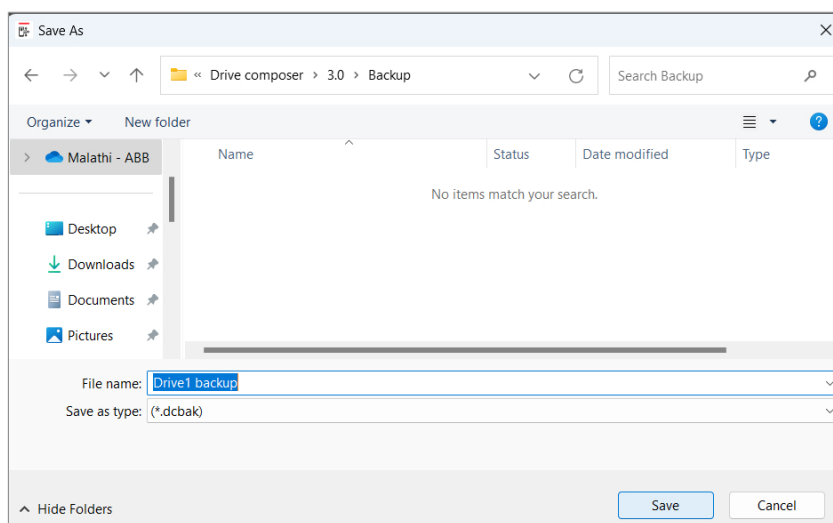
You can create a drive parameters backup *.dcbak format and save it to your PC. Make sure that the conditions below are satisfied:

- The drive for backup is connected.
 - The backup function is enabled with parameter **96.102 User lock functionality**. The bit value selections are drive-specific, for example:
 - ACS380-E - bit 6 **Disable backup-restore** = 1
 - ACS580 - bit 4 **Disable backups** = 1 and bit 8 **Protect AP** = 1
 - ACS880 - bit 6 **Protect AP** = 0.
- Refer to the individual drive firmware manuals for information on drives not listed in the above example.

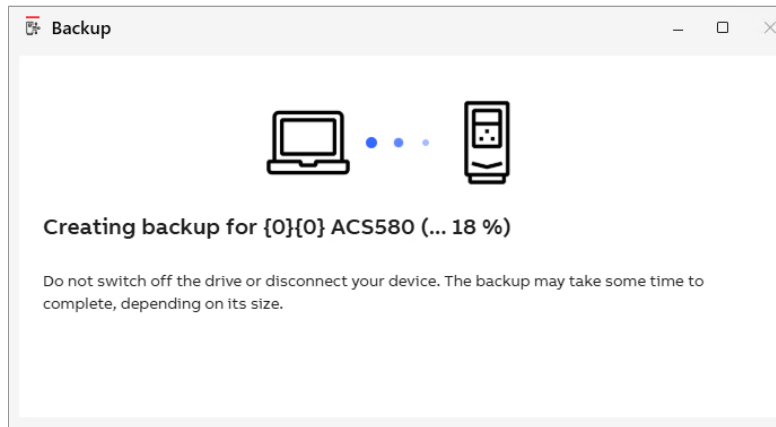
1. In the drives list panel, click : (vertical ellipsis) and select **Backup**.



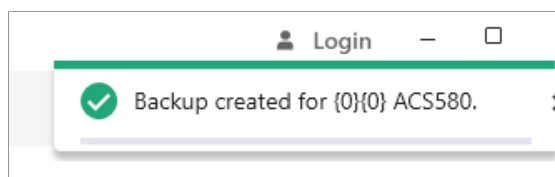
2. Select a backup file location and give a file name. Click **Save**.



The backup progress message appears. Obey the instructions in the message box.



3. The backup created banner appears.



The drive backup file is created in ***.dcbak** format.

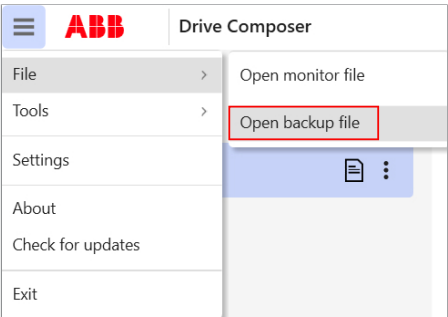
To view the backup file, refer to [Viewing a parameter backup file \(page 146\)](#).

■ Viewing a parameter backup file

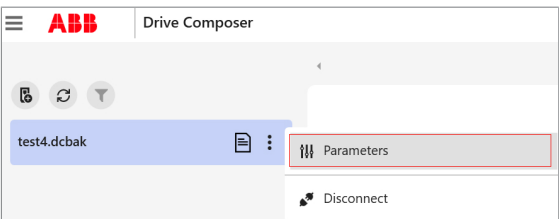
You can view parameters from the *.dcbak backup file using the Parameters browser.

Note: Backup files created only from Drive Composer version 3.4 and later can be viewed.

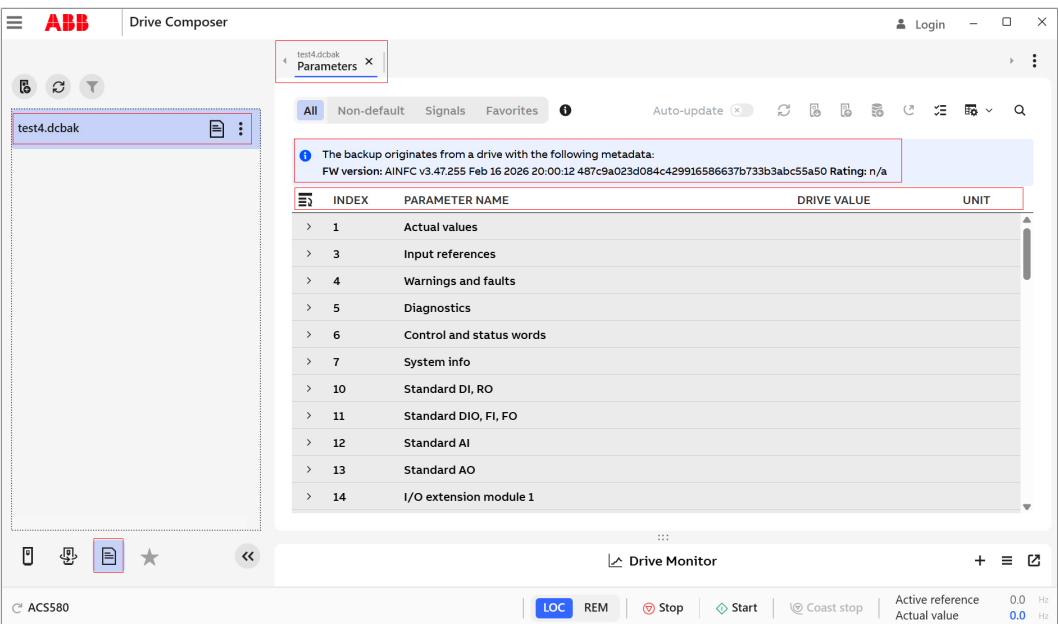
1. In the ≡ (Hamburger) menu, go to **File** → **Open backup file**.



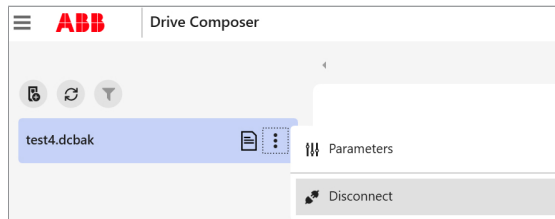
2. Open the *.dcbak file on your PC.
3. In the drives list panel, click **Parameters**.



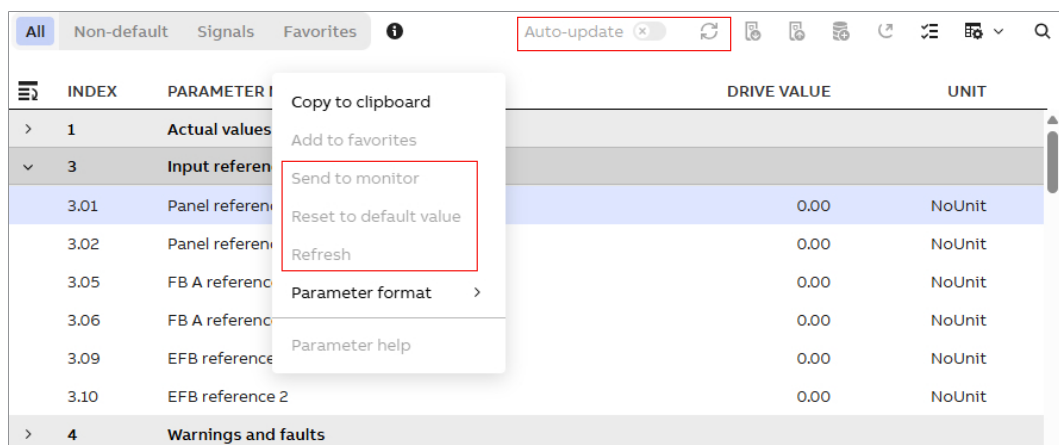
The backup file shows the parameters tab as the default. The file shows the drive firmware version and the timestamp for creating the file. The parameter browser shows the index, parameter name, drive value, and unit. For more information, refer to the [Parameters browser \(page 83\)](#).



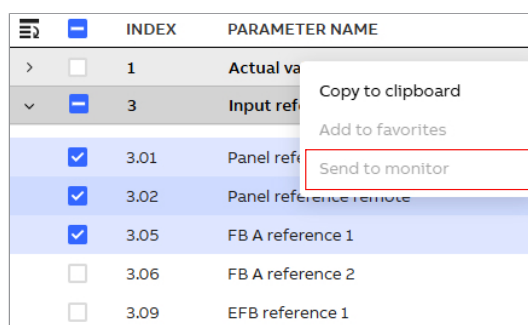
4. To close the backup file, click **Disconnect** in the Drives list panel.

**Note:**

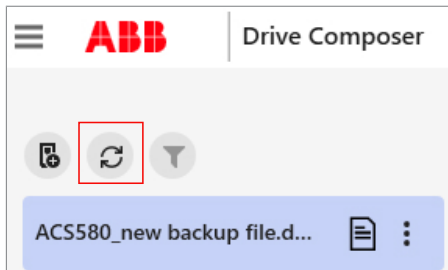
- Some parameter types (listed below) cannot be stored or viewed in the backup file due to type, system, or drive limitations. Drive Composer 3 backup content may differ from Drive Composer 2 due to design changes. ABB recommends that you manually record the parameters and manage them if they are critical to system configuration or recovery processes.
 - Signal (read-only)** parameters for monitoring the drive (e.g., parameters 45.24...45.38 in ACS580 drive)
 - Write-protected** parameters for pass codes and other security-related settings (e.g., parameter 96.02 Pass code)
 - Command-type** parameters for operational commands (e.g., 49.06 Refresh settings, 51.27 FBA A par refresh).
- The following functions are disabled in the backup file:



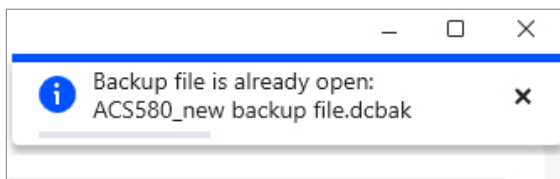
- Parameter browser commands: **Auto-update**, **Refresh**.
- Parameter context menu: **Send to monitor**, **Reset to default**, and **Refresh**.
- Parameter group context menu: **Send to monitor** and **Refresh**.
- Multi-select mode: **Send to monitor**.



- In the drive connection panel,  (**Refresh**) does not remove the files.



- It is not possible to open duplicate backup files in the parameter browser. The notification "Backup file is already open" appears.



■ Restoring a drive backup

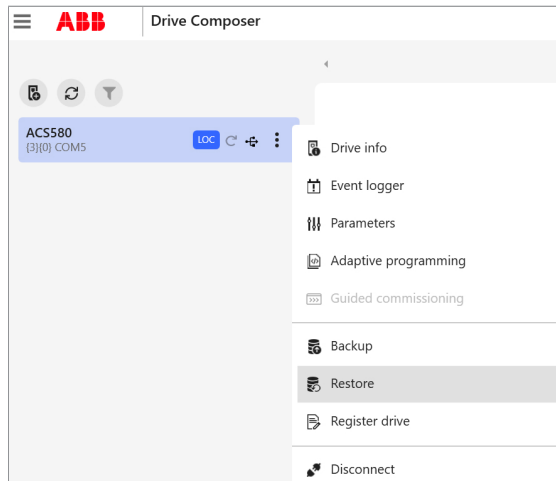
You can restore a drive backup file in ***.dcbak** or ***.dcpparamsbak** format. Make sure that the following conditions are satisfied:

- The drive specific to the backup file you want to restore is connected.
- The drives (e.g., ACS580 and ACQ80) are in local (**LOC**) control mode. Some drives (e.g., ACS880 and ACS380-E) can operate in either local (LOC) or remote (REM) control modes.
- The restore function is enabled with parameter **96.102 User lock functionality**. The bit value selections are drive-specific, for example:
 - ACS380-E - bit 6 **Disable backup-restore** = 1
 - ACS580, ACQ80 and ACS880 - bit 2 **Disable file download** = 1.

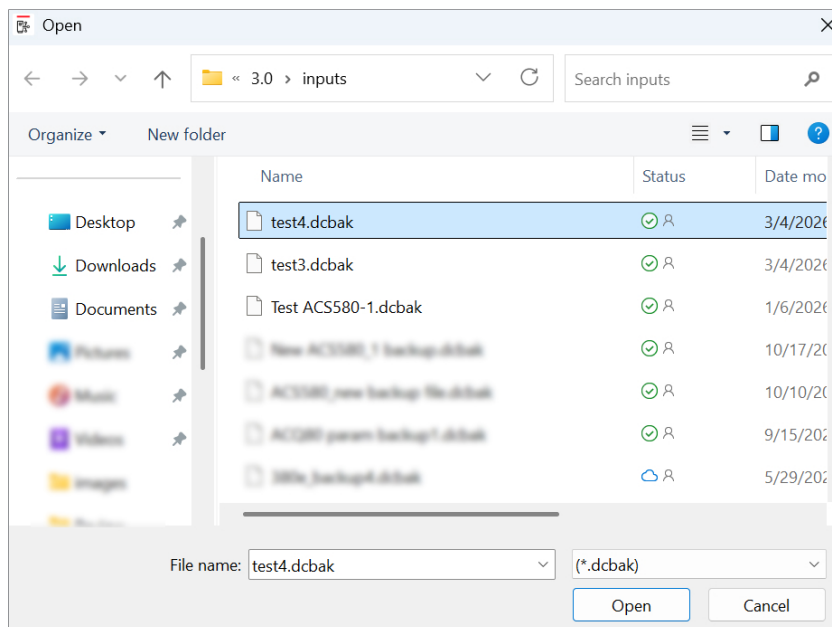
For parameters and bit values of drives not listed in the above example, refer to the firmware manuals.

Note: Restoring a parameter file overwrites the Adaptive program.

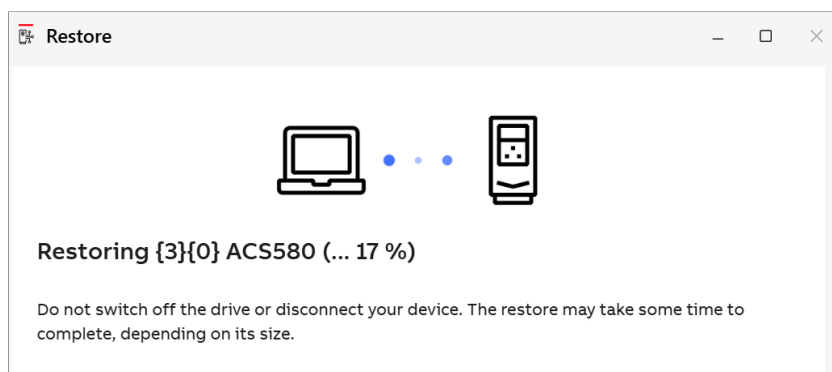
1. In the drive list panel, click : (vertical ellipsis) against a connected drive and select  **Restore**.



2. Select the drive parameter backup file (*.dcbak or *.dcpparamsbak) you want to restore to the drive and click **Open**.

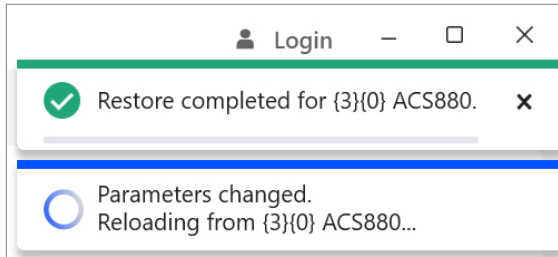


The restoring drive progress message appears.



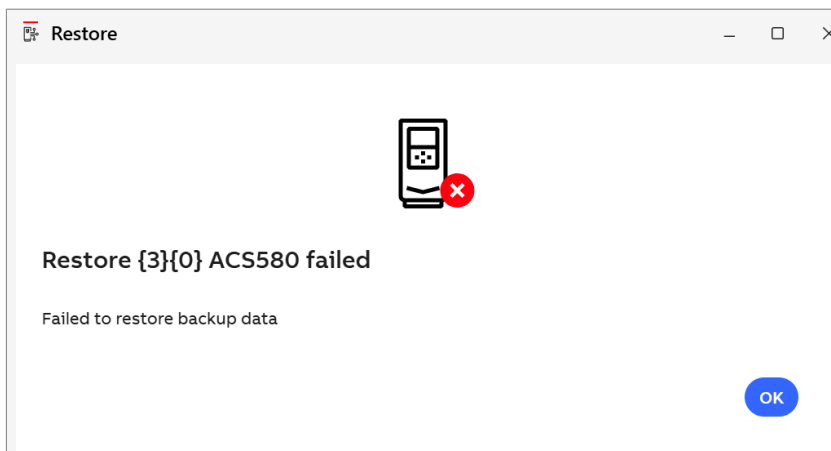
The Restore complete banner appears. The Parameters changes message appears.

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All available components are restored from the backup file, and all unavailable components are preserved in the drive. The Restore report shows a detailed status.

3. If the Restore failed message appears, click **OK**. Restart Drive Composer, and check the connections before the backup.



You can check the log file saved at
C:\Users\CurrentUser\Documents\DriveWare\Composer\Logs.

Launching offline drives

The offline drive is a digital representation of a variable speed drive without a motor model. You can configure, validate, backup, and restore drive parameters. In Drive Composer 3 you can set up, start, and connect to the offline drive. You can set parameters, input signals, and verify that the expected response is available for the initial tests.

Note:

- The maximum number of offline drives you can use at one time depends on the computer's performance and other programs running at the same time. ABB recommends a maximum of 15 offline drives at one time. Running more than 15 offline drives can slow down the application or cause it to stop responding.
- You cannot update the firmware for offline drives. You must have a separate offline file for each firmware version.

You can

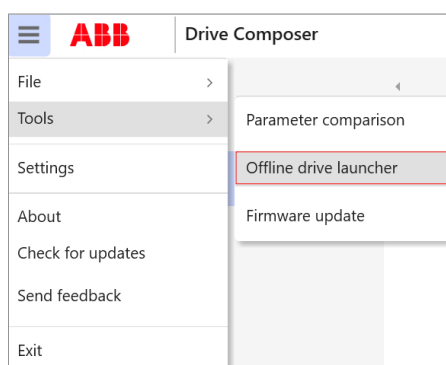
- [Create a new offline drive \(page 151\)](#)
- [View an offline drive \(page 154\)](#) or
- [Edit an offline drive \(page 156\)](#).

■ Create a new offline drive

Prerequisite: Download a signed firmware package from the Customer Identity & Access Management (CIAM) portal under the required devices, e.g., ACS580. Copy the downloaded package, e.g., **ACS580_ASCK2_2.20.0.13_dofs.signed**, and save it on your PC. Do not change the package name.

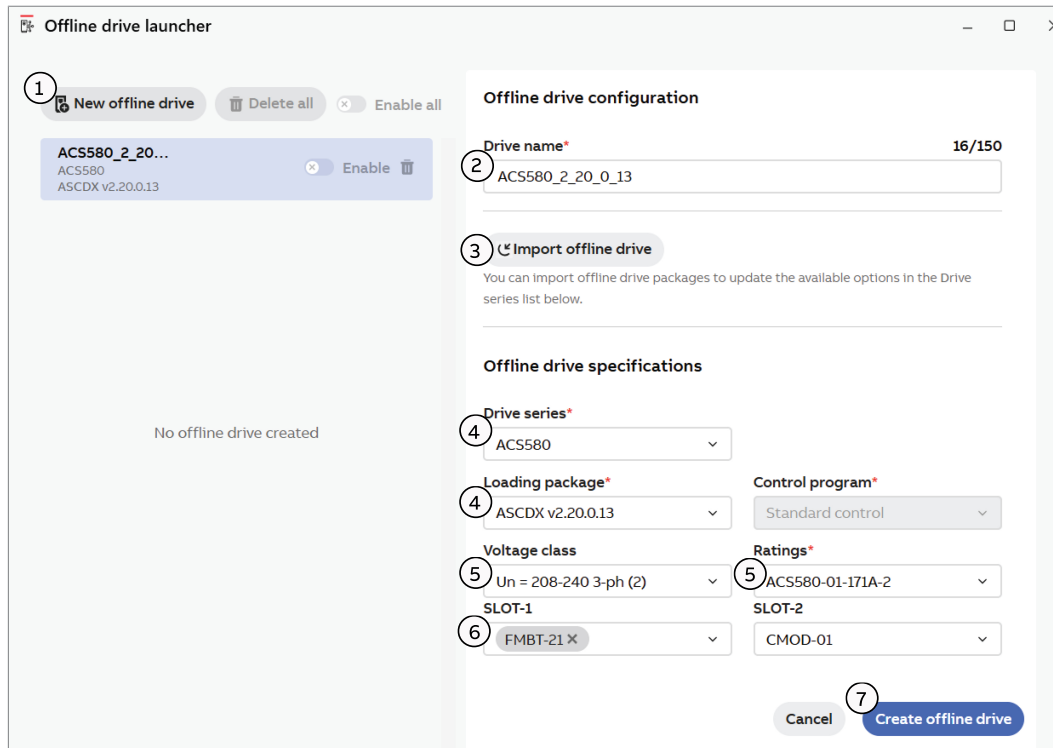
You can create a new offline drive by importing a signed firmware package into your PC:

1. In the Title bar, go to  (Hamburger) menu → **Tools** → **Offline drive launcher**.



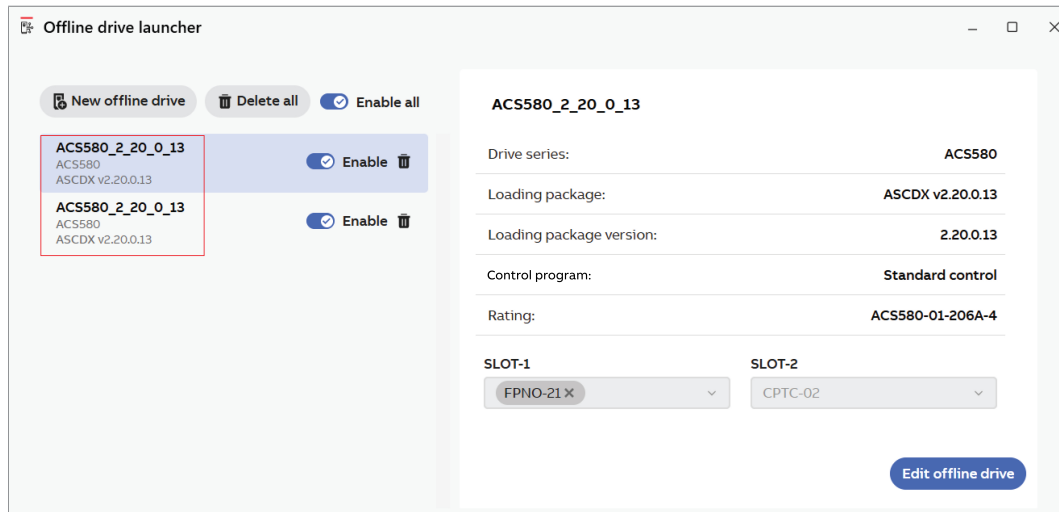
2. In the Offline drive launcher, click **New offline drive**[1].

152 Drive configuration



3. In the Offline drive configuration, click **Import offline drive**[3].
4. Open the signed drive firmware package in your PC, e.g., *ACS580_ASCK4_2.20.0.13_dofs.signed*, and click **Open**.
The message *Import offline drive is in progress* appears.
If the import failed, the log file shows the reason for failure, e.g., *Package already installed!*
5. In Offline drive specifications, select the **Drive series** [4] and **Loading package** [4].
The drive series and loading package combination
 - automatically fills the **Drive name** [2], e.g., *ACS580_2_20_0_13*. You can also edit your preferred drive name.
 - shows the associated control program, e.g., *Standard control*.
6. Select the drive **Ratings** [5] and **Voltage class** [5].
If the voltage class is not selected, all the ratings are listed. Only an appropriate combination of voltage class and ratings is accepted.
7. Optional: Select slots 1 and 2 [6], e.g., *FMBT-21x* and *CMOD-01*.
8. Click **Create offline drive** [7].

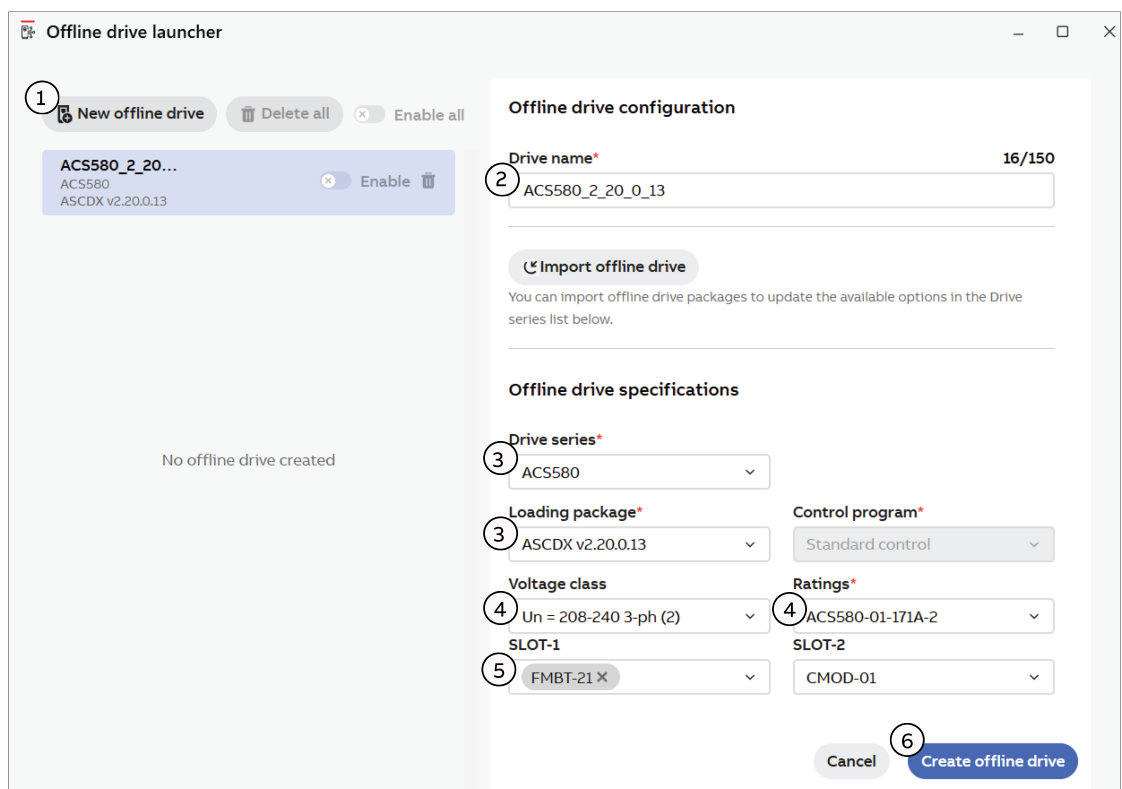
The message *Offline drive created* appears, and the new offline drive appears in the main panel.



If you want to view or connect to the previous offline drives, in the drives connection panel, click (**Refresh**). Refer to [View an offline drive \(page 154\)](#).

If an imported offline drive package already exists, you can create a new offline drive for different combinations of voltage class and ratings.

1. In the Offline drive launcher window, click **New offline drive**[1].



2. In the Offline drive specifications, select the **Drive series** [3] and **Loading package** [3].

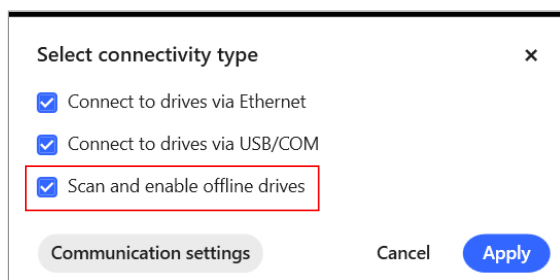
The drive series and loading package combination

- automatically fills the **Drive name** [2], e.g., `ACS580_2_20_0_13`. You can also add or edit your preferred drive name.
- shows the associated control program, e.g., *Standard control*.

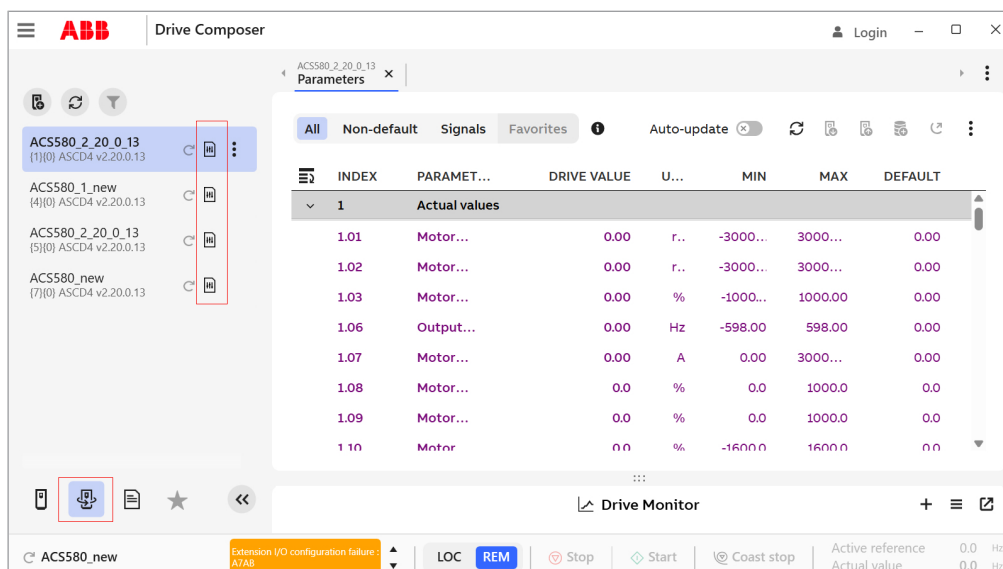
3. Select the drive **Ratings** [4] and **Voltage class** [4].
Note: If a voltage class is not selected, all the ratings are listed. Only an appropriate combination of voltage class and ratings is accepted.
4. Optional: Select slots 1 and 2 [5], e.g., *FMBT-21x* and *CMOD-01*.
5. Click **Create offline drive** [6].
The message *Offline drive created* appears. The new offline drive appears in the offline drives main panel.

■ View an offline drive

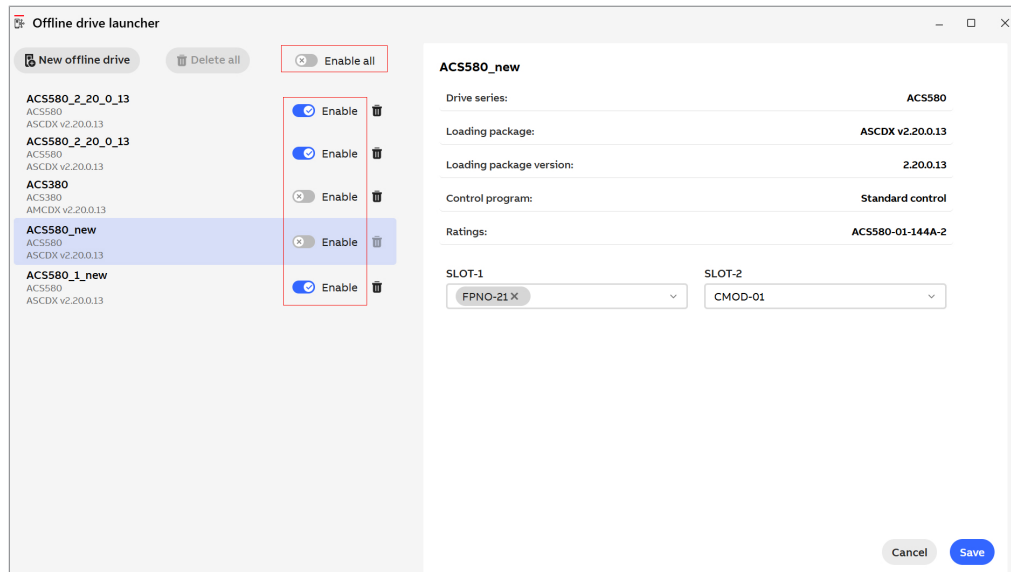
1. In the drive's main panel, click  (**Connect to drive**).
2. In the Select connectivity type window, select **Scan and enable offline drives**. Click **Apply**.



3. If the offline drive(s) are
 - enabled, the main panel shows the drives as  (OCE connection) drives.



- not enabled, in the  (Hamburger) menu, go to **Tools** → **Offline drive launcher**. Enable all or an individual drive. Click **Edit offline drive** and then **Save**.



In the drive connection panel, the offline drives appear as  (OCE connection) drives. You can click on an offline drive and view its parameters and other drive information.

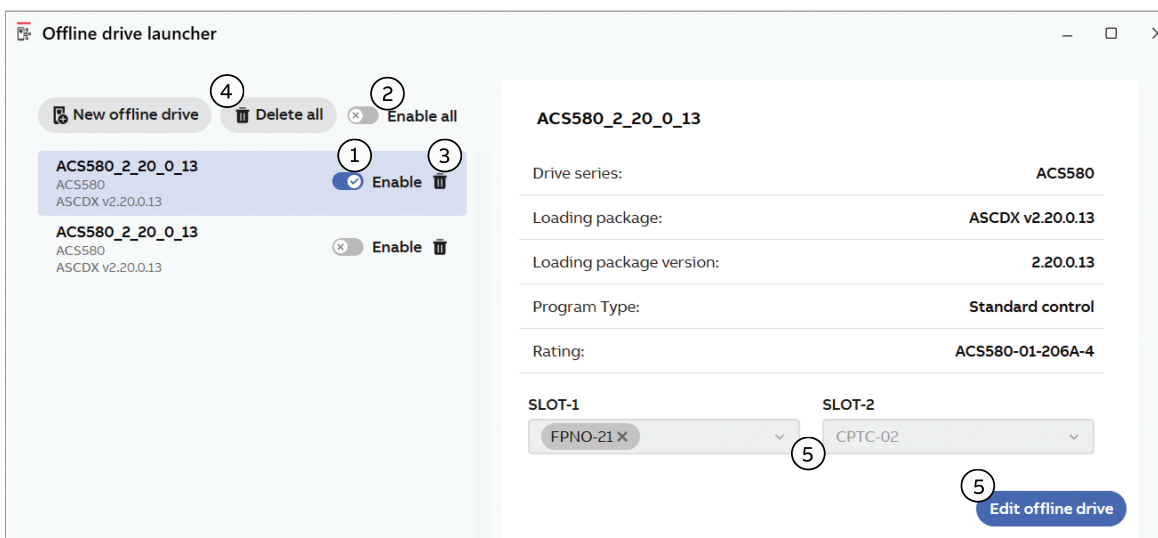
■ Edit an offline drive

In the Offline drive launcher, you can edit the offline drives listed in the main panel.

You can

- enable or disable one [1] or all [2] offline drive(s).
- delete one [3] or all [4] offline drive(s). A deleted offline drive is disconnected and removed from the main panel.
- click **Edit offline drive** [5] and change the slots.

When you edit a connected offline drive in the main panel, the drive is disconnected from the main panel to apply the changes. It connects again and appears in the main panel. The "Offline drive edited successfully" message appears.



10

Other functions

Contents of this chapter

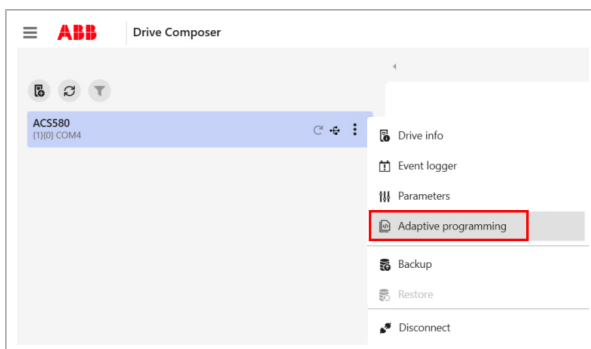
This chapter gives information about common functions that are not associated with any view or window.

Adaptive programming

The Adaptive programming feature can be used to control the operation of a drive by parameters. Each parameter has a fixed set of choices or a setting range. The parameters make programming easy, but the choices are limited. It is not possible to customize the operation further.

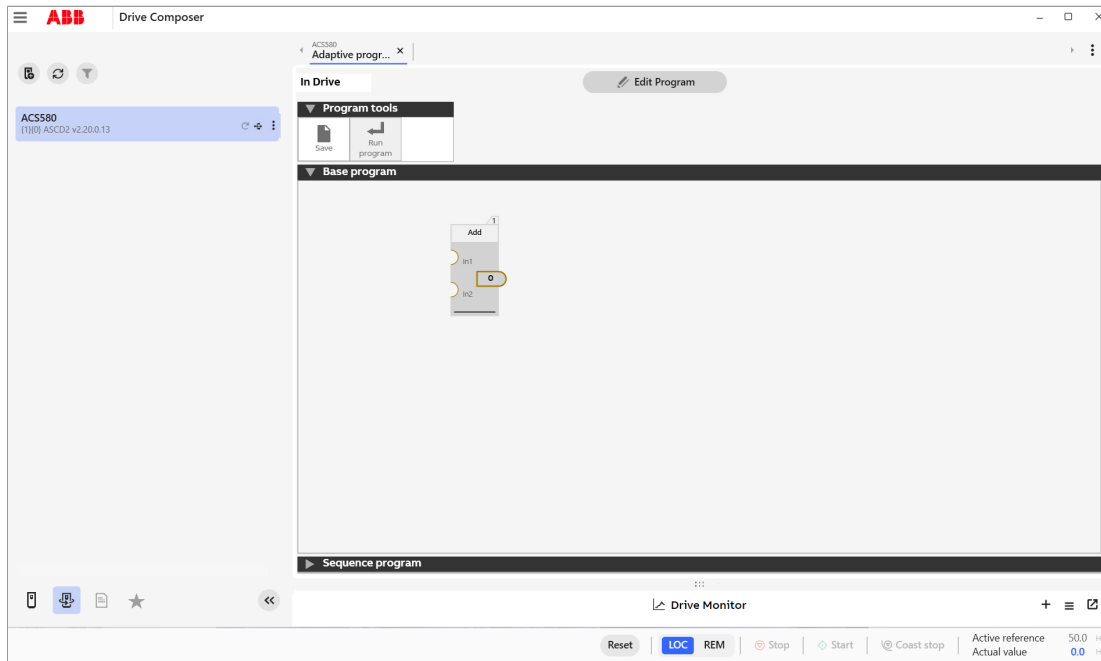
With Adaptive programming, it is possible to customize without the need of a special programming tool or language. The program is built of function blocks.

In the connected drive, click : (vertical ellipsis) and select  **Adaptive programming**.



The Adaptive programming window appears.

158 Other functions



For more information, refer to the Adaptive programming application guide in [Related documents \(page 12\)](#).

Drive Composer CIAM login

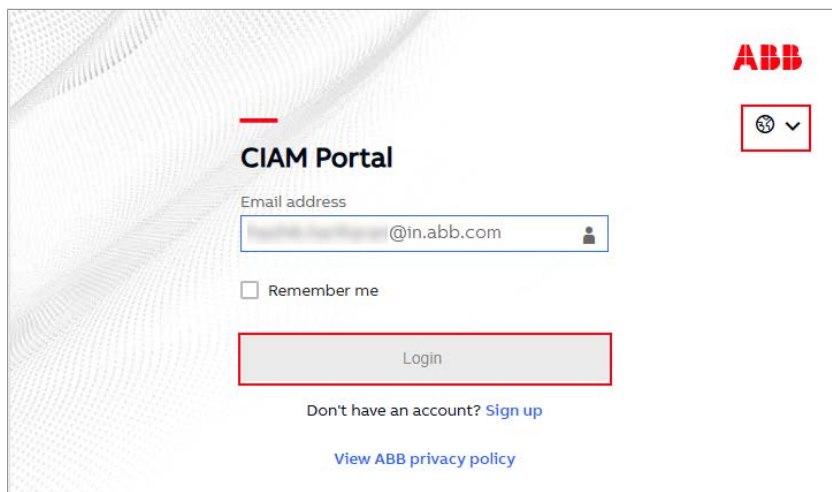
You can log in to Drive Composer using your ABB account or an authorized personal email ID. ABB's Customer Identity Access Management (CIAM) validates and authorizes access to Drive Composer.

- [Log in with an ABB account](#)
- [Register your personal email ID in CIAM](#)
- [Log in using an authorized personal email ID.](#)

■ Log in with an ABB account

To log in to Drive Composer using your ABB account,

1. In the CIAM Portal login wizard, enter your ABB email ID.

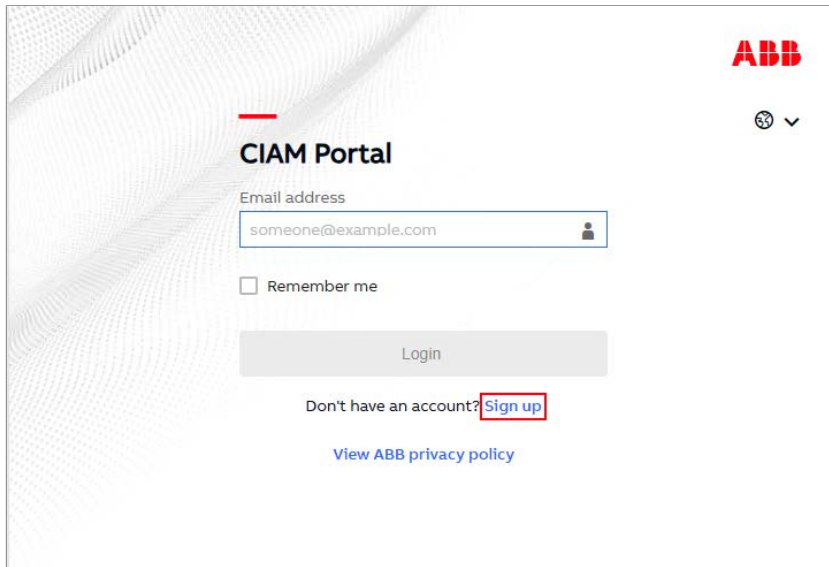


2. Select your preferred language. Click **Login**.
If the login is successful, the Drive Composer window appears in the selected language.

■ Register your personal email ID in CIAM

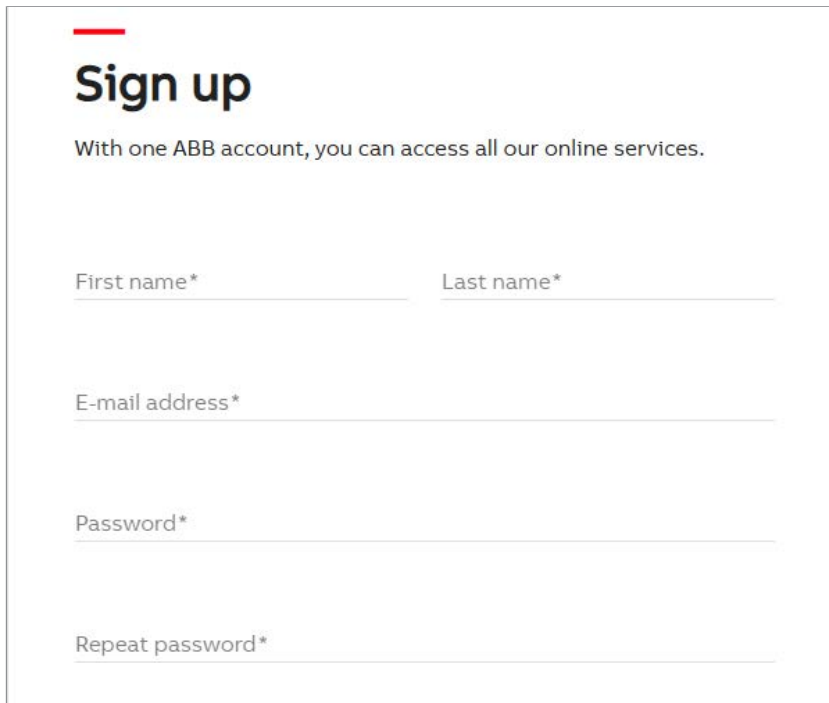
You can register your personal email ID in CIAM and be authorized to use Drive Composer. To register your email ID, do the steps as follows:

1. In the CIAM Portal login wizard, click the **Sign up** link.



2. In the Sign up page, enter your name, Email ID, and password.

* indicates mandatory information.



3. In Additional information, select your user type (Business or Private) and enter the necessary information.

Additional information

Are you a business or private user?

☒ Business ☐ Private

Company / school / institution*

Phone number

Country or region*

My Main Interest is

4. Complete the preferred security information.

Security

Security question

Which phone number do you most clearly remember from your childhood?

Answer to security question*

CAPTCHA*

Please enter the text below



Can't read? [Try another.](#)

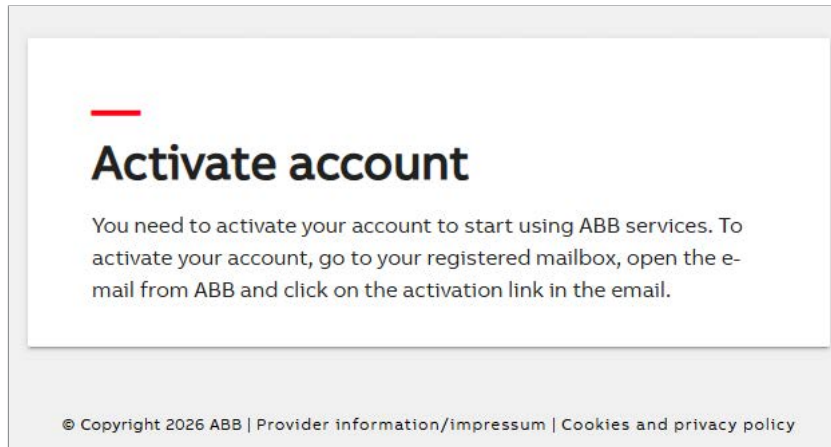
☐ I have read and agree to [ABB privacy policy](#)*

☐ I consent to receive offers and news on products, services and events from ABB in accordance with ABB's Privacy Policy

SIGN UP

5. Read and agree to ABB's privacy policy. Click **SIGN UP**.

If the sign-up is successful, the "Activate account" message appears. You will receive an email to the registered email ID.



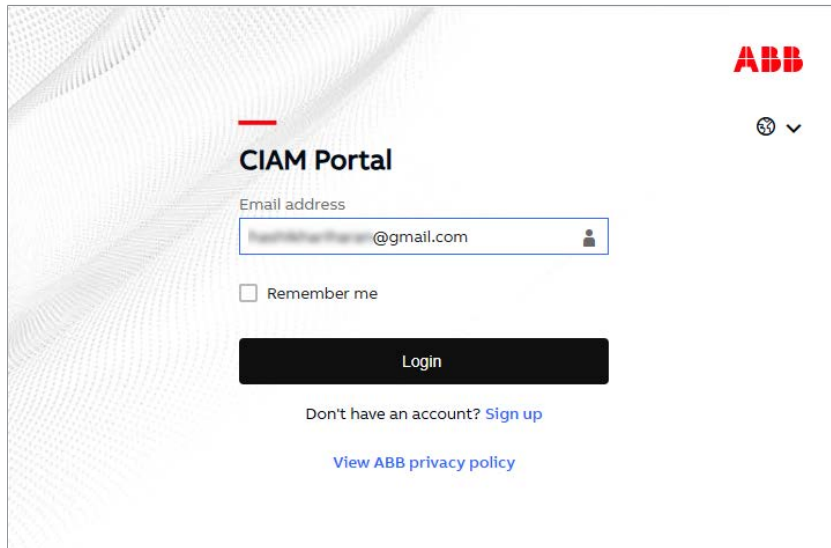
6. Open the email from ABB and click on the activation link. Continue to [Log in using an authorized personal email ID \(page 163\)](#).

■ Log in using an authorized personal email ID

You can log in to Drive Composer using an authorized personal email ID. Make sure you registered your email ID in CIAM. Refer to [Register your personal email ID in CIAM](#).

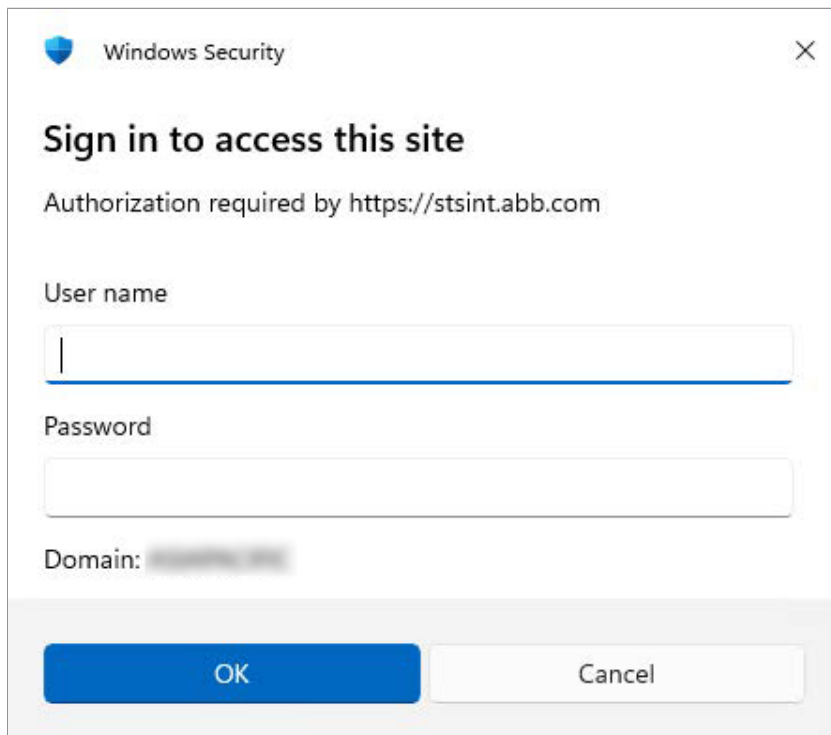
To log in using an authorized personal email ID,

1. In the CIAM Portal login wizard, enter your email ID and select the preferred language.
2. Click **Login**. Select **Remember me** if required.



The Windows Security dialog appears. The dialog appearance may differ depending on the user type and organization.

3. In User name, enter the authorized email ID and password. The domain is updated according to the user type. Click **OK**.



4. In the Get started with ABB Motion wizard, you can select either of the following options and click **Next**.

- **Create an organization** to add to CIAM (refer to [Create organization \(page 164\)](#)) or
- **Join an existing organization** to request access to an existing organization (refer to [Join an existing organization \(page 166\)](#)).

You can also view and download the drive's public firmware from this wizard.

Get started with ABB Motion
Set up your account here to create your own organization or join existing organization

Create organization
Start your journey by creating your organization

Join existing organization
Request access for an existing organization

[View drive public firmware](#)

Cancel Next Logout

Create organization

a. In the Create organization wizard, add your organization name and address. Click **Next**.

1 Create organization **2** Add site **3** Complete

Add details related to your organization

Organization name *
Enter organization name

Address (Optional)
Enter address

City (Optional)
Enter city name

Post Code (Optional)
Enter post code

Country *
India

Previous Next

b. Add details related to your site, e.g., site name and address. Click **Next**.

ABB

1 ☒ Create organization 2 ☒ Add site 3 ☐ Complete

Add details related to your site

Site name*

Site address*

Site city (Optional)

Site post code (Optional)

Plant/building (Optional)

Country*

- c. Confirm the organization and site information and click **Create**.

ABB

1 ☒ Create organization 2 ☒ Add site 3 ☐ Complete

Organization summary

Organization name	Address	City
Documentation test	---	---
Postal code	Country	
---	India	

Site summary

Site name	Site address	Site city
AIC_documentation	AIC Brigade Southfield	---
Site post code	Plant/building	Site country
---	---	India

Your organization is registered in CIAM. The "Asset registration" message shows you are authorized to register an asset. Click **Yes** to continue with registering an asset, or click **Skip**.

Asset registration

You need to register your asset to see the conditioning monitoring data (provided you have subscription). You can register your asset in the next step or skip and do it later in CIAM portal.

Do you wish to register asset now?

Join an existing organization

You can join an existing organisation or join your colleague's organisation with the consent of the organisation administrator. To send a request to the organization administrator,

- a. In the Contact admin page, enter the organization name/ID you want to join.

Contact admin

Please contact the organization admin for your request. Provide your organization name/ID or colleague's email id and reason to send request.

Organization name/ID

Colleague's email ID

Admin email ID

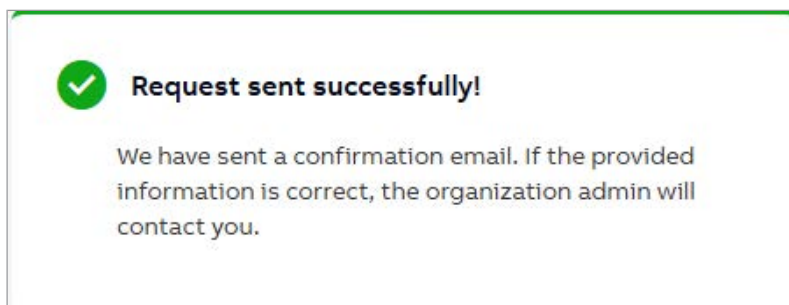
Reason

Cancel

Send request

- b. If you prefer to join an organization that your colleague is in, enter the colleague's email ID.
- c. Enter the organization admin's email ID.
- d. Enter the reason for joining the organization. This information helps the admin add you to the organization. Click **Send request**.

The "**Request sent successfully!**" message appears. You can wait for a response from the organization admin.



Register drive

All ABB assets (e.g., Drives) are managed in the Customer Identity & Access Management (CIAM). Drive Composer 3 lets you register a drive serial number for an organization within CIAM. Make sure Drive Composer is online and connected to the drive to complete the drive registration. You can register one asset at a time or multiple assets for a single site and location.

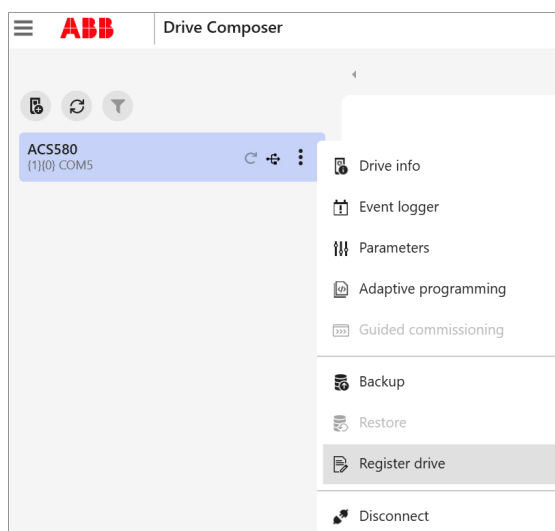
Refer to,

- [Register a single asset \(page 167\)](#)
- [Register bulk assets \(page 172\).](#)

■ Register a single asset

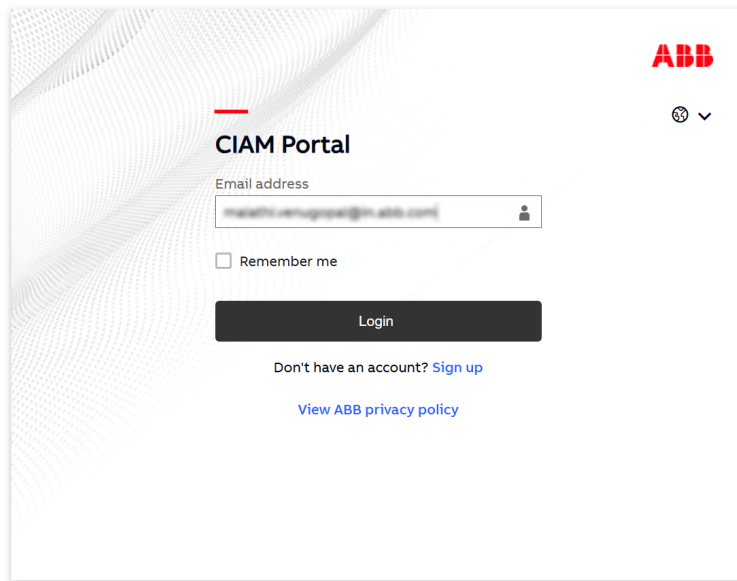
To register one asset at a time,

1. From the drive context menu, select **Register drive**.



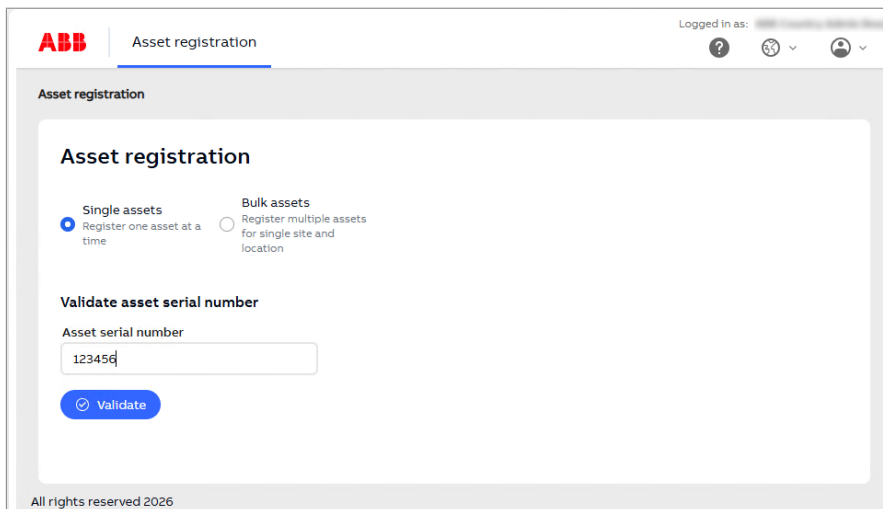
The Register drive window appears and takes you to the CIAM portal.

2. Log in to the CIAM portal using your ABB account. Obey the instructions in the wizard. For more information, refer to [Drive Composer CIAM login \(page 159\)](#).



The screenshot shows the ABB CIAM Portal login interface. At the top right is the ABB logo. Below it, the text "CIAM Portal" is displayed. A red horizontal line is positioned above the "Email address" label. The email address "max@mc-vmgrouped@in-abb.com" is entered in the text field. To the right of the text field is a user icon. Below the text field is a checkbox labeled "Remember me". A black "Login" button is centered below the checkbox. At the bottom, there is a link "Don't have an account? Sign up" and a link "View ABB privacy policy".

3. In the Asset registration page, select **Single asset**.



The screenshot shows the ABB Asset registration page. The ABB logo is in the top left corner. The page title is "Asset registration". In the top right corner, it says "Logged in as:" followed by a user icon and a dropdown arrow. The main content area is titled "Asset registration". It contains two radio button options: "Single assets" (selected) and "Bulk assets". Below the "Single assets" option is the text "Register one asset at a time". Below the "Bulk assets" option is the text "Register multiple assets for single site and location". Below these options is a section titled "Validate asset serial number". It contains a text field labeled "Asset serial number" with the value "123456". Below the text field is a blue "Validate" button. At the bottom left, it says "All rights reserved 2026".

4. Type a valid asset (drive) serial number (for example, 12345678) and click **Validate**. For more information, refer to the drive serial number on the type designation label or the drive's hardware manual.
Note: You can register a serial number only once. If you try to register it again, you see the message: "This serial number has already been registered."
5. If multiple assets are available for the same serial number, you can select the appropriate asset and click **Proceed**.

Multiple assets available for the serial number 123456. X
Please select one to proceed.

☐  **Motor**
9AAC129089
Status: Available

☐  **Motor**
9AAC172478
Status: Registered

☒  **Direct Current Drive**
9AAC124402
Status: Available

Discard Proceed

6. If the serial number is valid, the message "Serial number validated" and asset information appear. Click **Next**.

ABB Asset registration Logged in as: End User

Asset registration

Asset registration

☒ Single assets
Register one asset at a time

☐ Bulk assets
Register multiple assets for single site and location

Validate asset serial number

Asset serial number

123456

Serial Number Validated

Validate

Asset information

Product serial number	Asset type	Product category
	Motor	M3BP90-B
CID	Type code	
	M3BP 90SLB 4	

Next

All rights reserved 2026

If the number is not valid, the message "Serial number not found" appears.

7. Enable
- Customer organization. Select the organization and click **Next**.

170 Other functions

The screenshot shows the 'Asset registration' page in the ABB system. The user is logged in. The page title is 'Asset registration'. Under 'Registering for:', the 'Customer organization' radio button is selected. Below it is a search bar for organizations with a placeholder 'Please enter at least 3 characters to search'. At the bottom right are 'Previous' and 'Next' buttons. The footer says 'All rights reserved 2026'.

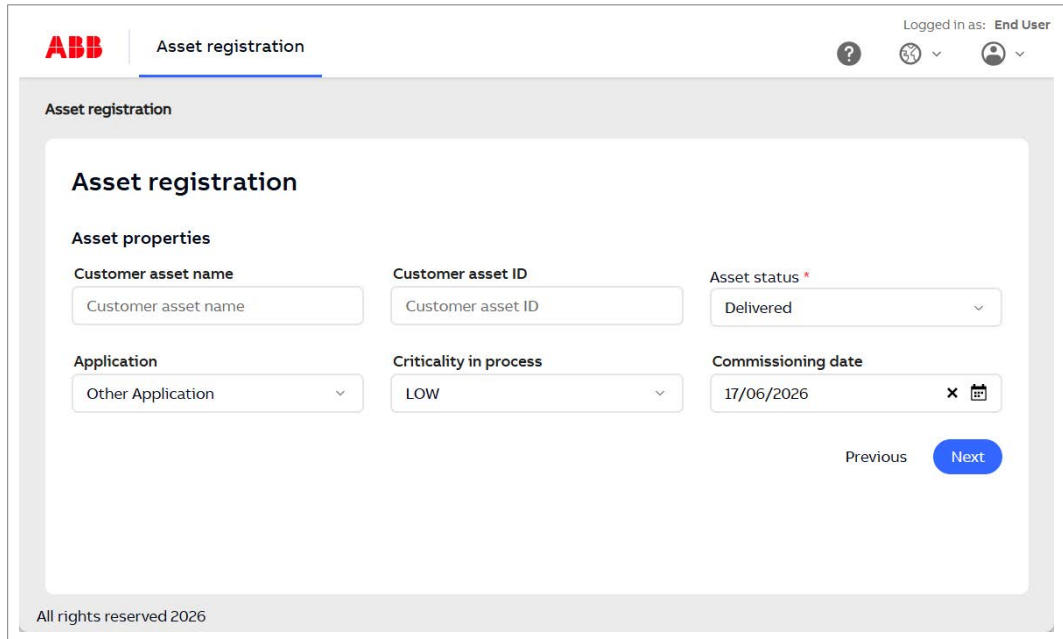
- ServIS site ID. Enter a valid ID and click **Validate**. Then click **Next**.

The screenshot shows the 'Asset registration' page. The 'ServIS site ID' radio button is now selected. Below it is a text field containing '123' and a 'Validate' button. At the bottom right are 'Previous' and 'Next' buttons. The footer says 'All rights reserved 2026'.

8. In Asset location, select a site and a location. Click **Next**.

The screenshot shows the 'Asset location' step of the 'Asset registration' process. It has two main sections: 'Search sites' on the left and 'Search location' on the right. The 'Search sites' section shows a list of sites with details like 'Country code: DE', 'City: Heiligengrabe', and 'Address: Wittstocker Chaussee 1'. The 'Search location' section shows a list of locations, each with a 'Physical' label. At the bottom right are 'Previous' and 'Next' buttons.

9. In Asset properties, enter the asset details. Click **Next**.



The screenshot shows the ABB Asset registration interface. At the top, there is a header with the ABB logo, the title "Asset registration", and a user status "Logged in as: End User". Below the header, the main content area is titled "Asset registration" and contains a form with the following fields:

- Asset properties**
 - Customer asset name**: A text input field with the placeholder "Customer asset name".
 - Customer asset ID**: A text input field with the placeholder "Customer asset ID".
 - Asset status**: A dropdown menu with the selected value "Delivered".
- Application**: A dropdown menu with the selected value "Other Application".
- Criticality in process**: A dropdown menu with the selected value "LOW".
- Commissioning date**: A date picker field showing "17/06/2026".

At the bottom right of the form, there are two buttons: "Previous" and "Next". The "Next" button is highlighted in blue. At the bottom left of the page, there is a footer that reads "All rights reserved 2026".

10. Confirm the details in the Asset registration summary. Click **Register**.

ABB Asset registration Logged in as: End User

Asset registration summary

Organization information

Organization name	GUID	Address	City	Postal code	Country
Servis 400000	40000000000000000000000000000000	Heiligengrabe	Heiligengrabe	16909	Germany

Location information

Site	Location
Name Servis 400000 TSL, 400000 Heiligengrabe Country DE City Heiligengrabe Postal code 16909 ServIS site ID 40000000000000000000000000000000	Name ABB Schalthaus 4 Type Physical

Asset information

Product serial number	Asset type	Product category	CID	Type code
400000	Motor	M3BP90-B	40000000000000000000000000000000	M3BP 90SLB 4

Asset properties

Customer asset name	Customer asset ID	Application	Criticality in process	Asset status	Commissioning date
Motor with SNr.	--	Solar Tracker	MED	Delivered	2026-06-10

Previous [Register](#)

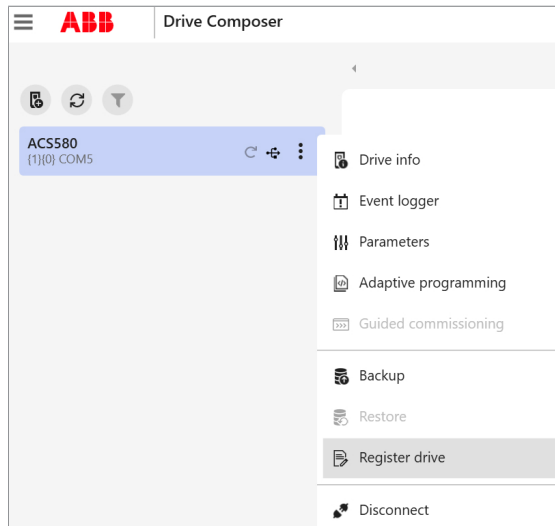
All rights reserved 2026

The registration successful message appears. You will receive an email to the registered email address.

■ Register bulk assets

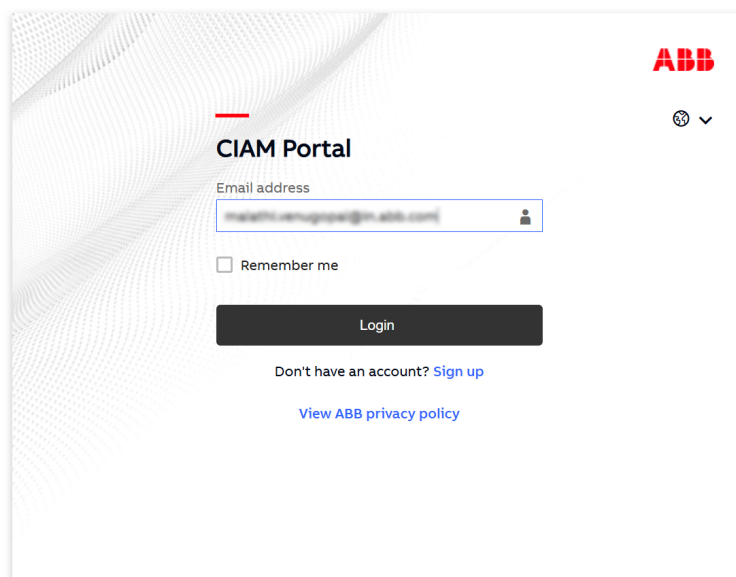
To register multiple assets for a single site and location,

1. From the drive context menu, select **Register drive**.

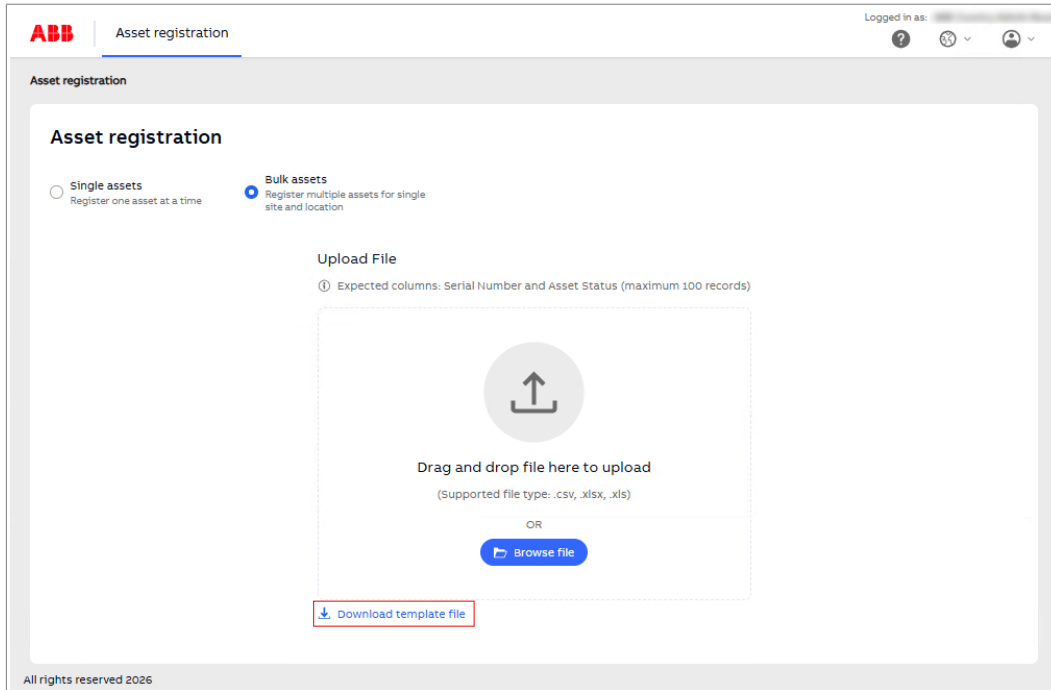


The Register drive window appears and takes you to the CIAM portal.

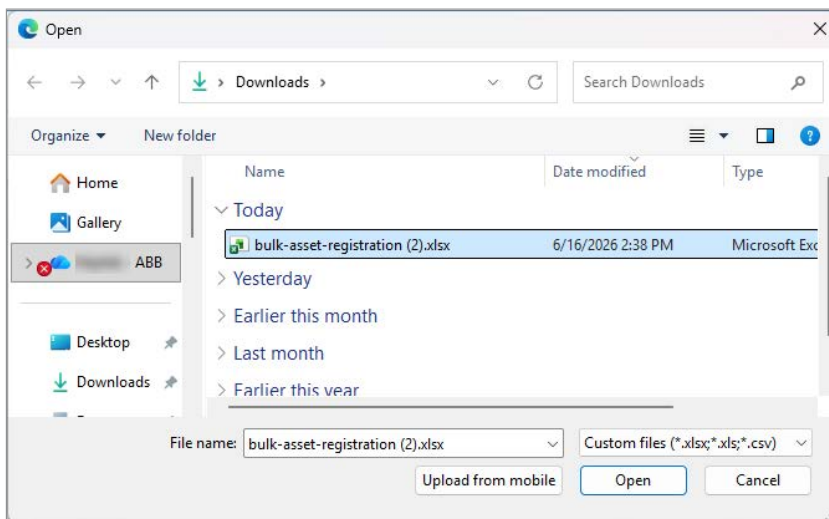
2. Log in to the CIAM portal using your ABB account. Obey the instructions in the wizard.



3. In the Asset registration page, select **Bulk assets**.



4. Click **Download template file**. Enter the asset details in the template and save the file to your PC.
You can have your own file in these formats: **.csv**, **.xlsx**, **.xls**. Make sure the file has columns for serial number and asset status.
5. Click **Browse file** and open the file (e.g., **.xlsx**) to upload.



6. In the Bulk asset registration, confirm the asset details from the imported file. Click **Next**.

Asset registration

Bulk asset registration

Search

SERIAL NUMBER	CID	ASSET STATUS	APPLICATION	CRITICALITY	ASSET TYPE	TYPE CODE	
123456		Running	< Oth >	LOW	Motor		
123457		< Und >	< Oth >	MED	--	--	
123458		Recycled	< Proc >	HIGH	--	--	

1-3 of 3 items per page

 Any rows with missing or incorrect field values will be ignored from registration.

Previous

You can use the  icon to delete an asset, or mouse hover the  icon to view the error message.

7. Select the options to register for: Customer organization or ServIS site ID. Click **Next**.

ABB Asset registration

Logged in as:

Asset registration

Registering for:

☒ Customer organization
 Only customer organizations are available for selection

☐ ServIS site ID

Organization

Please enter at least 3 characters to search

Previous

All rights reserved 2026

8. In asset location, select the Site and Location. Click **Next**.

Asset registration

Asset location

Select from existing sites & locations

☒

Country code: DE
City: Heiligengrabe
Address: Wittstocker Chaussee 1
Customer guid:
Customer name:

☐

Country code: DE
City: Heiligengrabe
Address: Wittstocker Chaussee 1
Customer guid:
Customer name:

Site :

☐

Physical

☐

Physical

☒

Physical

☐

Physical

Previous

Next

9. In the Asset registration summary, confirm the details. Click **Register**.

Asset registration summary

Organization information

Organization name	GUID	Address	City	Postal code	Country
			Heiligengrabe	16909	Germany

Location information

Site

Name

Country

City

Postal code

ServIS site ID

Location

Name

Type

Asset information (1 Assets) (2 Invalid records)

ASSET STATUS	APPLICATION	CRITICALITY	ASSET TYPE	TYPE CODE	CUSTOMER ASSET NAME	CUSTOMER ASSET ID	COMMISSIONING DATE	REGISTRATION STATUS
running	Other Applic...	LOW	Motor	M2GP 250MA ...	--	--	--	Pending

Previous

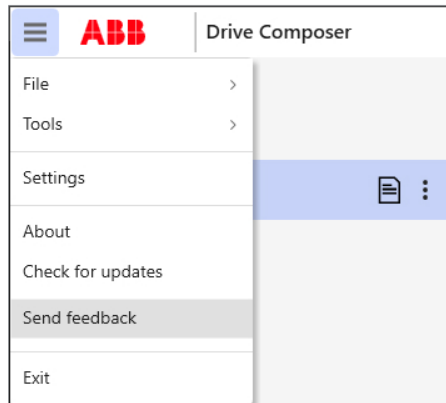
Register

The registration successful message appears. You will receive an email to the registered email address.

Send feedback

In Drive Composer 3, you can send feedback to the support team. You can report an issue or situation with the connected drive. The email opens in the default mailto client configured in Windows (e.g., Outlook).

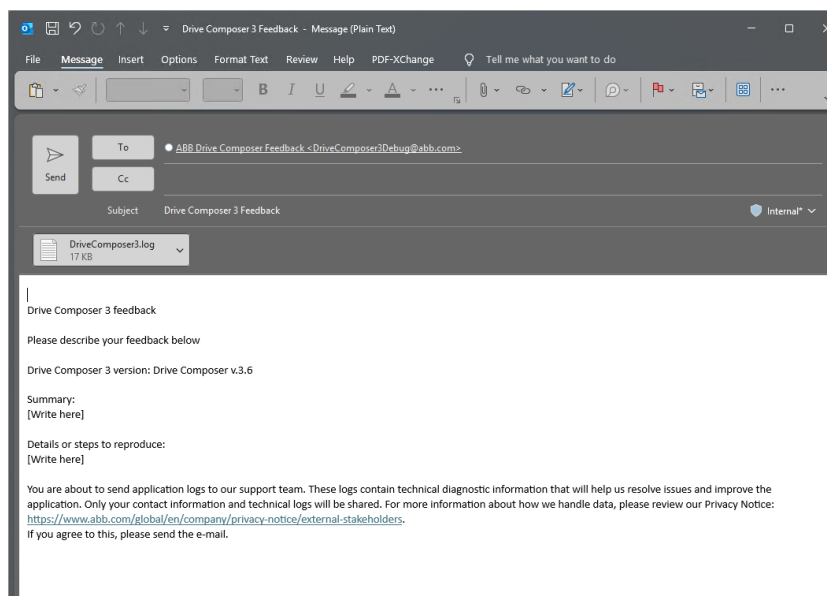
1. In the ≡ (Hamburger) menu, click **Send feedback**.



2. Select an app to open the email (.eml file).

The email opens with the recipient's name **DriveComposer3Debug@abb.com**. Drive Composer 3 automatically collects the log (**DriveComposer3.log**) and attaches it to the email.

The log contains the processor information.



3. The email is a default template that contains Drive Composer 3 version details. You can describe the feedback and add a summary or steps to reproduce the issue. Click **Send**.

Note: You can also write your own email without the template. The attachment is limited to 25 MB.



Further information

Product and service inquiries

Address any inquiries about the product to your local ABB representative, quoting the type designation and serial number of the unit in question. A listing of ABB sales, support and service contacts can be found by navigating to new.abb.com/contact-centers.

Product training

For information on ABB product training, navigate to new.abb.com/service/training.

Providing feedback on ABB manuals

Your comments on our manuals are welcome. Navigate to forms.abb.com/form-26567.

Document library on the Internet

You can find manuals and other product documents in PDF format on the Internet at www.abb.com/drives/documents.



www.abb.com/drives



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