SIEMENS

Customer Manual
Function Point Manager

www.siemens.com/siprotec-function-point-manager

Function Point Manager: **Customer Manual**

Edition 2.0, November 2022

Content

1 Introduction ... 4
1.1 Introduction SIPROTEC & SICAM Function Point Manager ... 4
1.2 Customer Support ... 5
2 Registration and Ordering ... 6
2.1 User Registration ... 6
2.2 Create Budget Account ... 11
2.3 Order Function Points ... 14
2.4 User Login and Logout ... 15
3 SIPROTEC 5 License Files ... 18
3.1 Introduction ... 18
3.2 Generate License Files ... 19
3.3 Upload License Files into the device ... 22
3.4 Manage License Files ... 29
4 SICAM License Files ... 31
4.1 Introduction ... 31
4.2 Generate License Files ... 31
4.3 Upload License Files into the device ... 35
4.4 Manage License Files ... 38
5 Budget Accounts ... 40
5.1 Account Management ... 40
5.2 Account Transactions ... 44
5.3 Invoicing ... 45
6 User Management ... 46
6.1 Introduction ... 46
6.2 Administration ... 47
7 Settings and other Functions ... 51
7.1 Profile Settings ... 51
7.2 Table Functions ... 52
7.3 Feedback ... 53
8 Frequently Asked Questions ... 54

8.1 Login, User Registration, Siemens ID 54
8.2 Ordering, Invoicing 54
8.3 Budget Account, User Management 55
8.4 License Files 56

1 Introduction

1.1 Introduction SIPROTEC & SICAM Function Point Manager

The SIPROTEC & SICAM Function Point Manager, short “Function Point Manager”, is a cloud-based service for SIPROTEC 5 and SICAM customers to generate license files for the SIPROTEC 5 and SICAM device families. Take advantage of the flexibility of Function Point budgets to easily customize and expand your device's functionality in seconds.

1.1.1 Create Budget Account and order Function Points

Function Point budgets are ordered outside of this service from Siemens Regional Sales or Siemens SiePortal (formerly Industry Mall) and automatically credited to a Function Point Manager customer account ("budget account"). The prerequisite is the budget account, which can be created within one minute on siprotec-function-point-manager.siemens.com or sicam-function-point-manager.siemens.com. It is irrelevant which internet address is called. Both addresses refer to the SIPROTEC & SICAM Function Point Manager, with which both SIPROTEC and SICAM function point budgets can be used.

The credited function points are assigned to the budget account and can be used to create SIPROTEC 5, SIPROTEC 5 Compact and SICAM license files. Due to the temporal separation of the order of function points and the possibility to generate license files ad hoc, you gain a time advantage and maximum flexibility in engineering.

1.1.2 Manage Function Points and create License files

Based on the available function points in the budget account, it is possible to generate license files for SIPROTEC 5, SIPROTEC 5 Compact and SICAM devices by entering the device serial number in seconds. The generated license file can be downloaded directly. The SIPROTEC license files can be loaded onto the device using DIGSI 5 or SIPROTEC Tools. Use SICAM WEB to install SICAM license files in your SICAM device.

1.1.3 License files

SIPROTEC 5 license files or device attribute files, extension DAF, contain the number of function points for a specific SIPROTEC 5 device. The functional score of the device is used to define the scope of device functionality. An increase of the function points means an expansion of the available device functionality.

SICAM license files, extension SICLIC, contain one or more license types that represent different device functions. The license types are SICAM device type dependent and can be instantiated single or multiple times, depending on the license type.

1.1.4 Account Overview

The SIPROTEC & SICAM Function Point Manager account transactions and account management views provide an overview of all budget accounts, their users, account balances and all function point credits and debits.

1.1.5 Further Information

Further information such as training videos, announcements for webinars, etc. can be found at www.siemens.com/siprotec-function-point-manager.

This Function Point Manager manual and further product information can be found in the SiePortal under support.industry.siemens.com/cs/ww/en/ps/28938 and support.industry.siemens.com/cs/ww/en/ps/29470.

1.2 Customer Support

If you have any questions about the SIPROTEC & SICAM Function Point Manager, please contact your Siemens sales partner.

Our Customer Support Center supports a 24-hour service.

Siemens AG
Smart Infrastructure – Electrification & Automation
Customer Support Center
Tel.: +49 911 2155 4466
E-Mail: energy.automation@siemens.com

2 Registration and Ordering

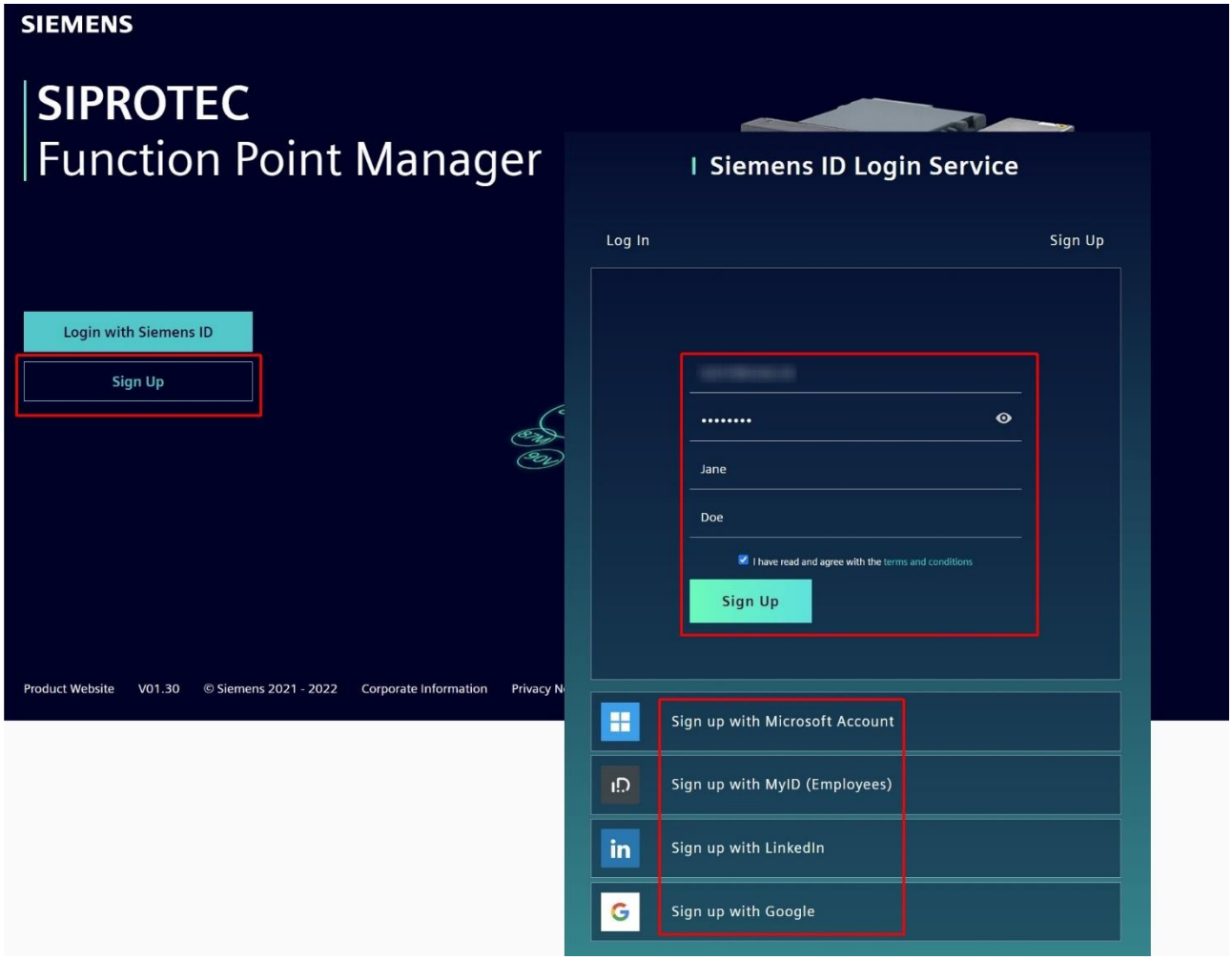
2.1 User Registration

Function Point Manager user registration is a prerequisite for using the service. This is a one-time operation. Once registered, always click on **Login with Siemens ID** to access the Function Point Manager. Registration and Function Point Manager login is carried out with the central Siemens login service "Siemens ID".

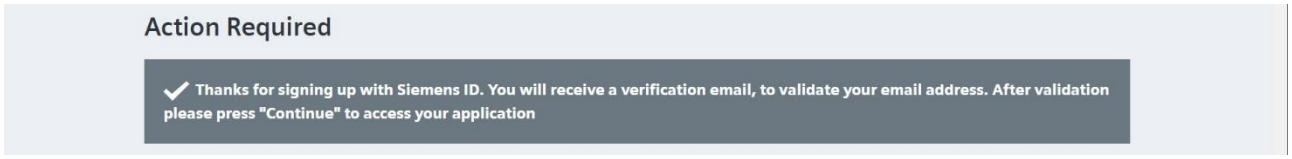
Note: Even if you already have a Siemens ID, user registration with the Function Point Manager is mandatory required for your identity to be associated with this application. This applies to both customers and Siemens employees.

To register, open the website siprotec-function-point-manager.siemens.com or sicam-function-point-manager.siemens.com. It does not matter which internet address you access. Both addresses refer to the SIPROTEC & SICAM Function Point Manager. Click **Sign Up** and enter your **E-Mail address**, a **password**, **first** and **last name** on the next page. Review the **terms and conditions** and click **Sign Up** if you agree to the terms.

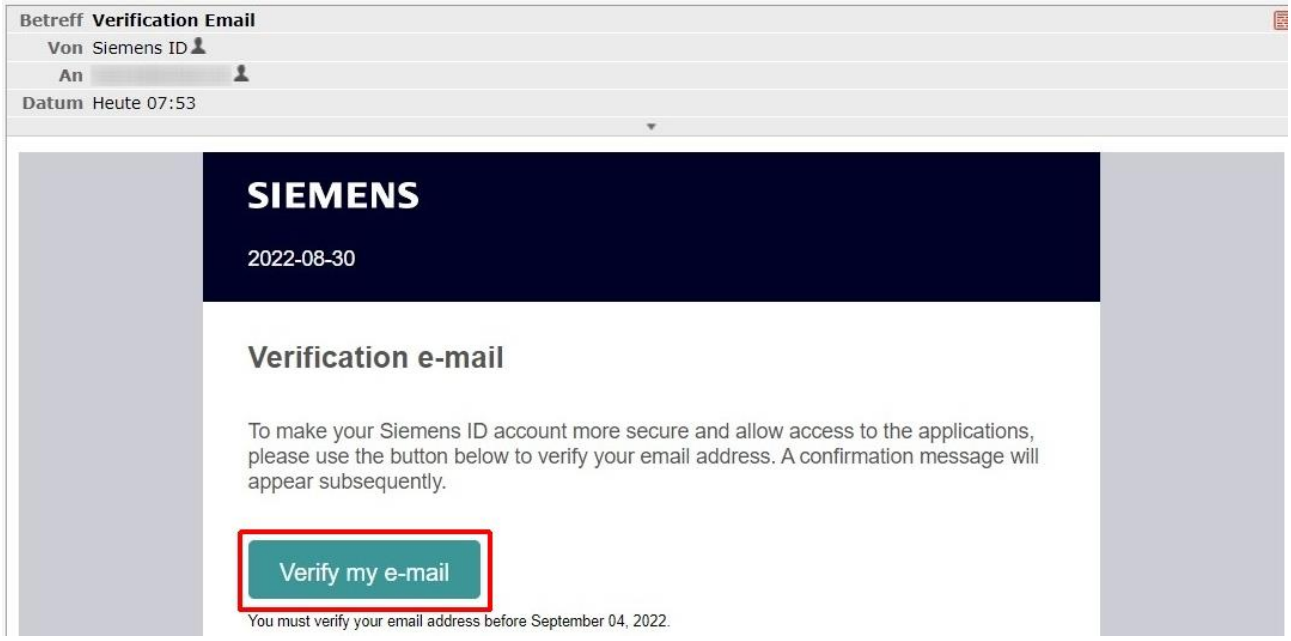
Alternatively, you can also register with an existing Microsoft, LinkedIn or Google account. As a Siemens employee, you need to select MyID registration. In these cases, click on a button **Sign up with...**:



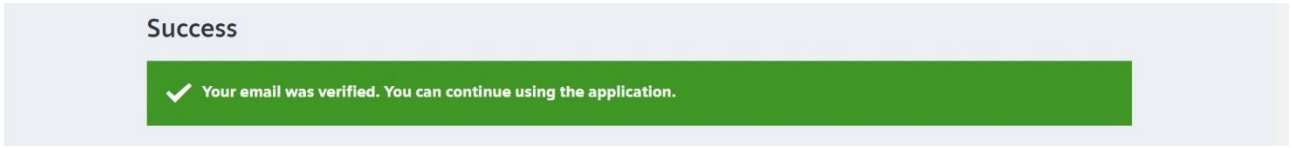
The **Action Required** window opens. To verify your E-Mail address, you will receive an verification E-Mail to confirm your address. Please leave this browser window open. After verification, continue here.



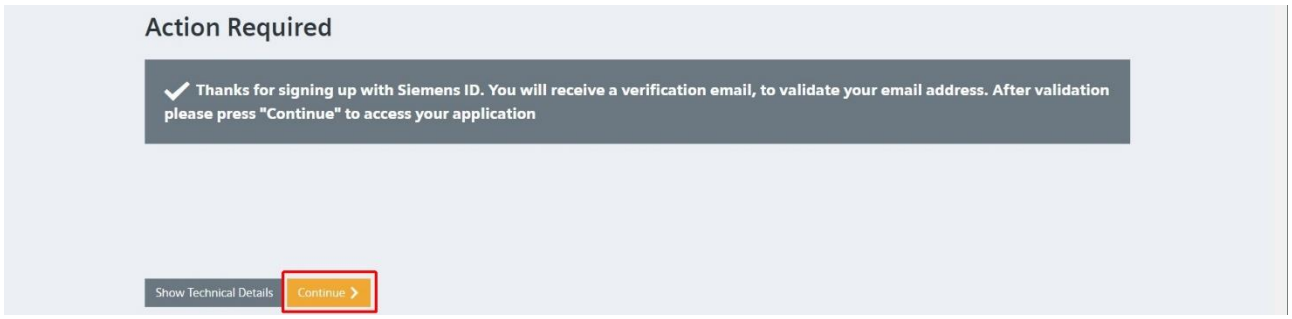
Open your E-Mail program and check the reception of the Siemens ID verification E-Mail. Click **Verify my e-mail**:



Another browser window opens with the **Success** indication that the verification was successful.

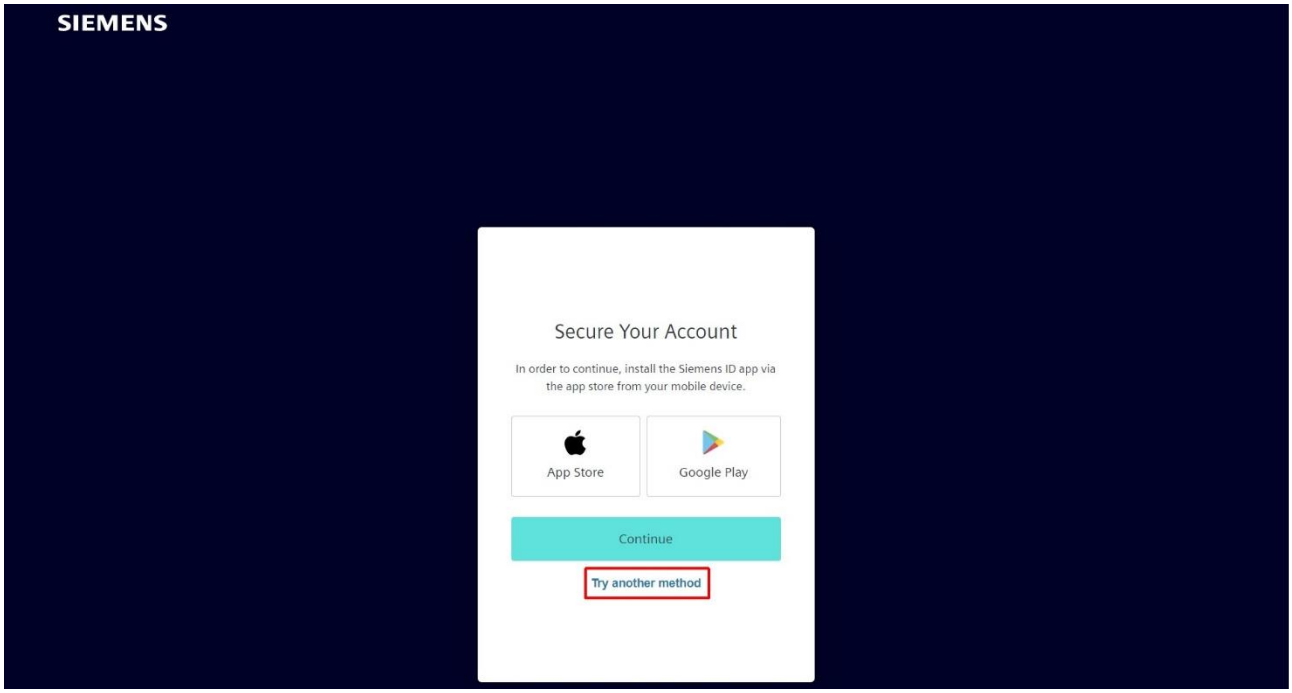


In the **Action Required** window**,** click **Continue >**:

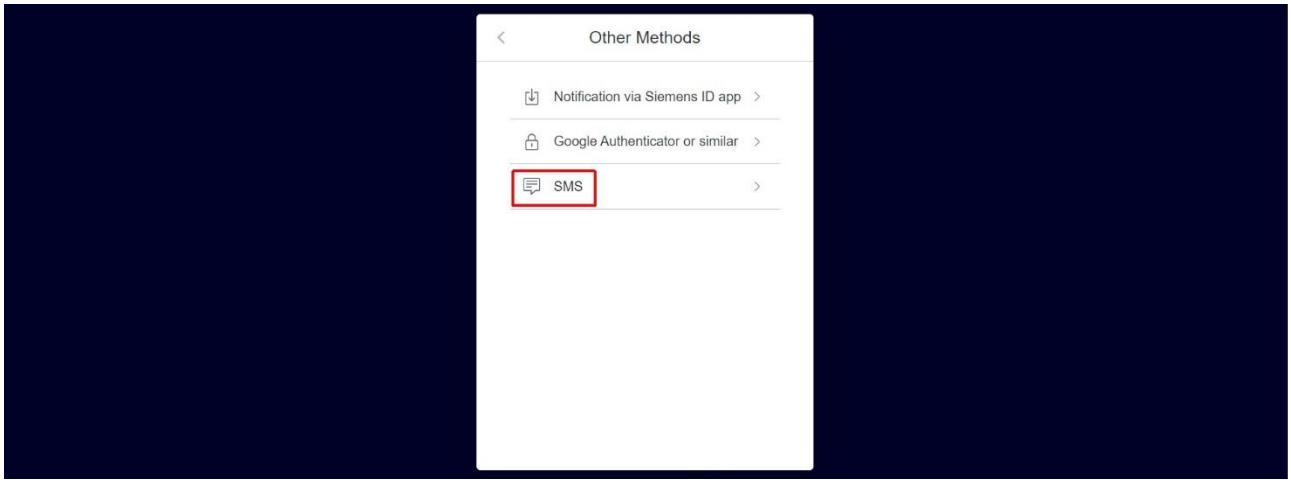


Access to the Function Point Manager always requires two authentication methods (multi-factor authentication): E-Mail address/password and a code that is sent to your mobile phone and then entered in the web browser when logging in.

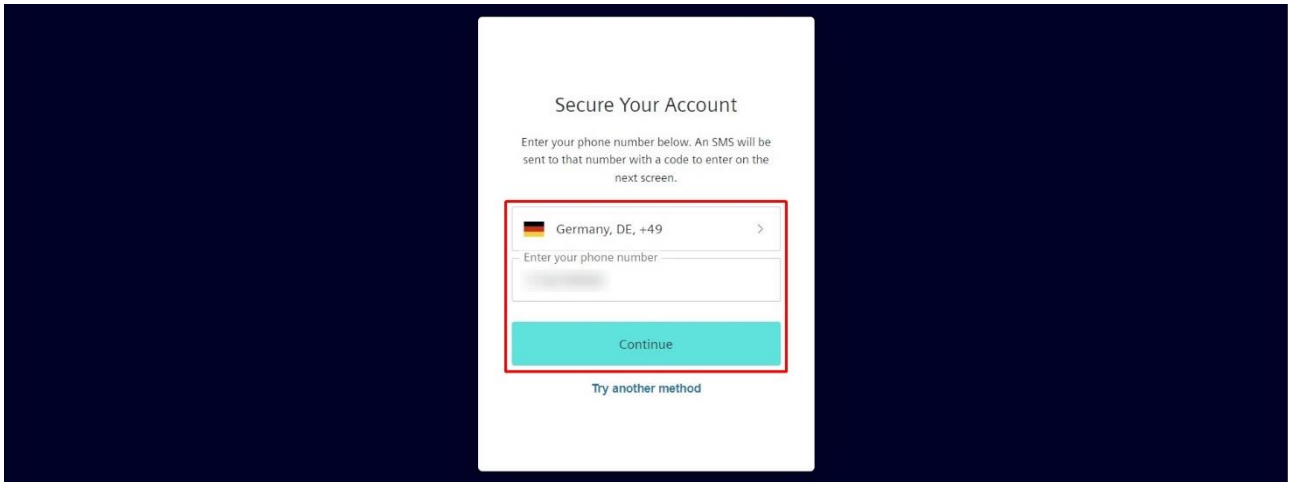
You can choose between these options: Sending an authorization code as a text message (SMS) to your mobile phone, using the Siemens ID app or the Google Authenticator app on your mobile phone. The following describes how to set up the SMS procedure. In the **Secure Your Account** window**,** click **Try another method**:



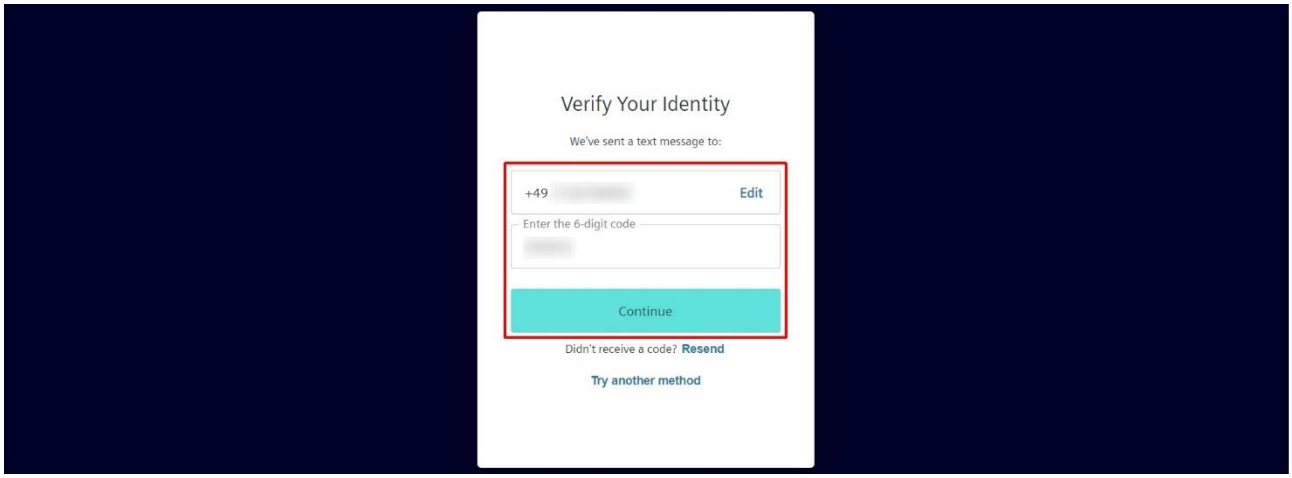
In the **Other Methods** window**,** click **SMS**:



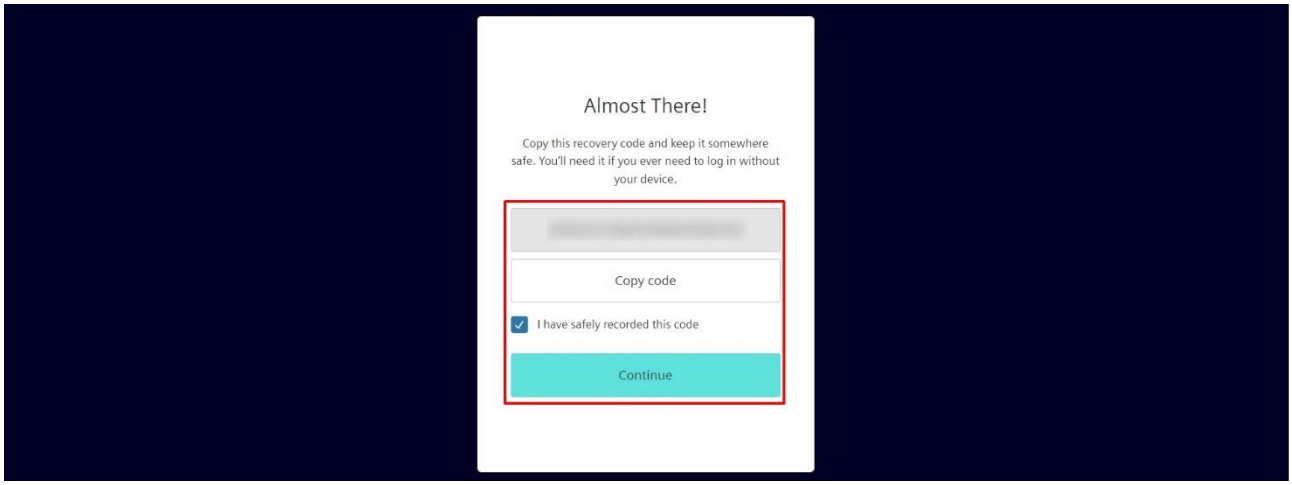
Under **Secure Your Account**, first select your **country code** in which your mobile phone is registered. Then enter your **phone number** without country code and special characters and click **Continue**:



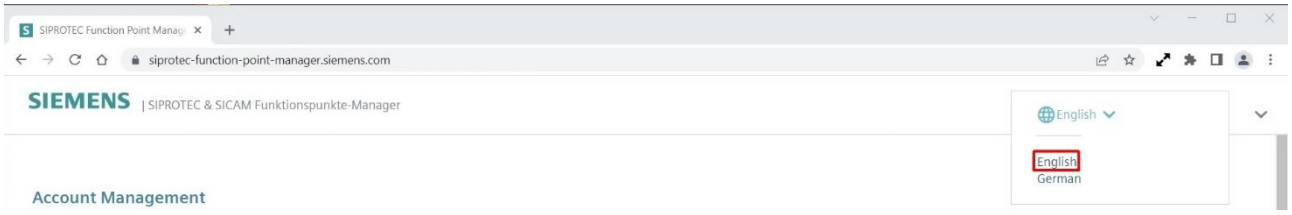
You will now receive from Siemens ID within 10...120 seconds a SMS on your mobile phone containing a code. Enter the **6-digit code** in the **Verify Your Identity** window and click **Continue**:



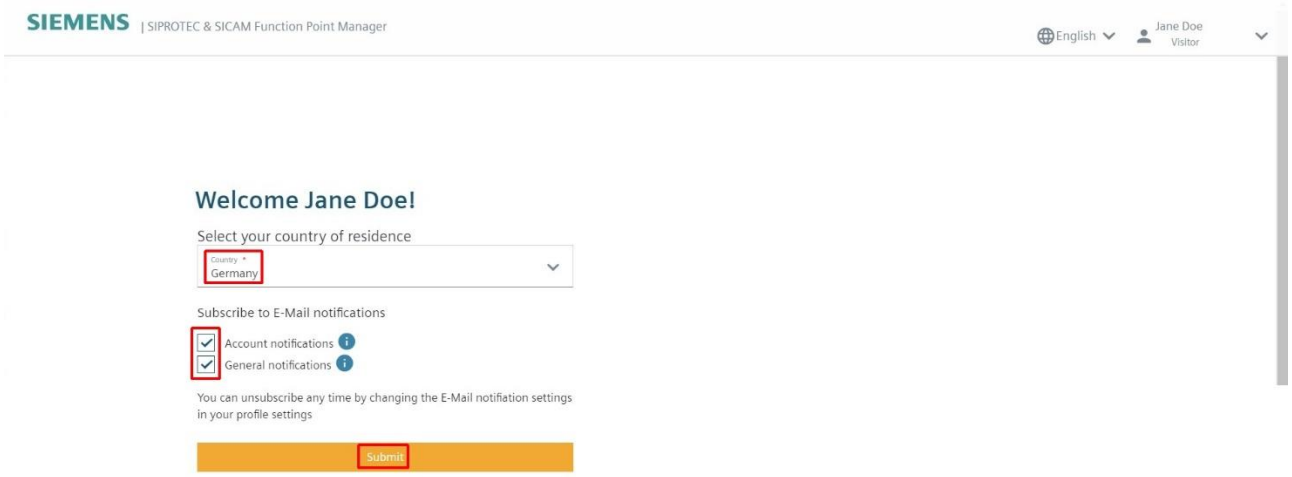
In order to be able to restore access to your user account in the event of an error, you need the recovery code shown in the **Almost There!** dialog. Save the code in a safe place. By clicking **Copy code**, the code is copied to the clipboard and can be saved, for example, in a password manager such as KeePass (keepass.info). Then click on **Continue**:



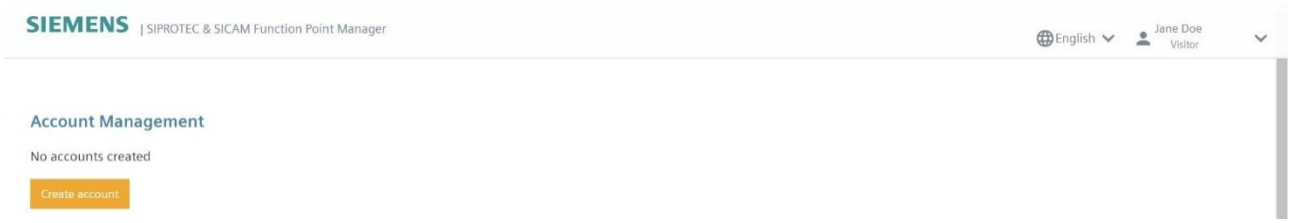
The account creation of the Function Point Manager now opens. If necessary, switch to English as the display language by clicking the icon 🌐 and **English**:



Select your current **country of residence**. You can also optionally **subscribe to E-Mail notifications**. If you want to be informed about the activation of a previously created budget account or other account activities, activate the notification type **Account notifications**. To receive general information, such as new Function Point Manager functionality or information about planned shutdowns due to system maintenance, activate **General notifications**. You can unsubscribe from E-Mail notifications at any time in your profile settings. Next click **Submit**:



Subsequently, the **Account Management** page is displayed, in which no budget account has been created yet:



This completes the user registration. The next chapter describes how to set up a budget account, which is required to order function point budgets.

If you want to create your own budget account, proceed to the next chapter. Otherwise, click **Logout**:

Note: Since user registration is a one-time process, you will log in in the future via **Login with Siemens ID**. Further information on the user registration and Siemens ID can be found in the chapter 2.4.

Note: If you have been informed by another user of the Function Point Manager that he/she will add you to an existing budget account, you do not need to create your own budget account. In this case, inform the account administrator that you have registered with the Function Point Manager so that he/she can add you to their budget account. Without your user registration, the administrator cannot add you to their account!

2.2 Create Budget Account

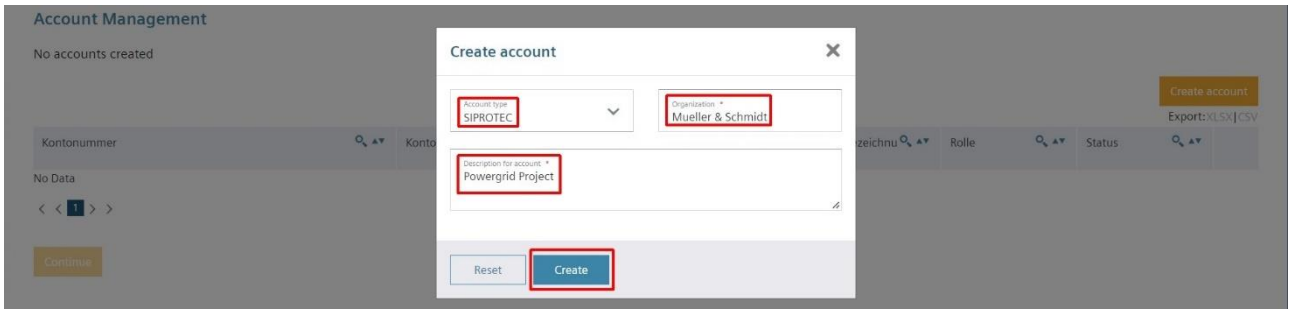
2.2.1 First account

A budget account is the prerequisite for ordering function points. After registration, click **Create Account** on the **Account Management** page:

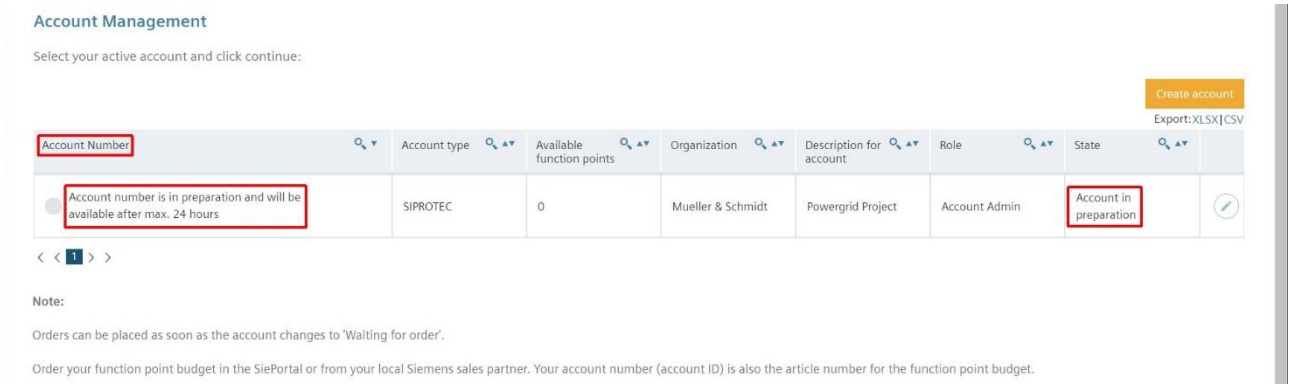
For the initial setup, you first opt for the **account type** “SIPROTEC” or “SICAM”. This distinction is important for ordering and using the Function Points budget. The next chapter 2.3 explains how to order function points for the different account types.

With a SIPROTEC Budget account you generate only SIPROTEC license files and with a SICAM Budget account only SICAM license files. Function Points generally cannot be transferred between different accounts. The account type cannot be changed after creating a budget account!

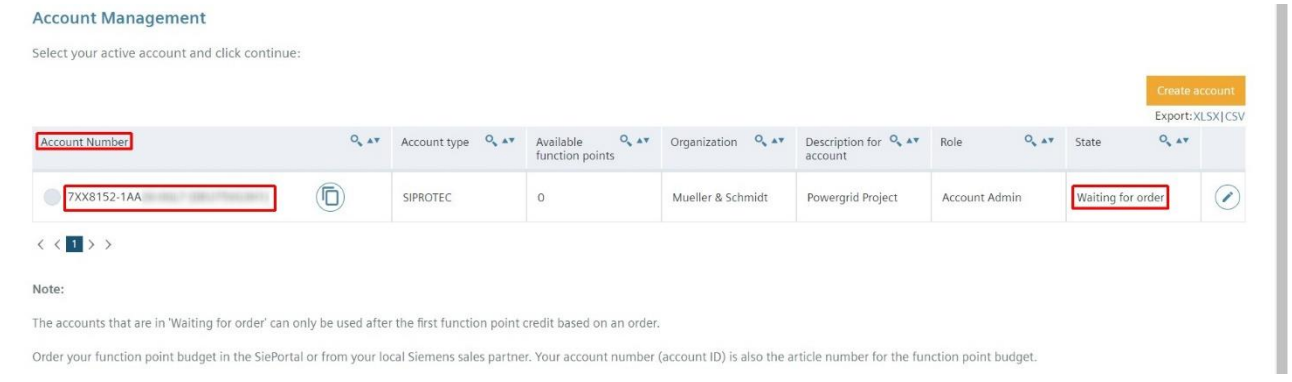
In the **Create Account** dialog, enter the **Account type** „SIPROTEC“ or „SICAM“ and the name of your **organization**. In **Description for account**, write a descriptive name for your budget account. This field is useful to easily distinguish the different accounts you are assigned to. The organization and description text can be changed any time by an account administrator. Click **Create** to create the budget account now:



The new budget account then appears in the **Account Management** table with the status "Account in preparation":



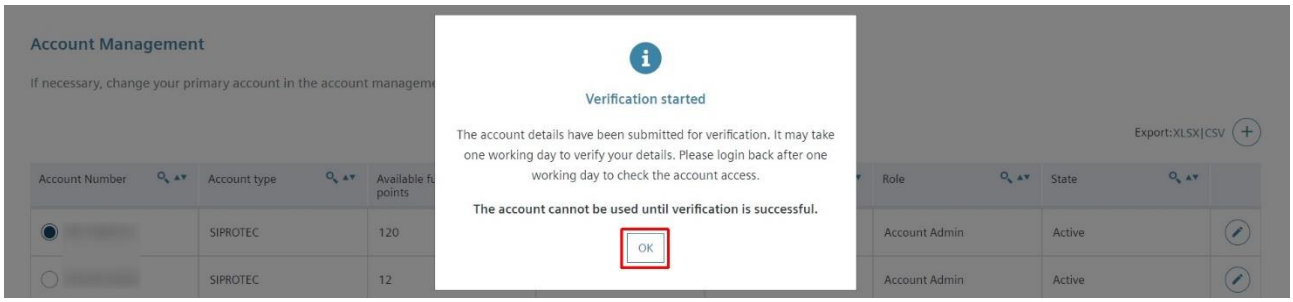
After a maximum of 24 hours, the budget **Account Number** is displayed and the status of the account changes to "Waiting for order". If you have subscribed to E-Mail account notifications, you will be notified of your account's readiness by E-Mail:



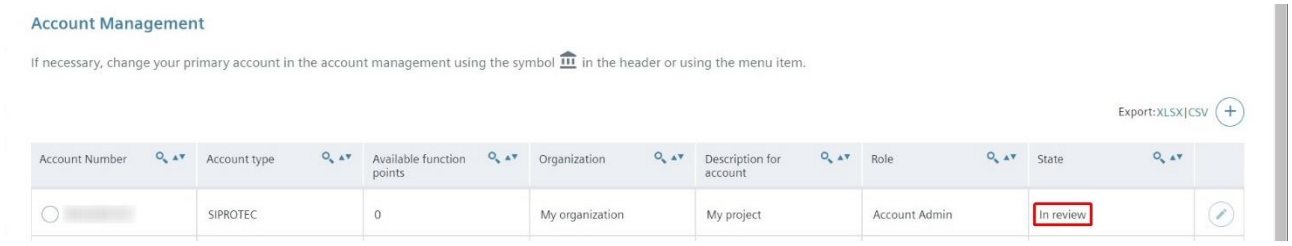
Note the budget account number (Account ID) **7XX8152-1AAxx-xxxx** (SIPROTEC Function Points) or **6MF2752-1AAxx-xxxx** (SICAM Function Points). It is the number of your account and also the account-specific article number you need to order your Function Point budget. The ordering process is described in chapter 2.3.

Once you have ordered Function Points and they have been credited to your budget account, the **State** of the account changes to "Active". Click **Continue** to switch to **Account transactions**. The Function Point Manager can now be used without restriction and you can generate license files.

With the budget account creation and once a week, an automatic account verification takes place. Occasionally, the account may need to be verified by a Siemens administrator. In this case, a corresponding message appears and the account changes to the status "In review". The inspection takes place on the next working day. If it is positive, the account changes back to the previous state:



As long as the verification is carried out, the corresponding state “In review” is displayed. Do not place orders until the status changes to "Active" because no credits can be made:



2.2.2 Further accounts

It is often useful to have multiple accounts because, for example, you want to generate both SIPROTEC 5 and SICAM license files. Since SIPROTEC Function Points can only be used for SIPROTEC licenses and SICAM Function Points can only be used for SICAM licenses, you need at least two different budget accounts. Or you want to generate license files on a project-by-project basis and separate the function points credits and debits for accounting purposes. Since Function Point orders always refer to a specific budget account, separate invoices are created.

In chapter 5.1 (Account Management) you will find details on creating multiple accounts and working with multiple function point budgets.

2.3 Order Function Points

Function point budgets can be ordered via the regional Siemens sales partner or via the Siemens SiePortal (formerly Industry Mall). For each order, the account-specific article number (Account ID) must be specified, which is displayed in the account management (chapter 2.2.1). This ensures that the ordered function points are automatically credited to the correct budget account.

Note: The budget account number for existing SIPROTEC accounts has been changed with release V2.00 of the Function Point Manager. The new account number is the number of your account and also the account-specific article number **7XX8152-1AAxx-xxxx** (for SIPROTEC Function Points) or **6MF2752-1AAxx-xxxx** (for SICAM Function Points). The old account number (in brackets) can still be used for a limited transitional period with the fix article number **7XX8152-1AA00**. Siemens recommends using only the new account numbers, as the procedure is less complicated and less error-prone. The old account number will no longer be supported during 2023. Budget accounts created after the introduction of the Function Point Manager V2.00 only have the new account number.

2.3.1 Order from the regional sales partner

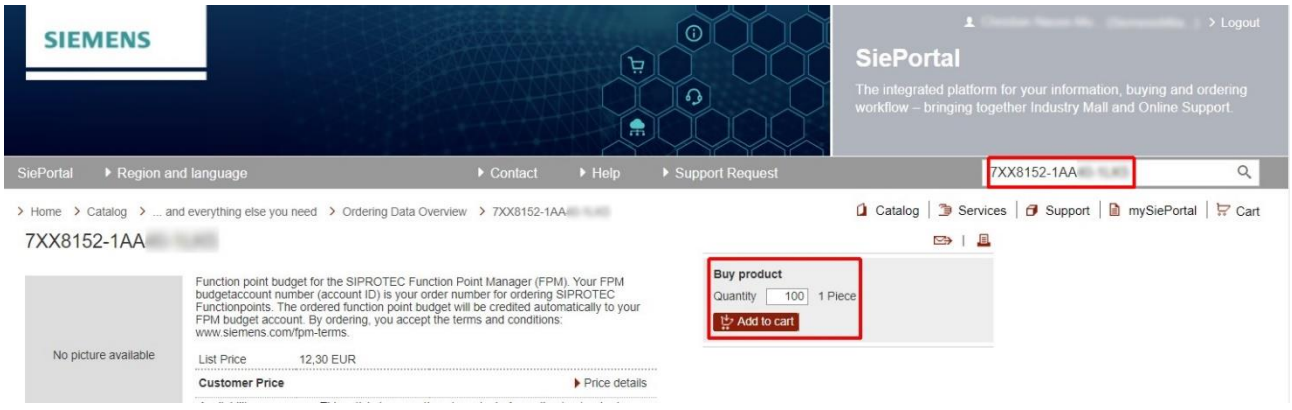
When ordering, state your account-specific article number **7XX8152-1AAxx-xxxx** for SIPROTEC 5 Function Points or **6MF2752-1AAxx-xxxx** for SICAM Function Points and the required number of function points.

If you want to use the old Account ID of legacy accounts to order SIPROTEC Function Points, state the fix article number **7XX8152-1AA00** together with the old Account ID to your sales partner. Siemens recommends no longer using this method, as it will be discontinued during 2023.

The Function Points will usually be credited to your budget account within one to two business days of receipt of the order.

2.3.2 Ordering via SiePortal

Log in to the SiePortal under sieportal.siemens.com with your customer account and enter your account-specific article number **7XX8152-1AAxx-xxxx** for SIPROTEC 5 function points or **6MF2752-1AAxx-xxxx** for SICAM function points in the search mask. Then enter the desired quantity in the **Buy product** input field, i.e. the required number of Function Points. Click **Add to cart**:



Go to **Cart** to continue. Check the shopping cart. If everything is OK, proceed to **Proceed to order >**:

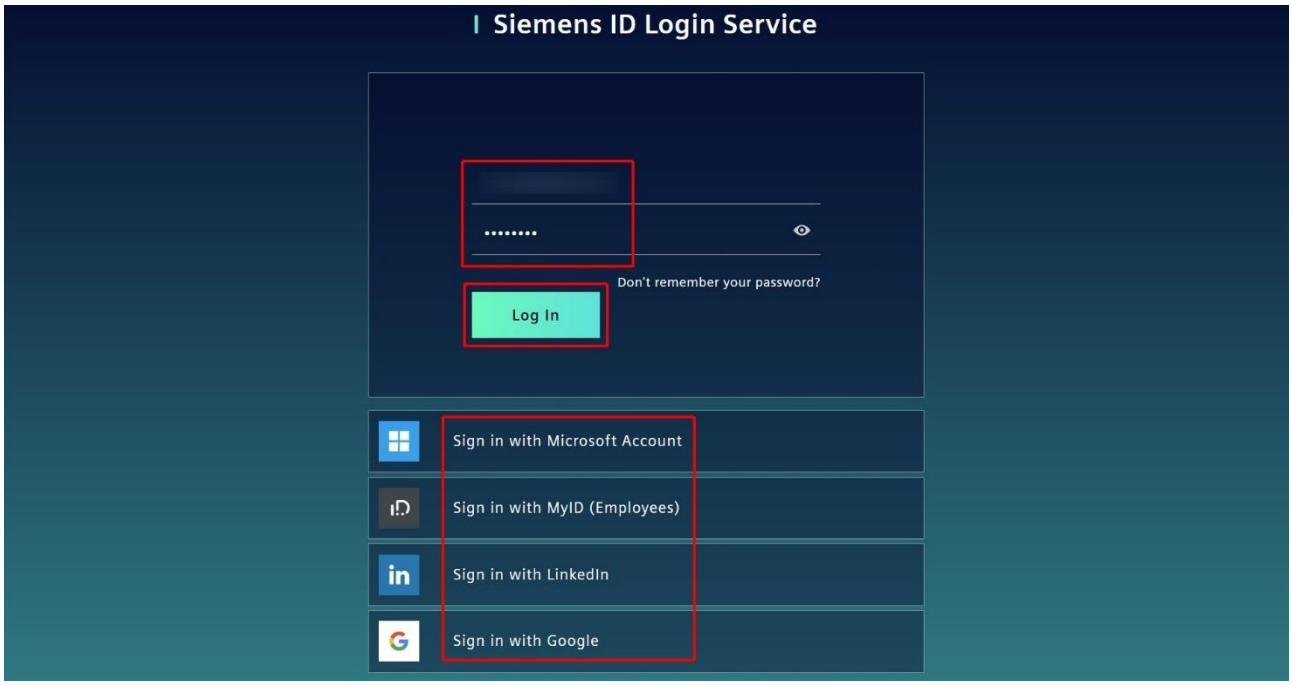
Check the other entries such as delivery address, end customer information, your order number, etc. Switch to the order overview and send the order if all information is correct. The Function Points are usually credited to your budget account within one to two business days.

2.4 User Login and Logout

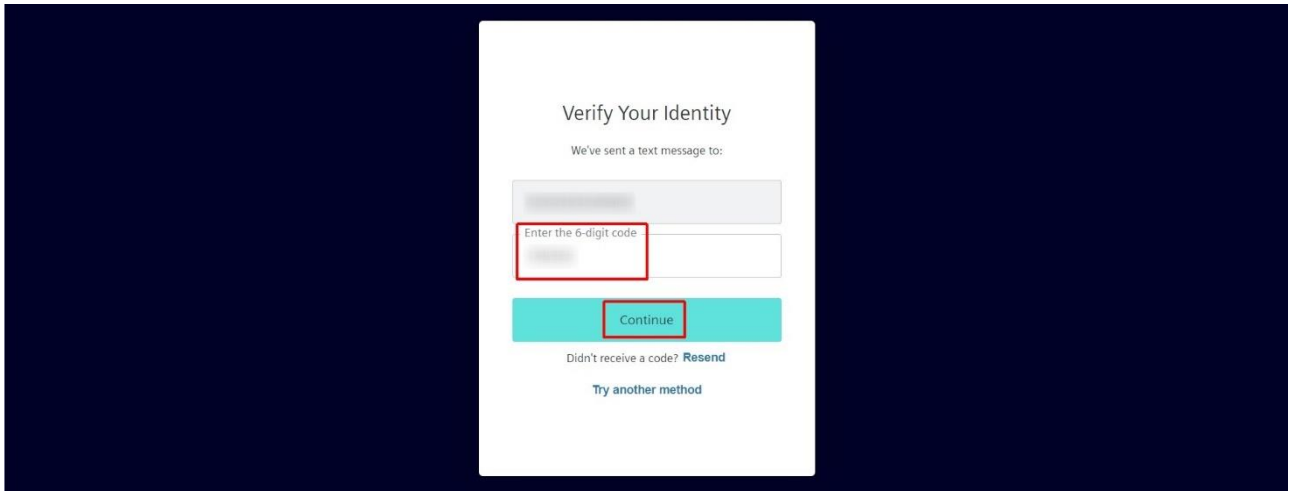
2.4.1 Login

To log in to the Function Point Manager, open the siprotec-function-point-manager.siemens.com or sicam-function-point-manager.siemens.com page in your web browser and click **Login with Siemens ID**. It does not matter which internet address you access. Both addresses refer to the SIPROTEC & SICAM Function point Manager, with which you can manage both SIPROTEC and SICAM function point budgets and generate license files for both device families. The prerequisite for access is your user registration (Chapter 2.1):

Enter your **E-Mail address** and **password** and click **Log in**. Alternatively, you can choose your different login procedure according to your user registration, in which you can use the corresponding **Sign in with...** button:



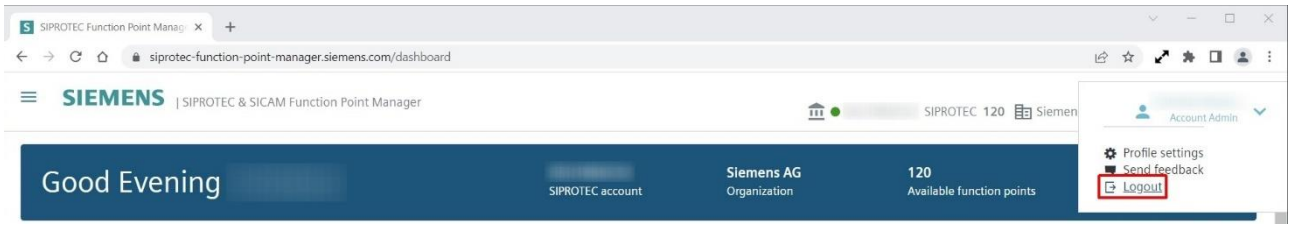
In the **Verify Your Identity** dialog, enter the **6-digit code** that you received via SMS on your mobile phone and click **Continue**:



After logging in, the **Account Transactions** page opens. If you don't already have an active account because you haven't ordered any function points yet, or you haven't been credited yet, the **Account Management** page opens instead.

2.4.2 Logout

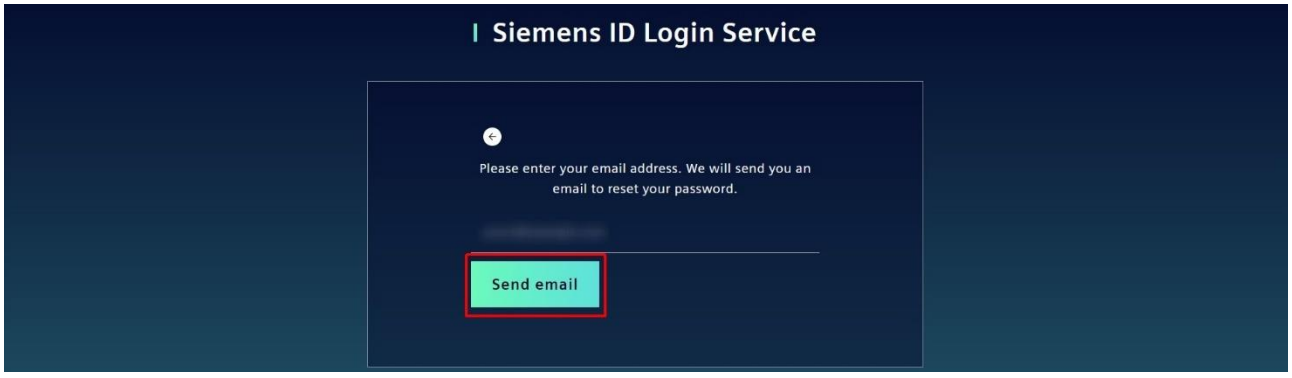
To log out of the Function Point Manager, click **Logout** in the header menu on the right:



2.4.3 Forgot Password

If you have forgotten the password for your user account, click **Don't remember your password?** after **Login with Siemens ID** on the **Siemens ID Login Service** page:

Enter your **E-Mail address** and click **Send email**. You will receive an E-Mail with a link to Siemens ID in order to be able to set up a new password for your user account:



2.4.4 Siemens ID

The Siemens ID portal can be accessed under uss.login.siemens.com. For access, you first only need your E-Mail address and password, but not your mobile phone as a second authentication factor. This makes it possible to set up a new multi-factor authentication if, for example, you have a new mobile phone or want to change the authentication method from SMS to Siemens ID app. To do this, have the recoverycode that you received during user registration ready. You can also change your name, email address and password in the portal.

Note: For more help with Siemens ID, check id.login.siemens.com.

3 SIPROTEC 5 License Files

3.1 Introduction

License files or device attribute files, extension DAF, contain the number of function points for a particular device. The function points of the device are used to define the scope of the device functionality. An increase in the number of function points means an extension of the available device functionality. In order to use the function points, the license file containing the function points must be loaded into the device. Use the Function Point Manager to create the required license files.

Determine the required number of function points with DIGSI 5, the application chapters in the device manual or the function point calculator. This is integrated in the SIPROTEC 5 configurator under siemens.com/config-siprotec5/en.

3.1.1 Function Point Classes

Function points are entered in the license file in the form of function point classes. Base + 200 is an example of a function point class. “Base” means that the basic functionality of the device is covered. 200 is the number of function points that is required to extend the functionality of the device. These function point classes are defined: Base + 10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, 400, 425, 450, 475, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300 and 1400.

Note: If you need more than 1400 function points, you can only select the function point type "classless" when generating the license file, since there is no larger function point class than Base + 1400 and the "Flat rate class" Base + 1400+ was discontinued with the release of SIPROTEC 5 firmware version V09.30.

3.1.2 Classless Function Points

In addition to function point classes, arbitrary function point values in the range 0 to 5000 are also supported (SIPROTEC 5 Compact: max. 500 function points). In this way, you can enter the exact number of function points in the license file and are no longer bound to function point classes.

Already when ordering a modular SIPROTEC 5 device, you can choose whether it should be delivered with a function point class or whether it should be delivered classless with zero function points. If you purchase a classless device with zero Function Points, you can use the Function Point Manager to quickly create the required license file as needed.

Notes: When generating license files, you can change the function point type from "class-bound" to "classless" and back again at any time. License files with classless function points are supported by any SIPROTEC 5 firmware version. For the offline configuration of a SIPROTEC 5 device with the function point type "classless" you need DIGSI 5 V09.20 or higher.

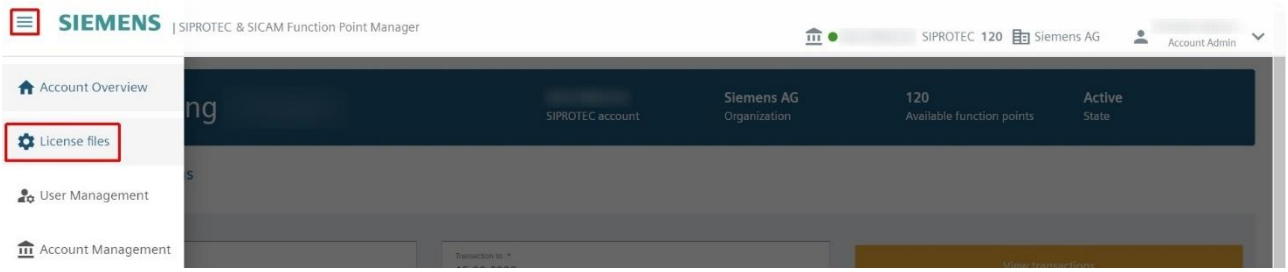
3.1.3 SIPROTEC 5 Device Productcode

The product code of a SIPROTEC 5 device contains an encoding for the function point class at position 20. The code A stands for Base, B for Base + 10, C for Base + 20, etc. Thus, with each function point class change, the product code of your device also changes.

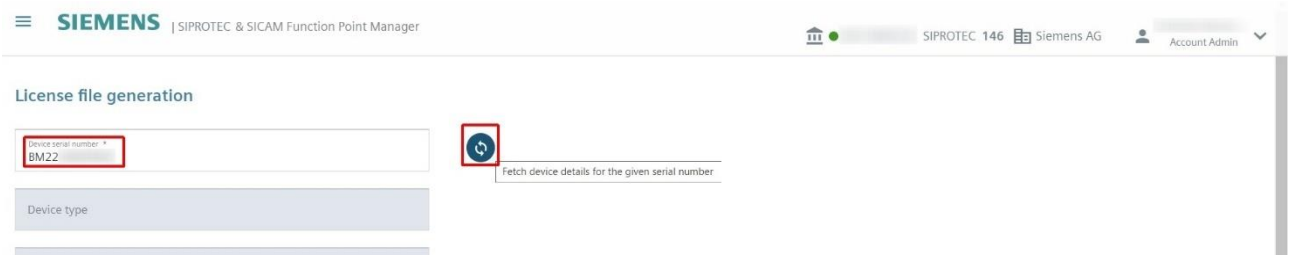
For the function point type "classless", the code is zero at position 20, regardless of the number of function points in the license file. This means that the product code of your device does not change when you generate license files with classless function points. So if you buy a "classless" device and if you still keep the function point type “classless”, the product code of your device is always independent of function point changes.

3.2 Generate License Files

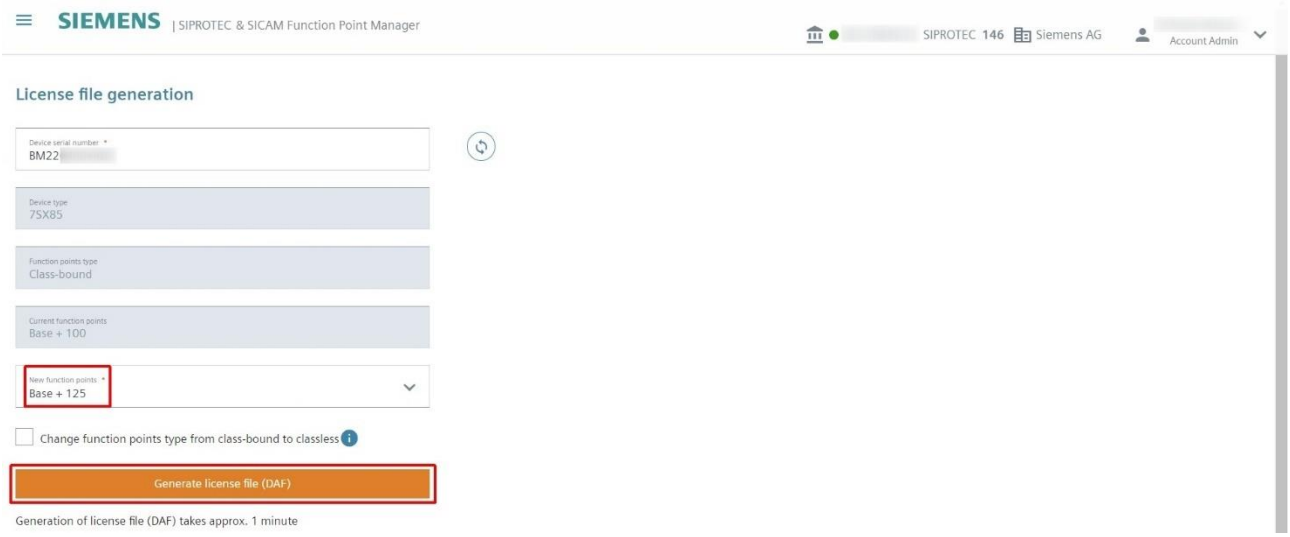
Once function points have been credited to your SIPROTEC budget account, the account will change to the "Active" status. Now you can generate license files for SIPROTEC 5 and SIPROTEC 5 Compact devices. Make sure that you have selected a SIPROTEC account and click on **License files** in the menu ☰:



Enter the **Device serial number** of the SIPROTEC 5 or SIPROTEC 5 Compact device and click the button **Fetch device details...** next to the serial number input field:



The **Device type**, the **function points type** (class-bound or classless), and the **current function points**, assigned to the device, are displayed. Now specify the desired number of function points. In the following example, the current class **Base + 100** is to be increased to the next possible class **Base + 125**. This extends the current license by 25 points and 25 points are debited from the function point budget with the generation of the license file and will be invoiced. Click **Generate license file (DAF)** to start the generation:

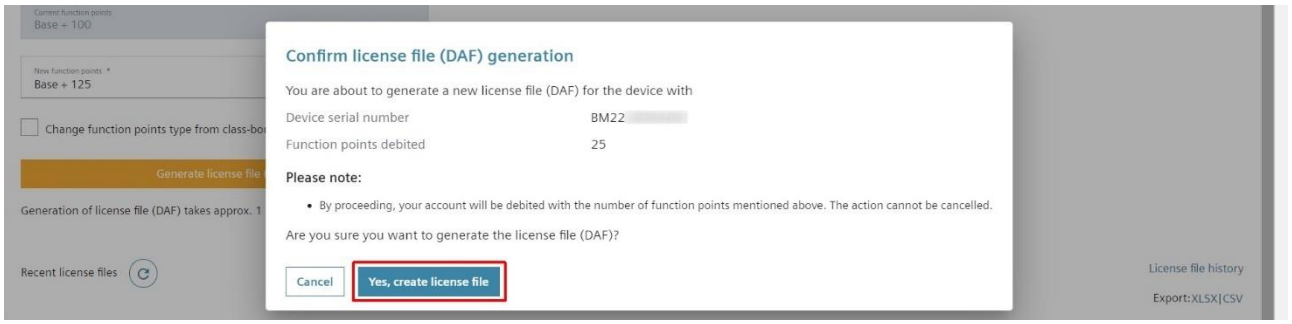


If your function point budget is insufficient, you will be notified with an error message and you will not be able to start the license file generation. In this case, order a new function point budget to have sufficient credit:

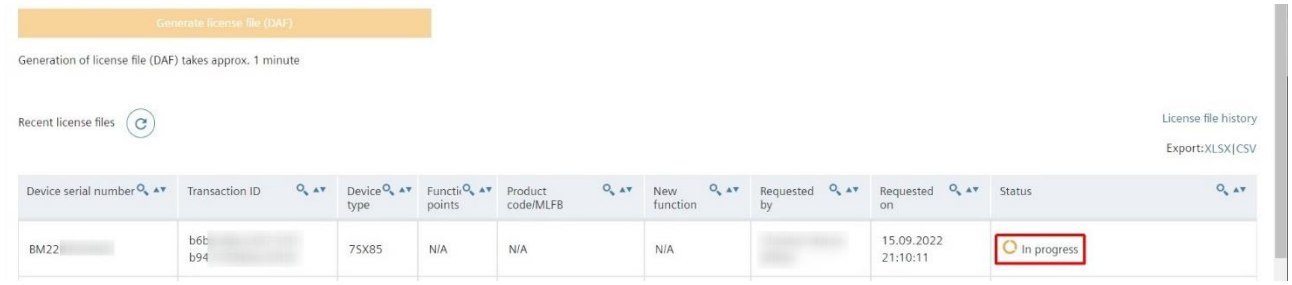
If the budget is sufficient, the dialog **Confirm license file (DAF) generation** appears. Doublecheck the device serial number and the number of function points that will be added and debited. Note that the generation is subject to a fee in the form of function points.

Confirm by clicking **Yes, create license file** that the information is correct and you have taken note that the generation cannot be cancelled once it has been started.

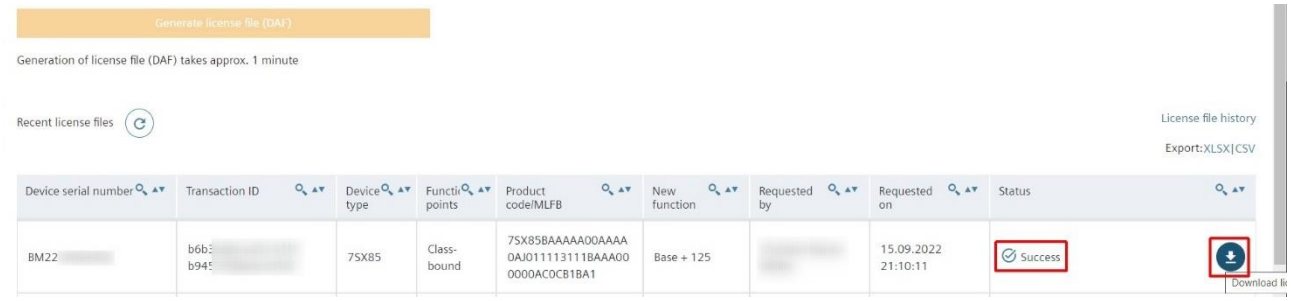
Note: Once a license file (DAF) has been generated, the function points assigned to the device can no longer be removed! However, the license can be extended at any time.



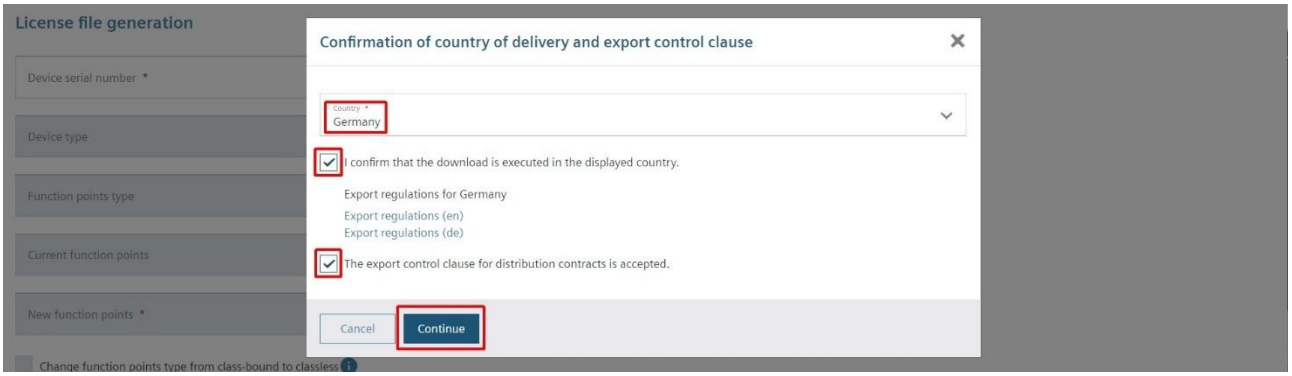
A few seconds after license file generation is started, a new row appears in the table **Recent license files** with the new license file, which is now **In progress**:



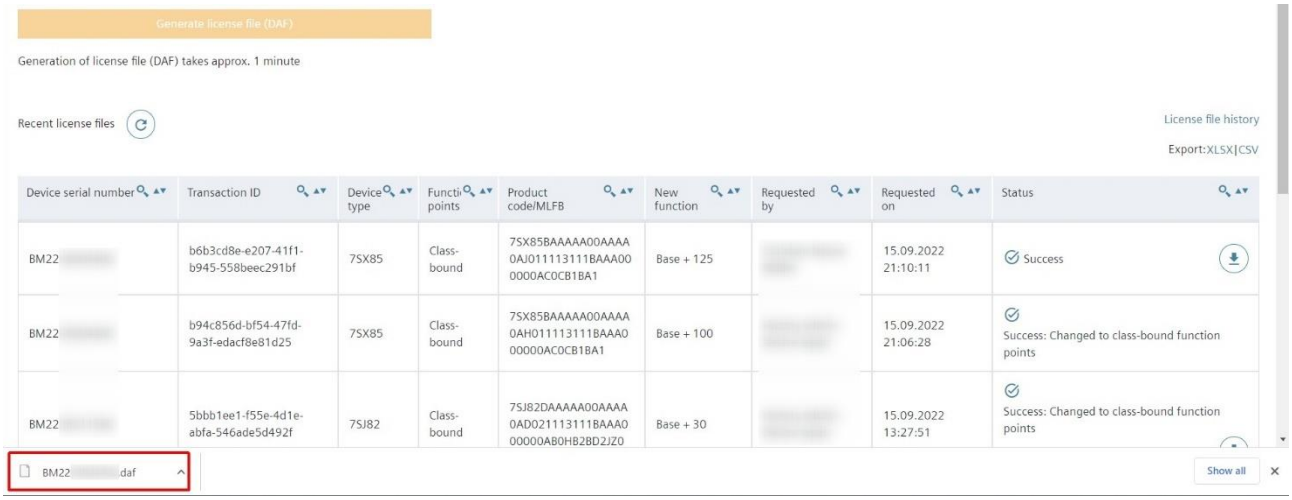
After another 30...240 sec the new license file is available for download. This is displayed with the status **Success**. Click the button **Download license file** that appears on the right side in the table row to download the file:



Before the download can take place, it is necessary to confirm the **Country of delivery and export control clause**. Select your current country of residence and confirm it. In addition, we ask for confirmation of the export regulations, which you can download for inspection. Clicking **Continue** starts the download:

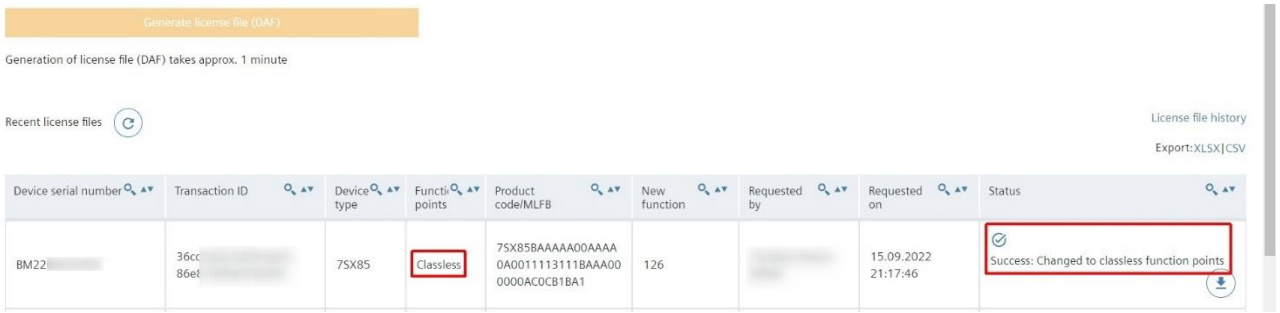


The license file (DAF) appears in the download area of your web browser and is ready for uploading it into your SIPROTEC 5 device (chapter 3.3):



If you want to generate a license file with classless function points, select **Change function points type from class-bound to classless** and enter an integer value under **New function points**:

The function point type of the license file has thus been changed to "classless":



Note: You can change the function point type from "class-bound" to "classless" and vice versa each time license files are generated.

3.3 Upload License Files into the device

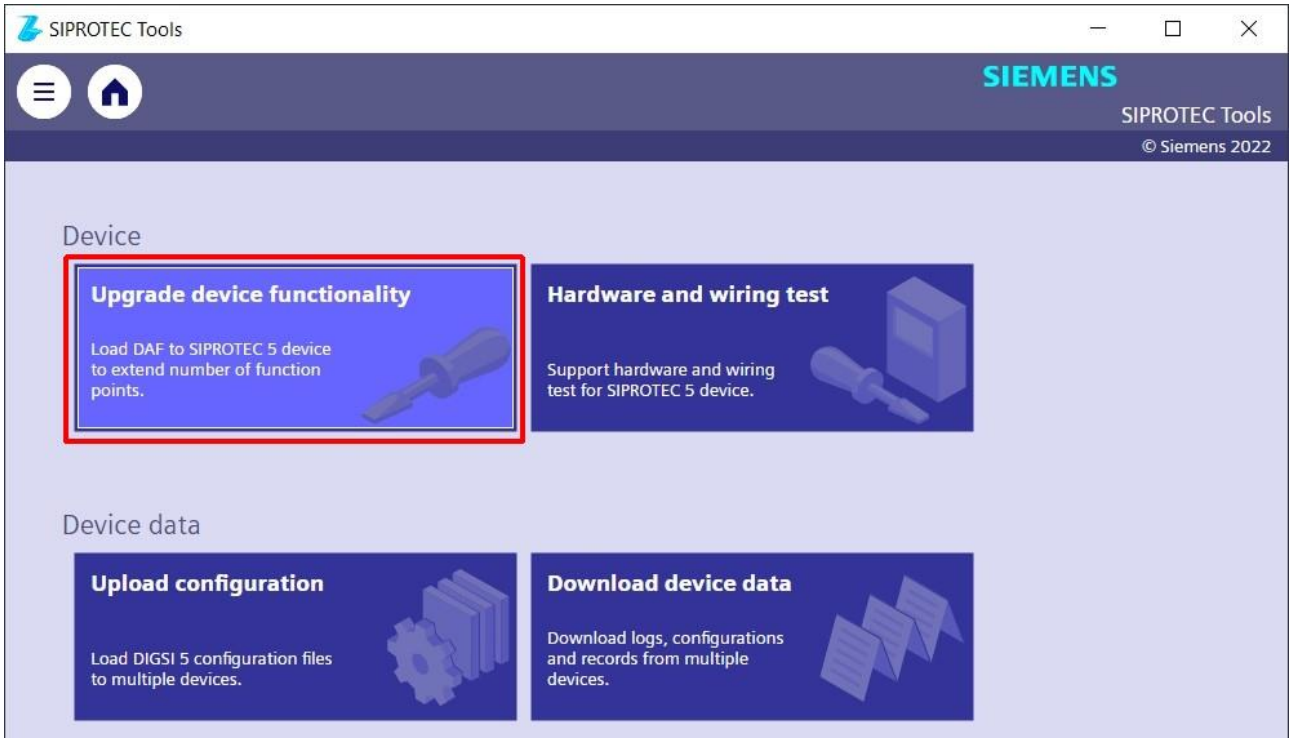
3.3.1 SIPROTEC Tools

SIPROTEC Tools is a collection of desktop-based utilities for easy interaction with SIPROTEC 5 devices. A DIGSI 5 installation is not required. The following functions are supported:

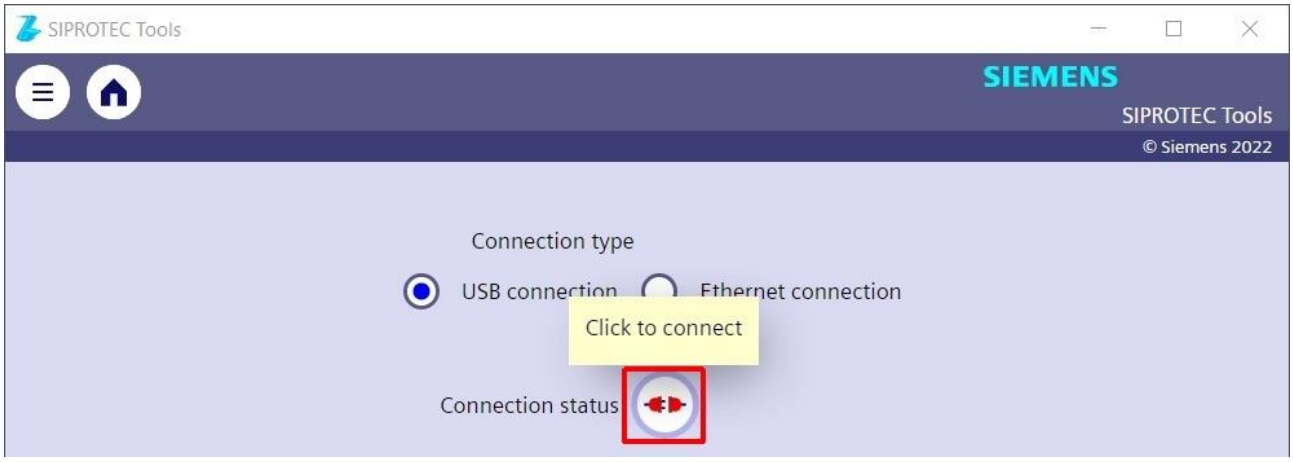
- Uploading license files (DAF)
- Hardware and wiring test
- Upload configuration (TCF format from SIPROTEC 5 firmware V09.20) to multiple devices
- Download logs, configurations and fault records from multiple devices

To prepare, download SIPROTEC Tools from the SiePortal and install the application. If DIGSI 5 is not installed on your system and you want to connect the SIPROTEC 5 device with SIPROTEC Tools via USB, the installation of a USB driver is required. Installation instructions and further information can be found in the SIPROTEC Tools product data sheet supplied with the application.

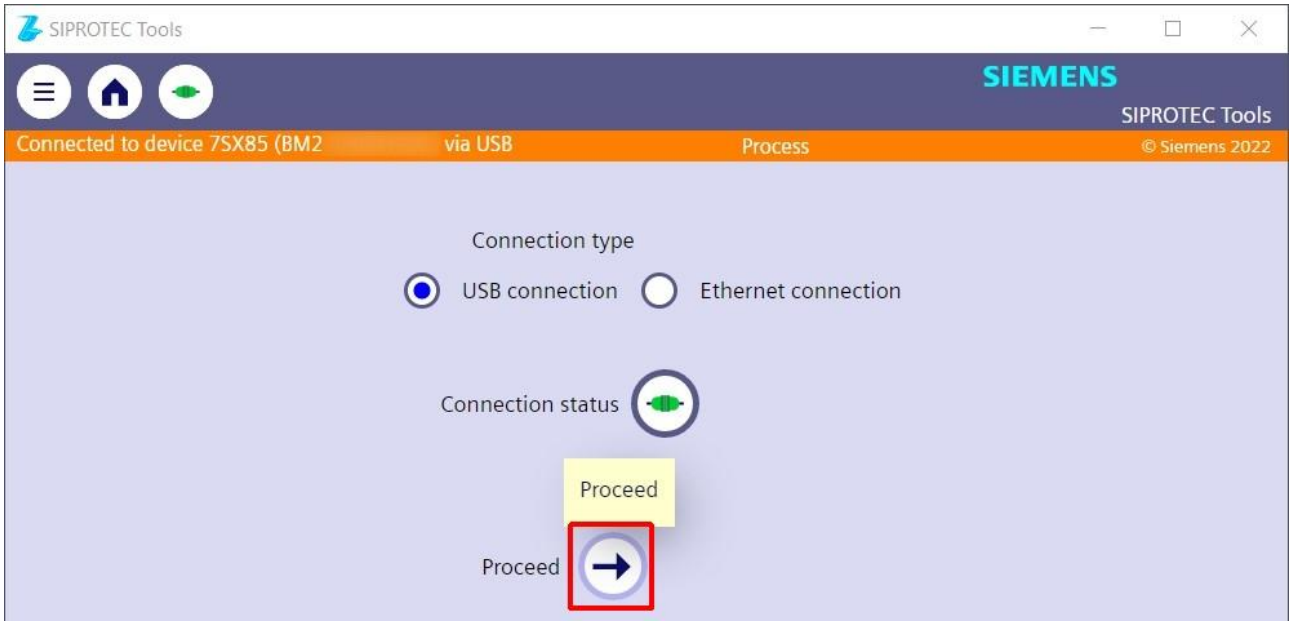
Next configure and create the network connection or connect the device via a USB cable. Start SIPROTEC Tools and click on **Upgrade device functionality**:



Select the connection type **USB connection** or **Ethernet connection** and click on the button **Click to connect** to connect to the device:

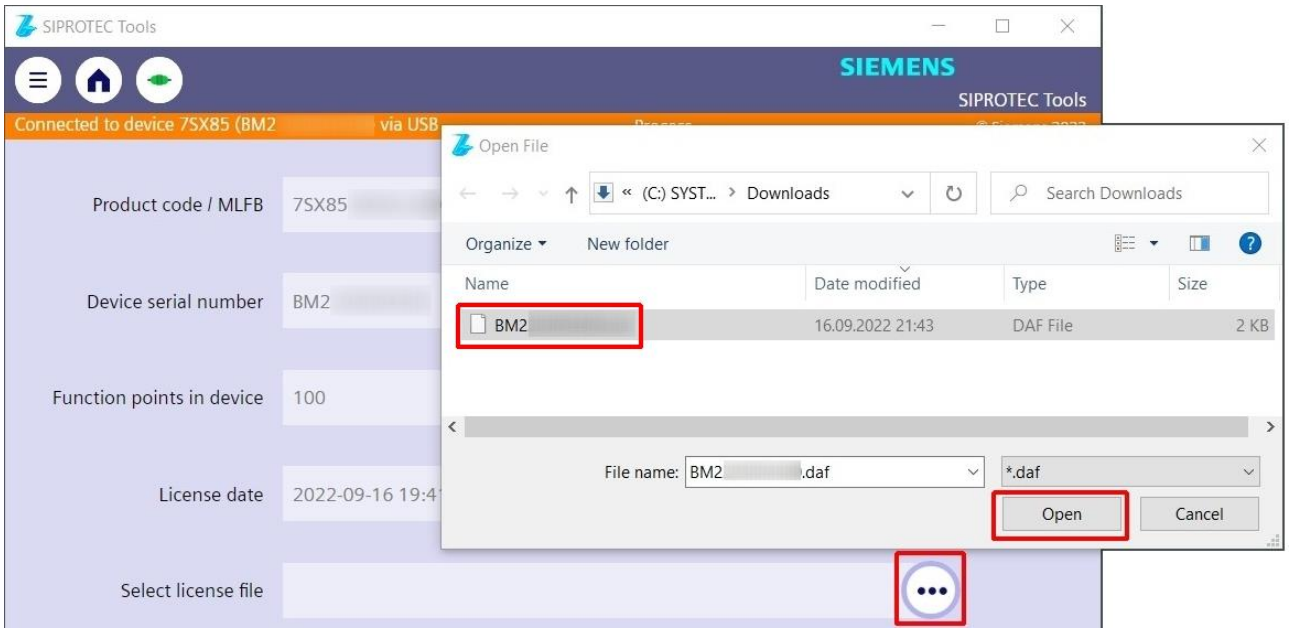


When the connection has been established, the **Connection status** button turns green. Click on **Proceed** to continue:



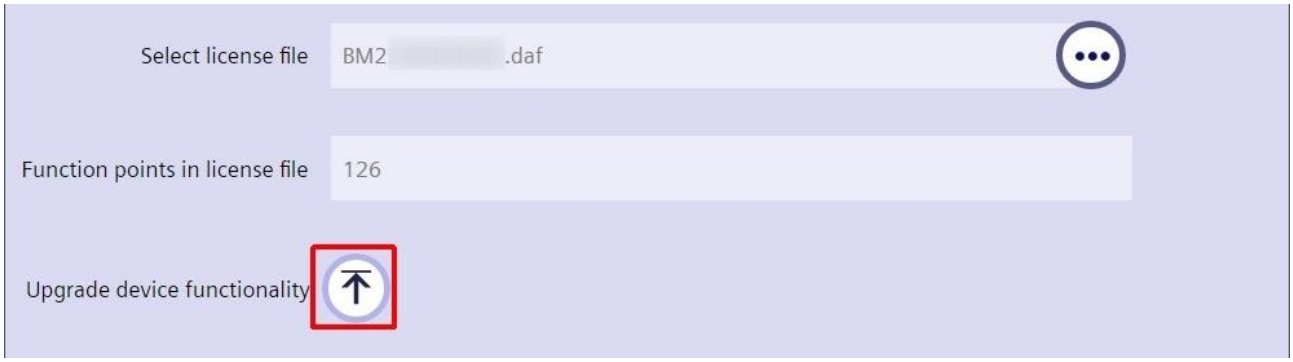
SIPROTEC Tools now displays some device details, such as the **Product code**, the **Device serial number**, the **Function Point in device** and the **License date**.

Click **Select License File**. In the **Open File** dialog navigate to the directory where the license file was previously generated with the Function Point Manager, e.g. the download directory. Make sure that the file name contains the appropriate serial number. Click **Open** to open the license file:

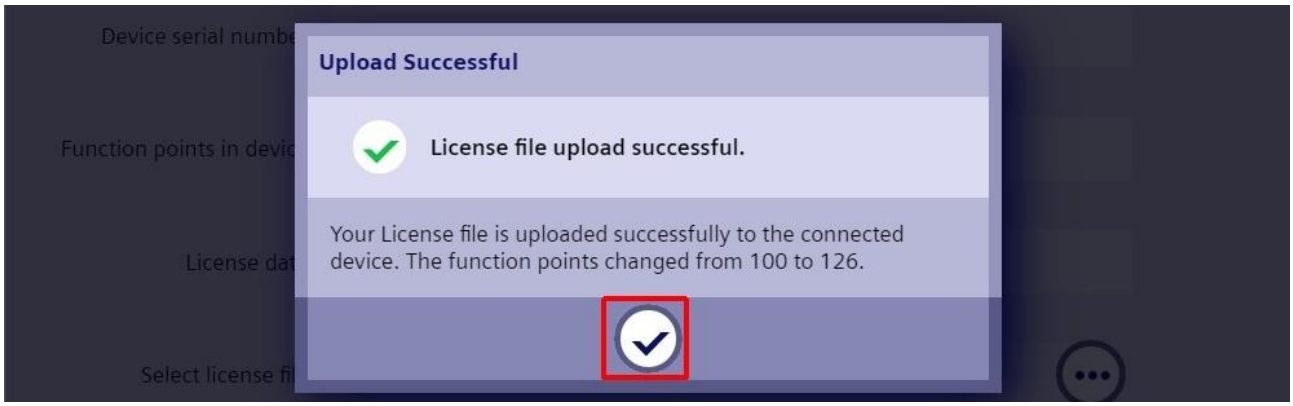


Note: The new license file must be younger than the one in the device. If this is not the case, loading the file into the device is not possible!

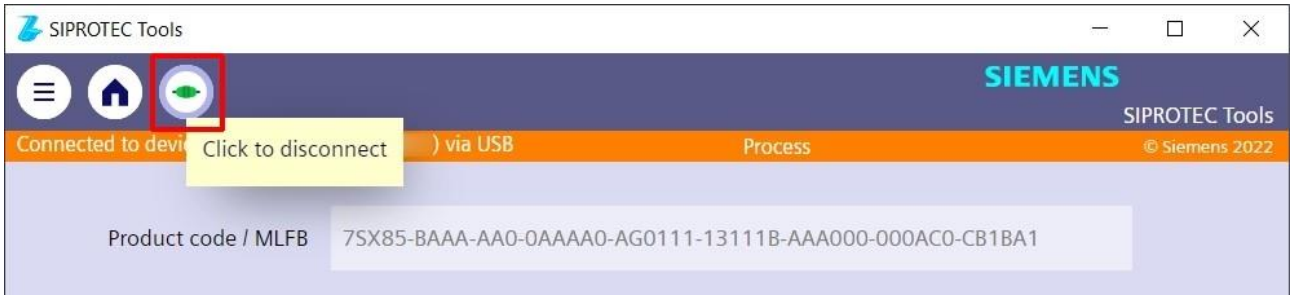
The **Function points in license file** are displayed. Click **Upgrade device functionality** to load the file into the device:



If the upload was successful, the device will restart and the changed function points will be displayed. Confirm the **Upload Successful** message:

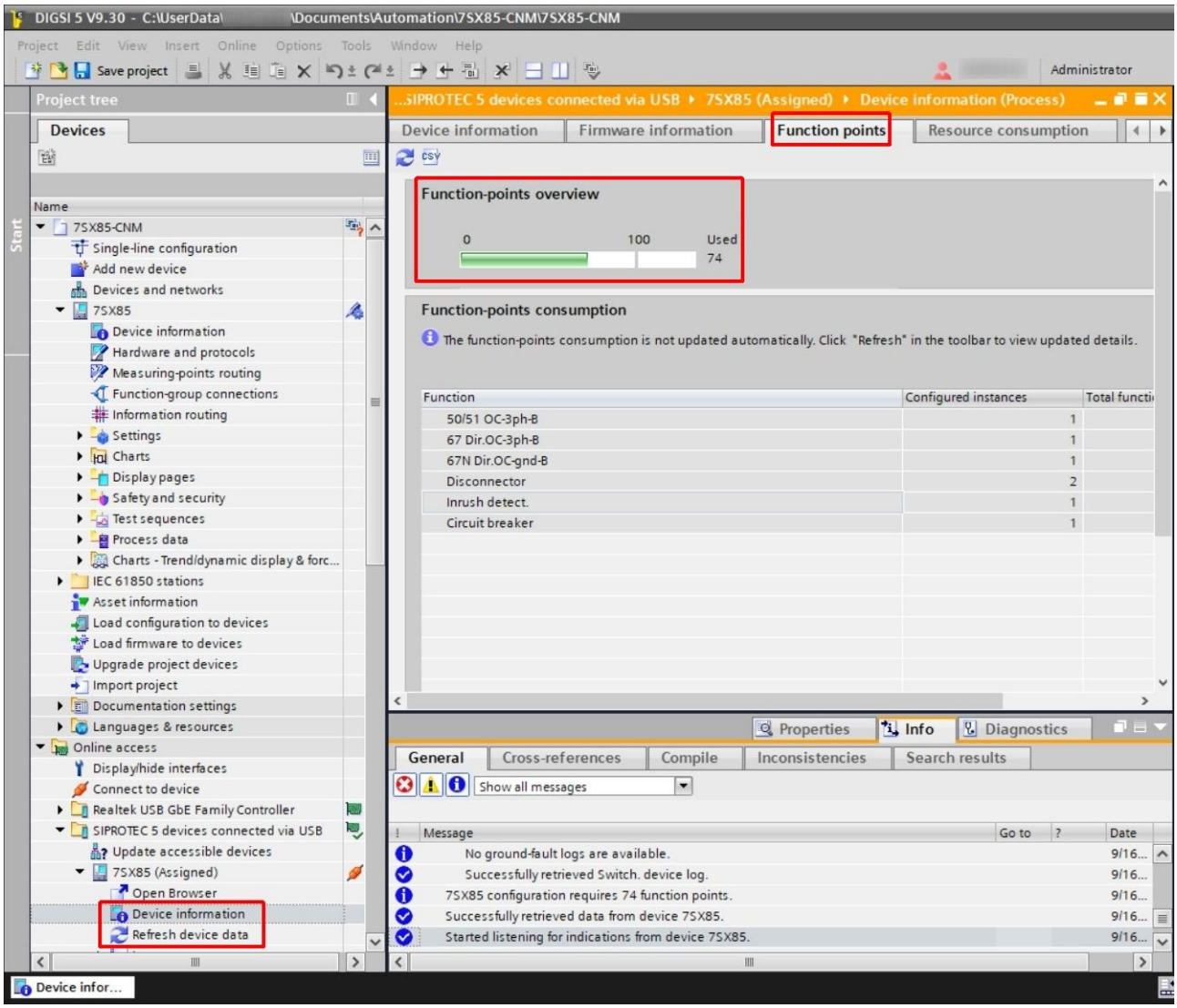


Close the connection with **Click to disconnect** and exit the application:

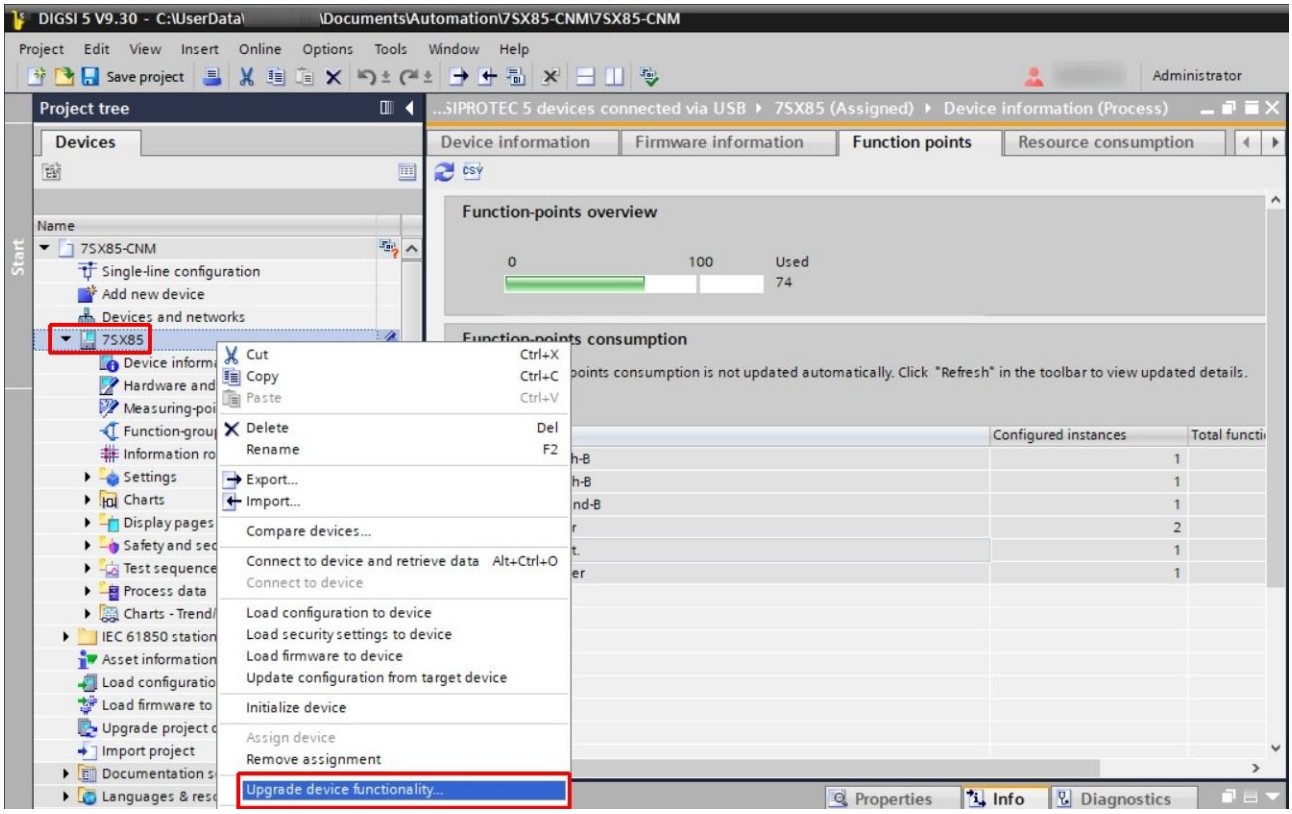


3.3.2 DIGSI 5

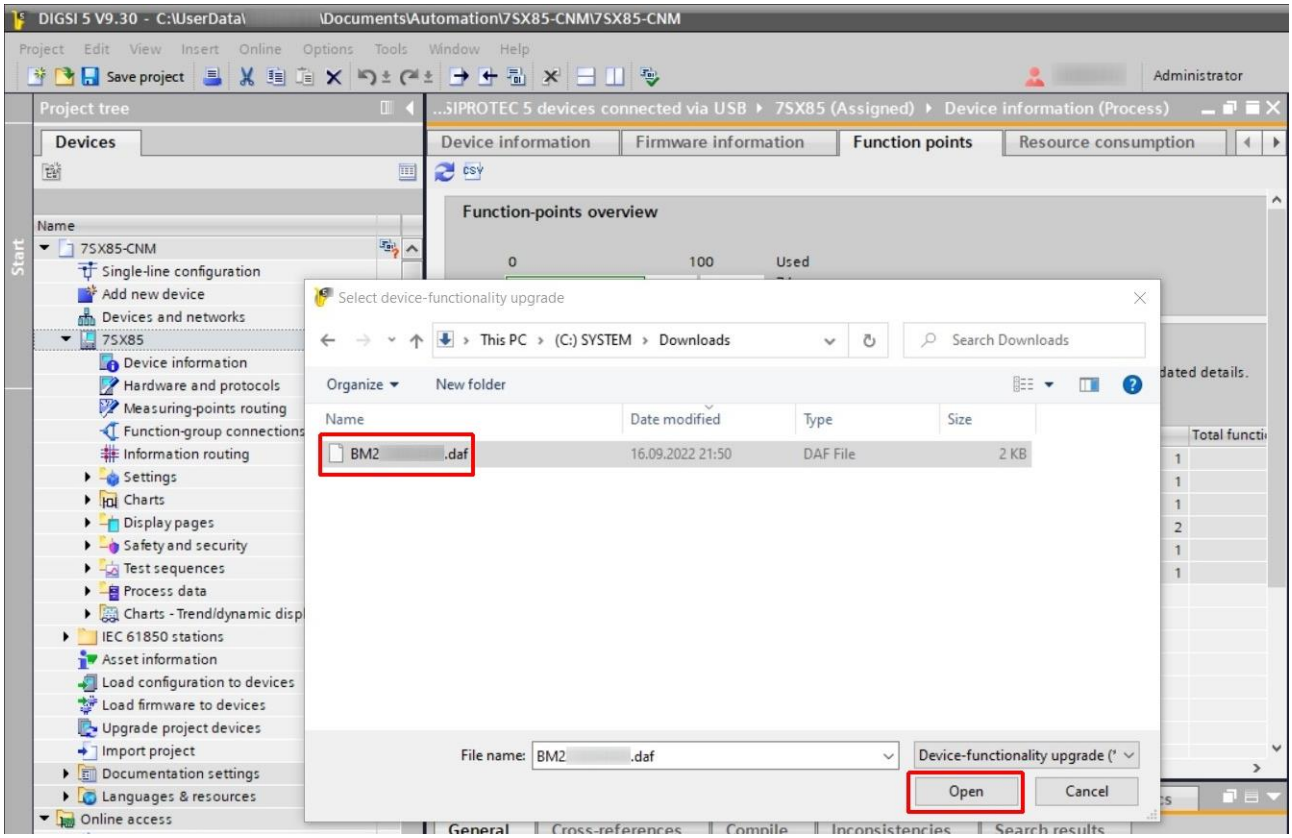
To load the license file into your device using DIGSI 5, configure an offline project and set up the device communication. Start the online connection, click **Refresh device data,** and then click **Device Information**. The **Function Points** tab displays the number of function points currently on the device:



In the **Project tree**, right-click on the device and select **Upgrade device functionality**... in the context menu:

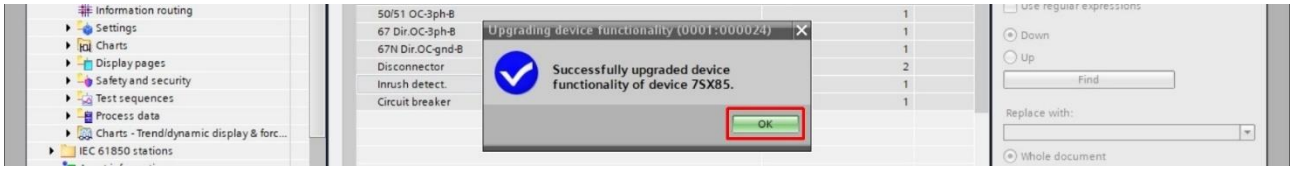


In the file open dialog, navigate to the directory where the license file is stored, which was previously generated with the Function Point Manager, e.g. the download directory. Select the license file (DAF). Make sure that the file name contains the appropriate serial number and click **open** to start the device upgrade:

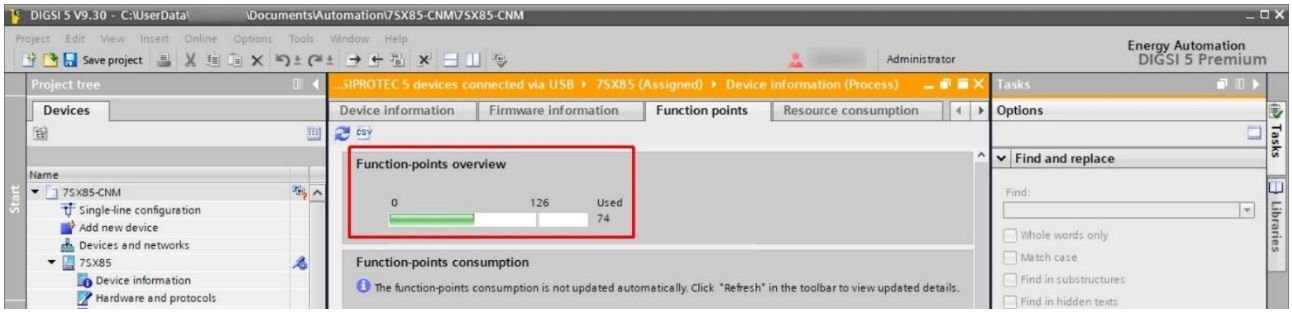


The license file is loaded into the device and afterwards the device is restarted:

Confirm the completion of the upgrade with **OK**:



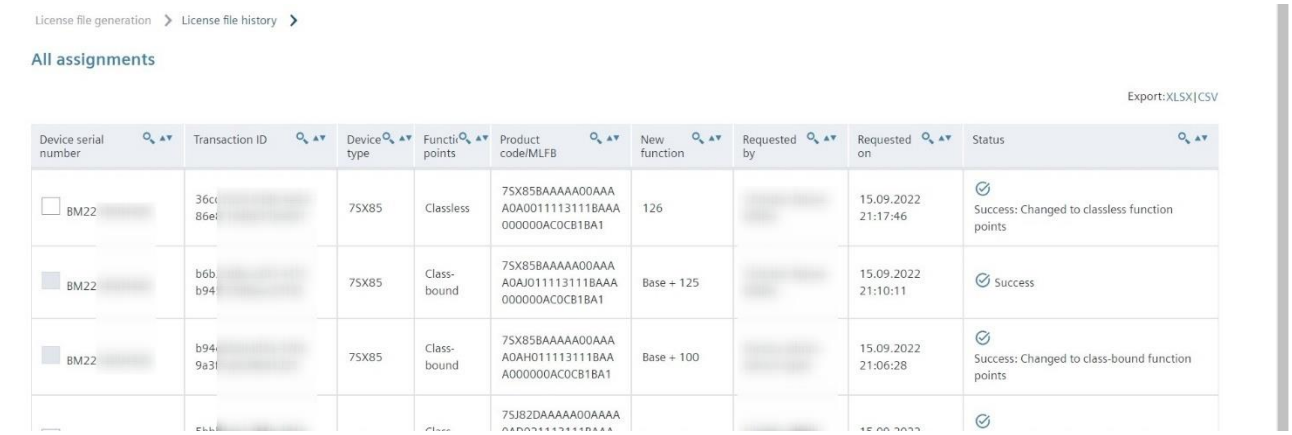
Establish an online connection to the device. Click **Refresh device data,** and then click **Device Information**. The updated number of function points is now displayed in the **Function Points** tab:



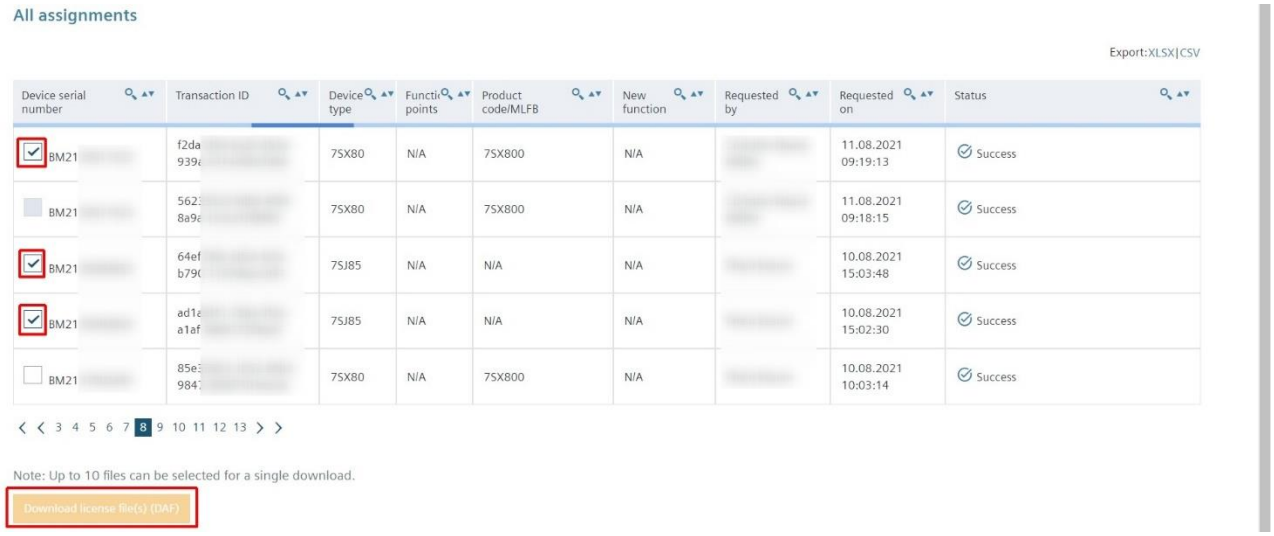
3.4 Manage License Files

The table **Recent license files** contains the last five generated licenses. Click **License file history** to view the history of all licenses generated so far:

The table **All assignments** lists all licenses generated so far. The default is the descending sorting according to the timestamp of the generation (column **Requested on**). The most recent licenses are displayed first:



To download one or more license files, select the checkbox in the corresponding line. Multiple selection is possible. A maximum of 10 license files can be downloaded in one go:



Note: Only the most recent license files version of a device can be downloaded at a time. Therefore, the selection boxes for the older versions of the same file are deactivated.

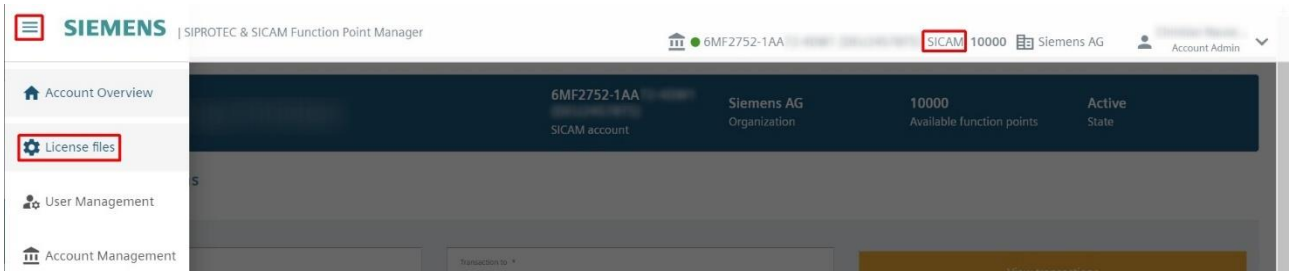
4 SICAM License Files

4.1 Introduction

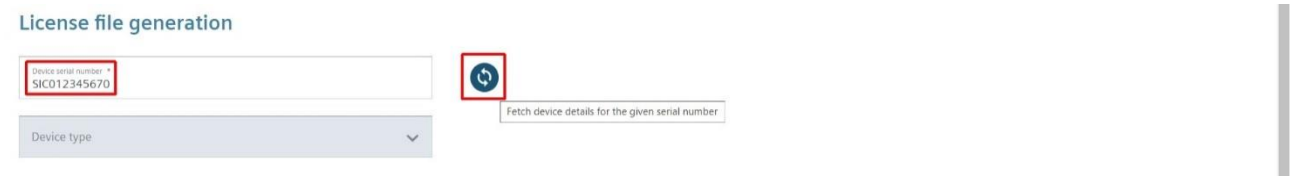
SICAM license files, extension SICLIC, contain one or more license types that represent different device functions. The license types are SICAM device dependent and can be instantiated single or multiple times, depending on the device type. In order to use the license types in the device, the license file must be generated and loaded into the device. Use the Function Point Manager to create the required license files.

4.2 Generate License Files

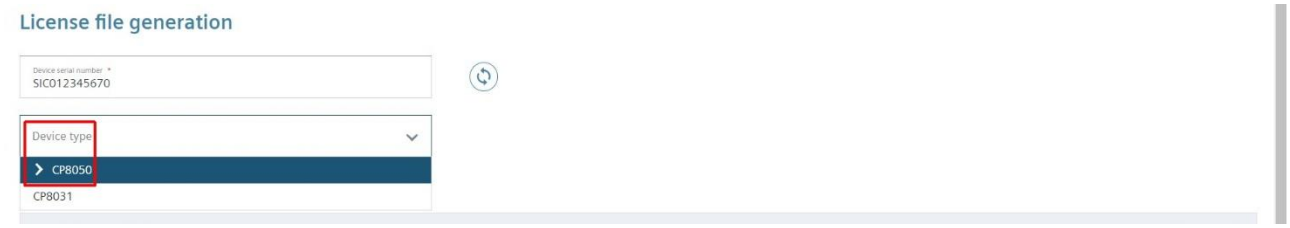
As soon as Function Points have been credited to your SICAM budget account, the account switches to the "Active" status. Now you can generate license files for SICAM devices. Make sure that you have selected a SICAM account as the active account and click on **License files** in the menu ☰:



Enter the SICAM **Device serial number** and click **Fetch device details for the given serial number**. This reads in a license that may have already been generated with the Function Point Manager:



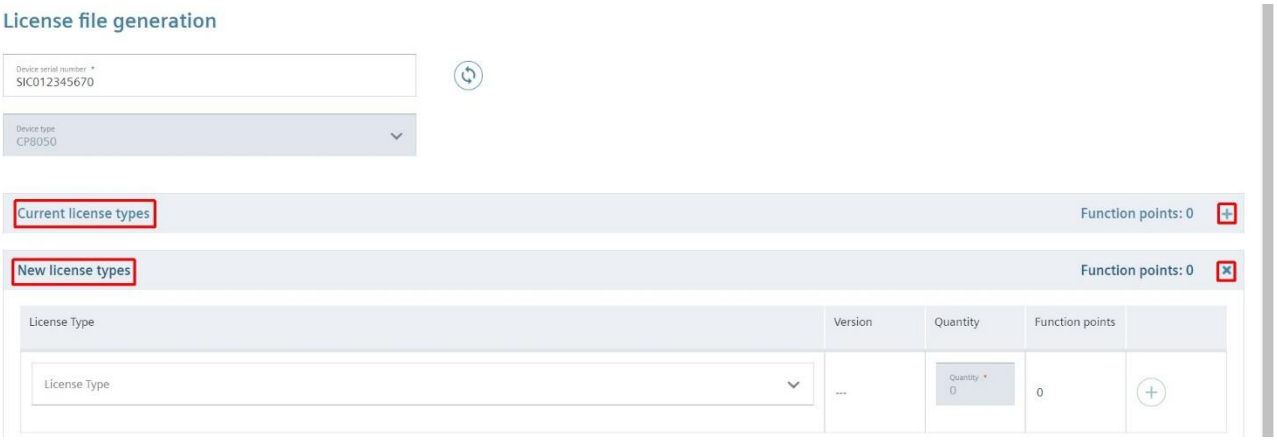
If a license has already been created for the device, the **Device type** selection box cannot be changed and the type is displayed. If the device has not yet been licensed, select the **Device type**:



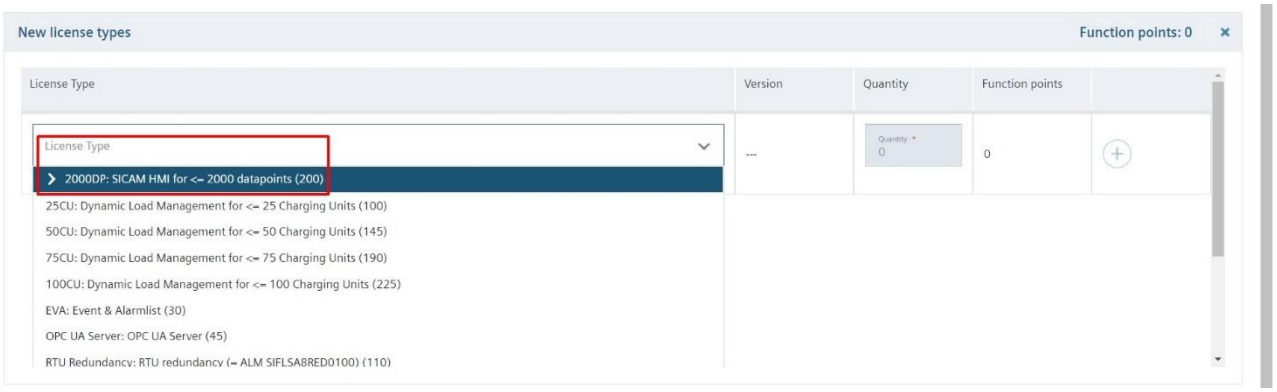
Note: Once the license file has been generated, the device type cannot be changed!

If a license has already been created for the device, the license types are displayed by clicking the plus icon in the **Current license types** section. If a license has not yet been created, the Function Point number is zero and the section cannot be opened.

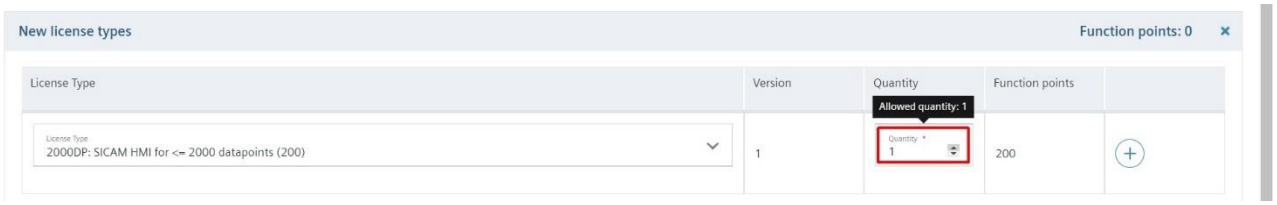
In the **New license types** section, click the plus icon to begin configuring the license or extend an existing license:



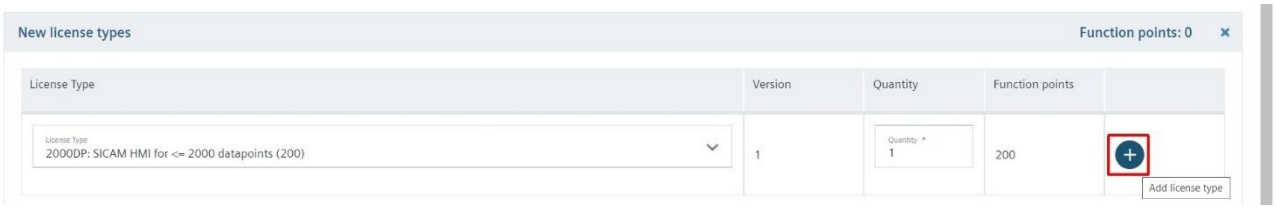
Select the **License Type** you want to add to the license from the drop-down menu:



Select the desired **Quantity** of the license type. The selection is limited and the possible maximum number of instances is displayed if you want to increase the number with the arrow keys:



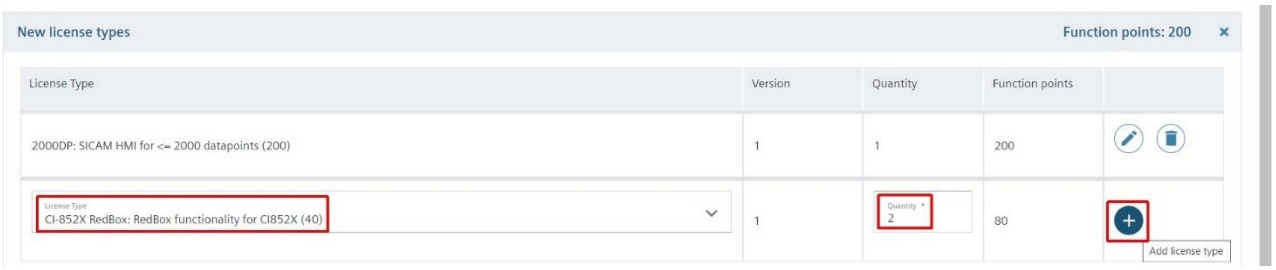
Click the plus icon to add the license type to the license:



Click **Edit quantity** if you want to correct the number of license types:

Click **Remove license type** if you want to remove the license type from the license:

If you want to add more license types, repeat the previous steps:

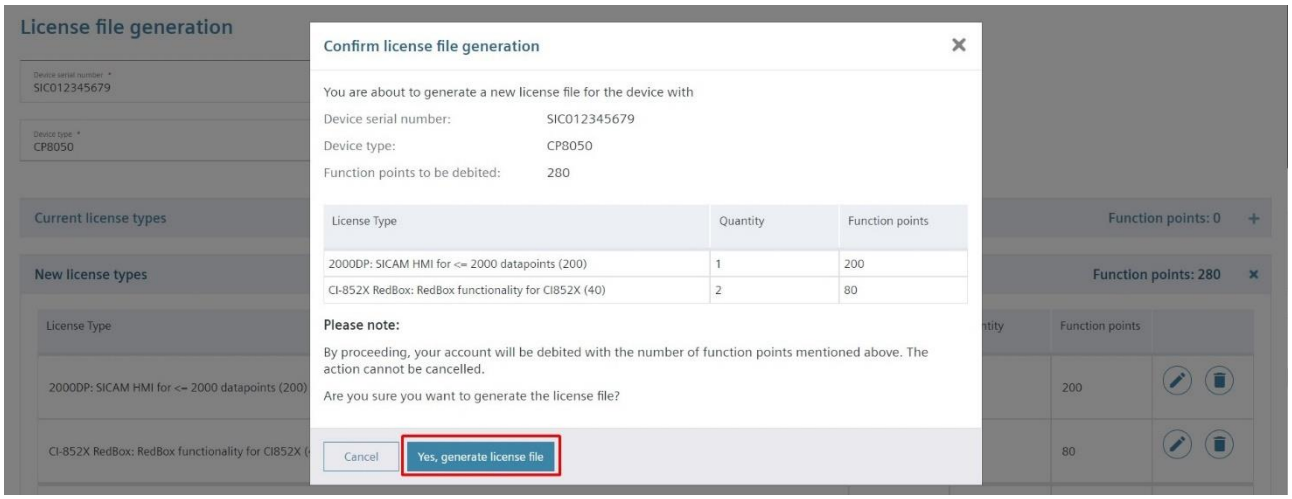


Click **Generate license file** when you have added all the required license types and want to create the license:

Check your entries. Please pay attention to the correct serial number of the device, the device type, the license types and their respective number. Note that the generation is subject to a fee in the form of function points.

Confirm by clicking **Yes, generate generate file** that the information is correct and you have taken note that the generation cannot be cancelled once it has been started.

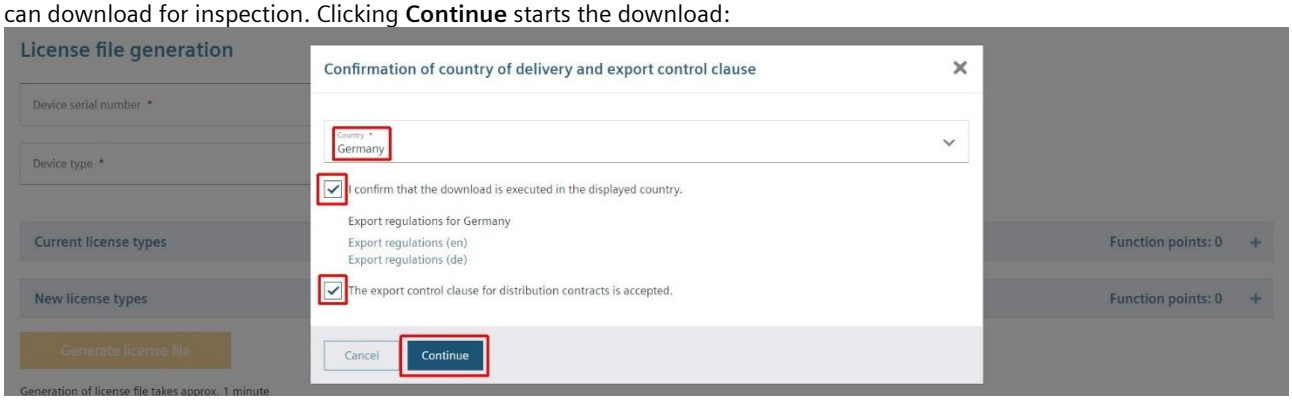
Note: Once a license file has been generated, the license types assigned to the device can no longer be removed! However, the license can be extended at any time.



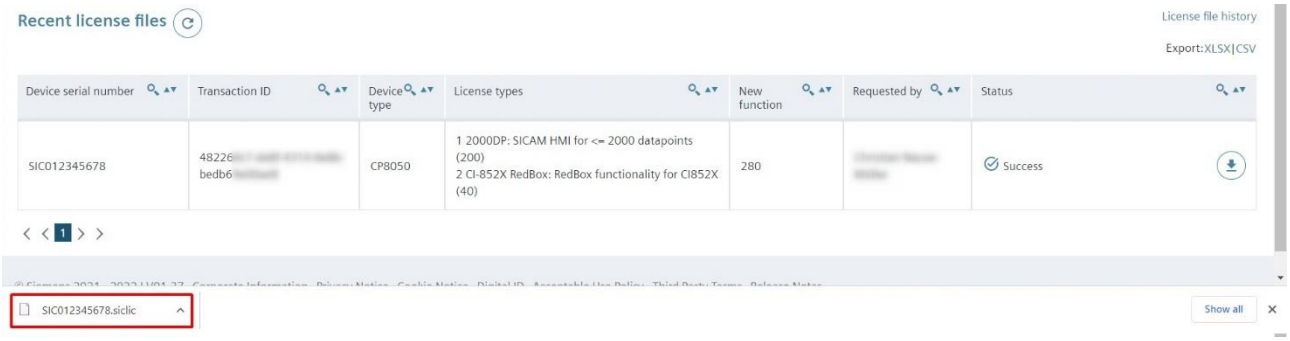
A few seconds after license file generation is started, a new row appears in the table **Recent license files** with the new license file, which is now **In progress**.

After another 30...240 sec the new license file is available for download. This is displayed with the status **Success**. Click the button **Download license file** that appears on the right side in the table row to download the file:

Before the download can take place, it is necessary to confirm the **Country of delivery and export control clause**. Select your current country of residence and confirm it. In addition, we ask for confirmation of the export regulations, which you can download for inspection. Clicking **Continue** starts the download:

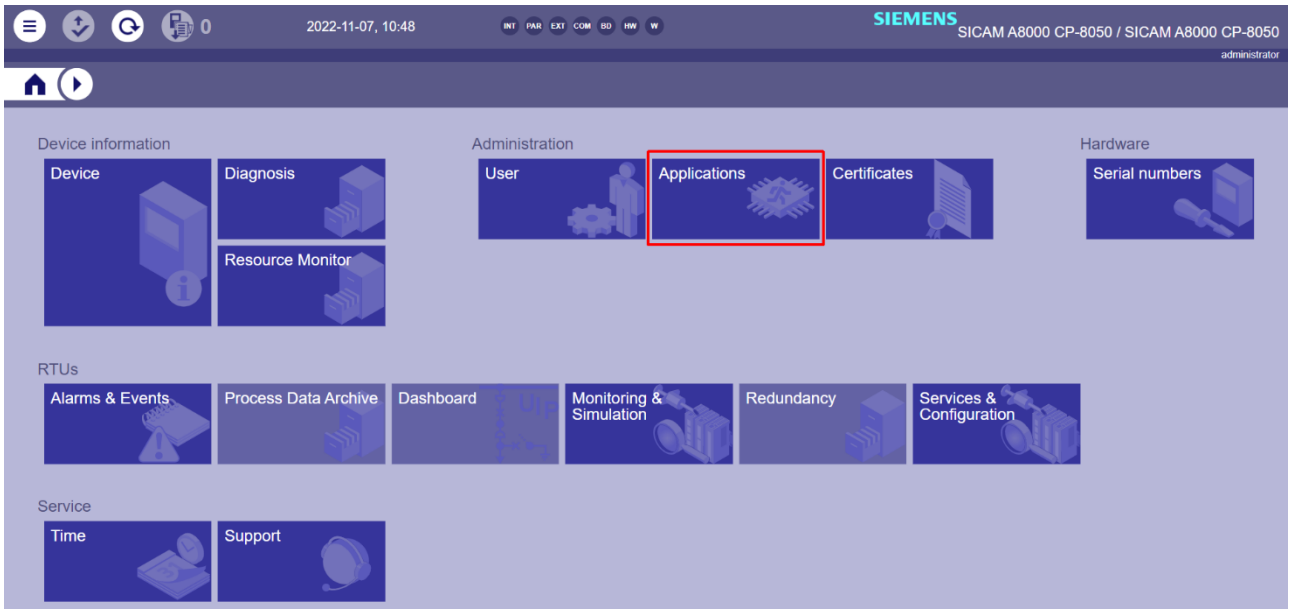


The license file appears in the download area of your web browser and is ready for uploading it into your SICAM device:

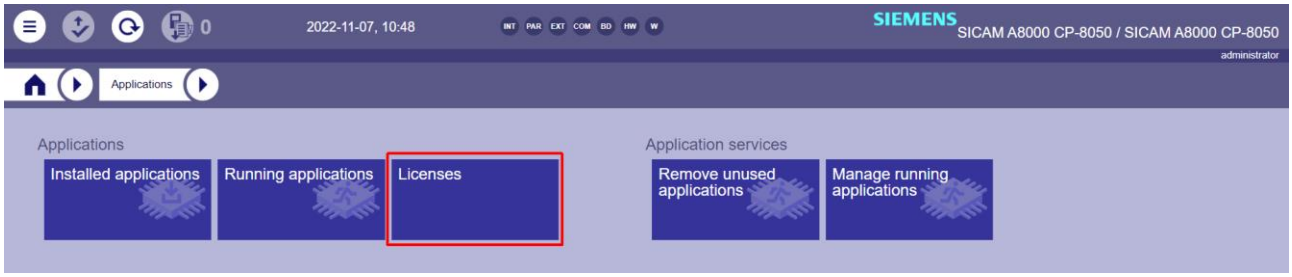


4.3 Upload License Files into the device

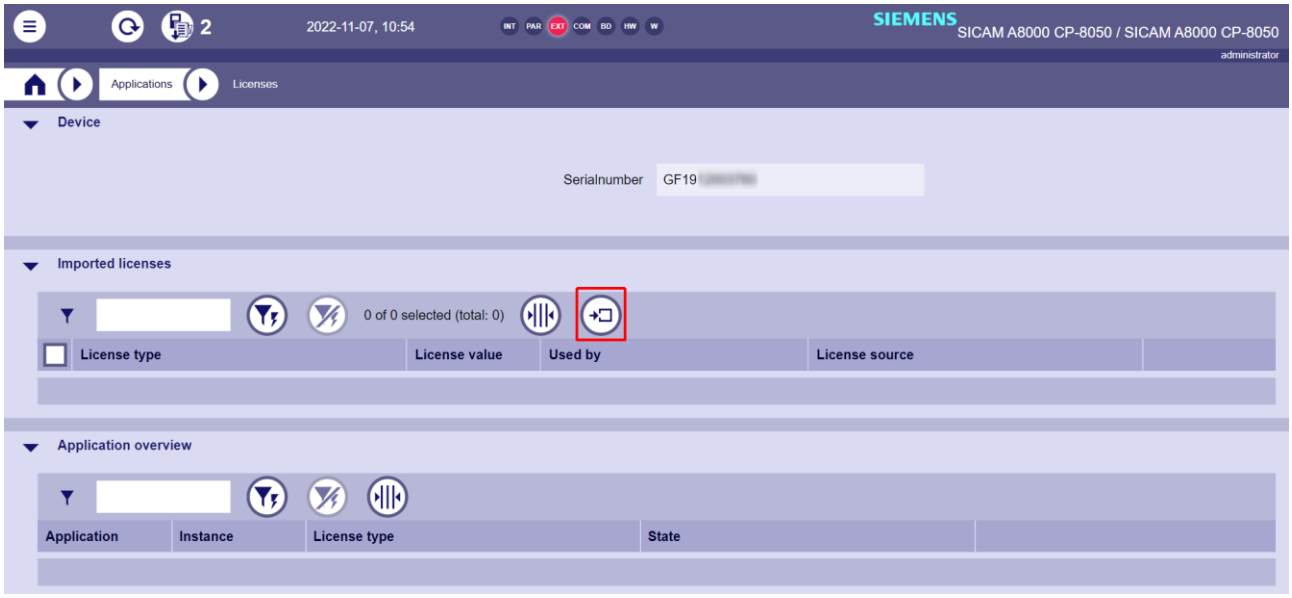
To load the license file generated with the Function Point Manager into your SICAM device, start **SICAM WEB** and open the connection to your SICAM device. Click on **Applications**:



Continue with **Licenses**:



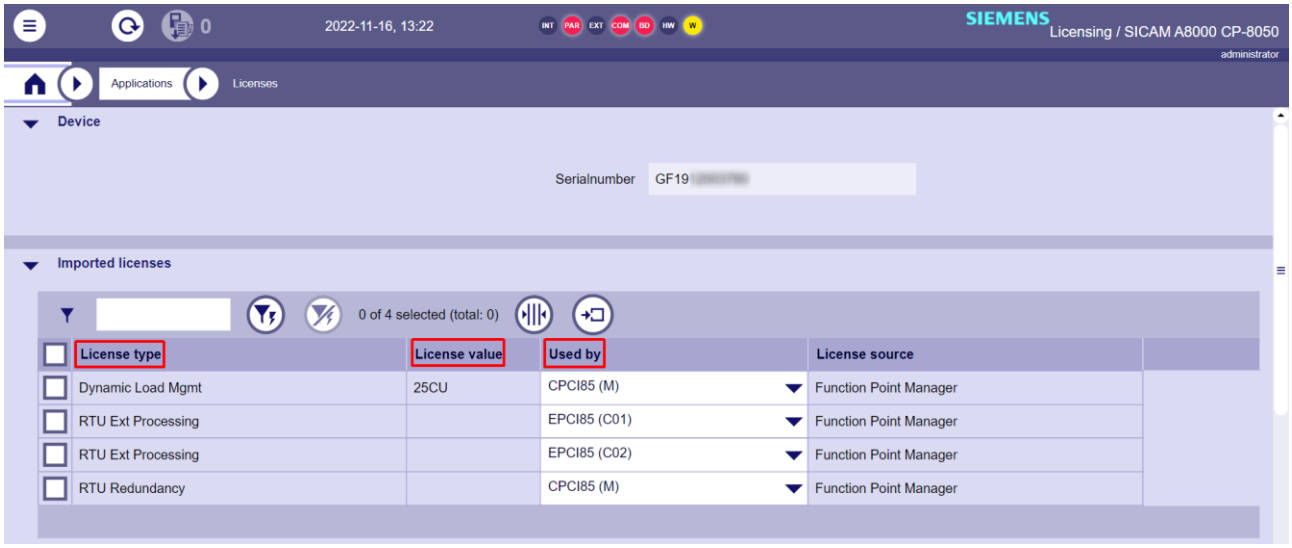
Click the button **Import license file from SICAM Function Point Manager**:



In the dialog **Upload file**, click **Select a file** and navigate to the directory where the license file previously generated with the Function Point Manager is located, e.g. the download directory. Make sure that the file name contains the appropriate device serial number. Confirm the selection to load the license file into the device:

A **License type** is a configurable functionality / application running on a SICAM device (e.g. “Redundancy”). A license type may have different subtypes (**License values**). The required value is determined by the concrete parameters of the function / application (e.g. a SICAM HMI needs a different license value according to the number of engineered datapoints).

SICAM WEB automatically assigns the license types to the application instances. You can change these assignments in the **Used by** column:

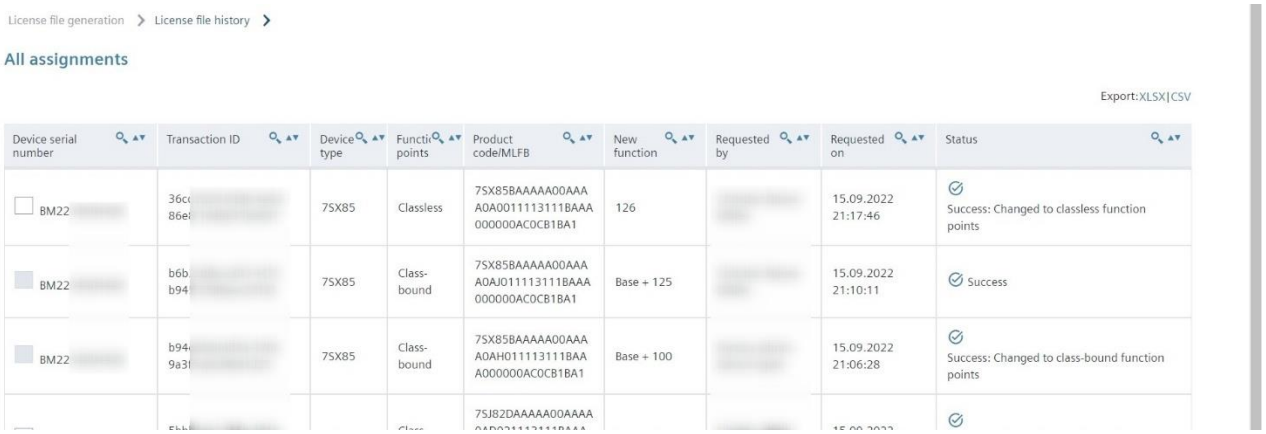


You have now added the SICAM license to your device and you can close SICAM WEB.

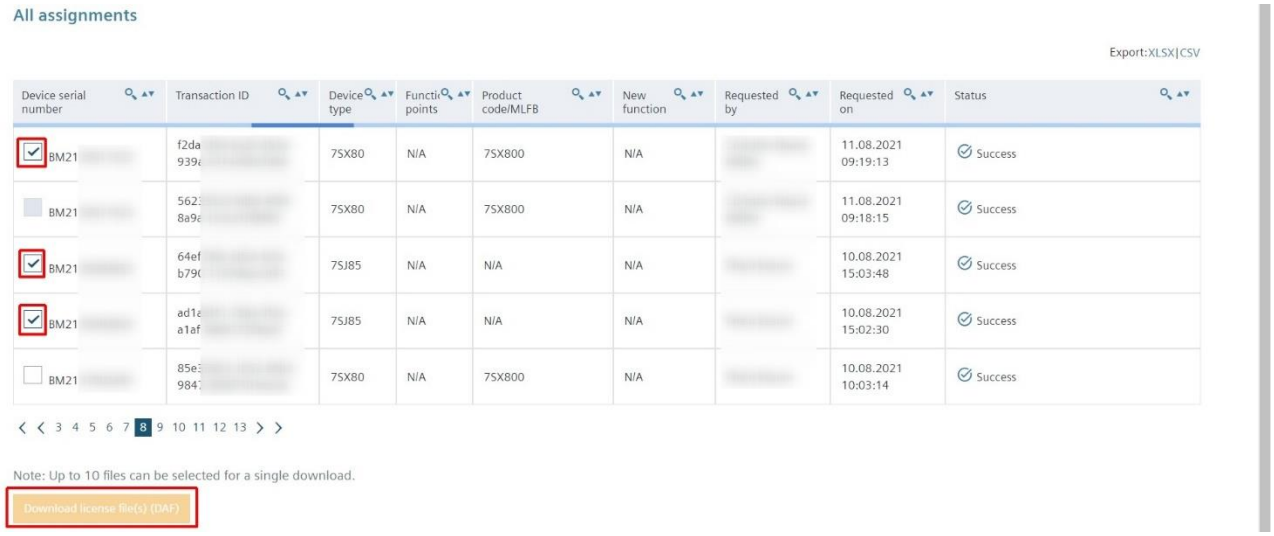
4.4 Manage License Files

The table **Recent license files** contains the last five generated licenses. Click **License file history** to view the history of all licenses generated so far:

The table **All assignments** lists all licenses generated so far. The default is the descending sorting according to the timestamp of the generation (column **Requested on**). The most recent licenses are displayed first:



To download one or more license files, select the checkbox in the corresponding line. Multiple selection is possible.
A maximum of 10 license files can be downloaded in one go:



Note: Only the most recent license files version of a device can be downloaded at a time. Therefore, the selection boxes for the older versions of the same file are deactivated.

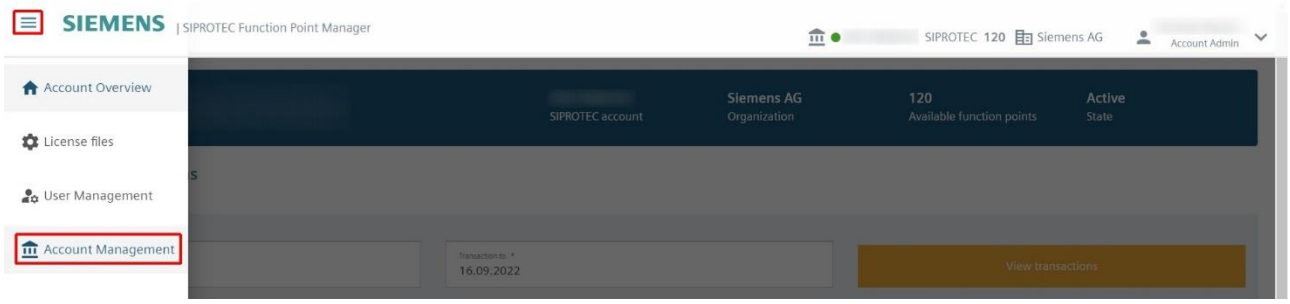
5 Budget Accounts

5.1 Account Management

5.1.1 Introduction

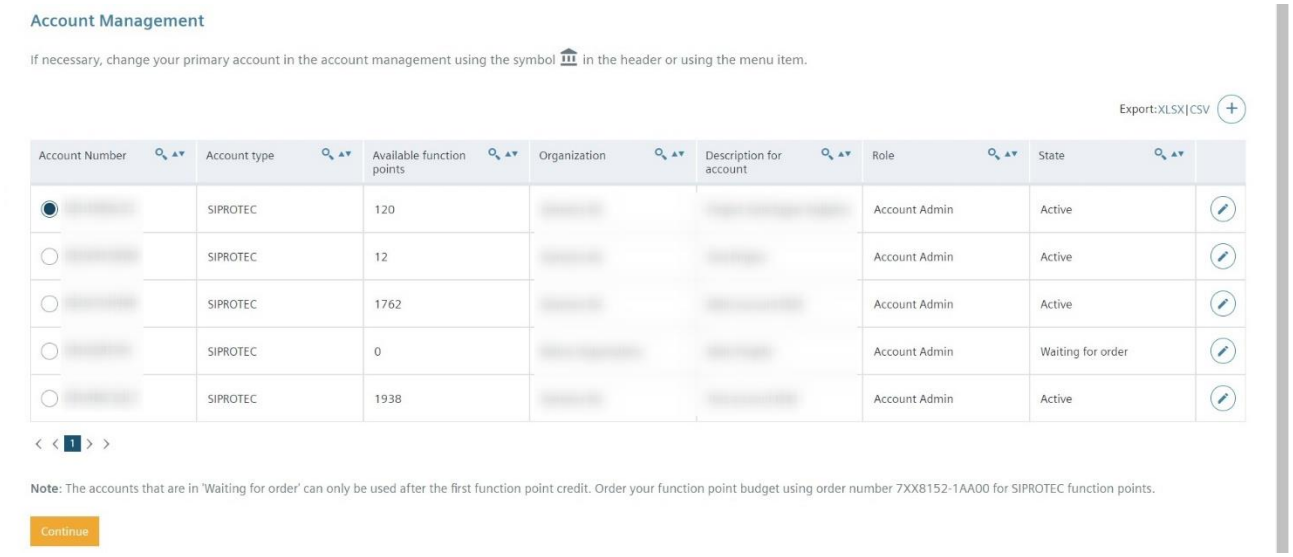
A user can have one or more budget accounts. In the account management you get an overview of your accounts, can change the active account, make account changes and create new budget accounts.

Click on **Account Management** in the menu ☰ to open it:



Alternatively, click on the active budget account in the header. This will also take you to the Account Management:

In the **Account Management** table, you can get an overview of your accounts, their **Account Number** (Account ID), the **Account type** "SIPROTEC" or "SICAM", the **Available function points** budget, the **Organization** name, the **Description for the account**, your user **Role**, and the account **State**:

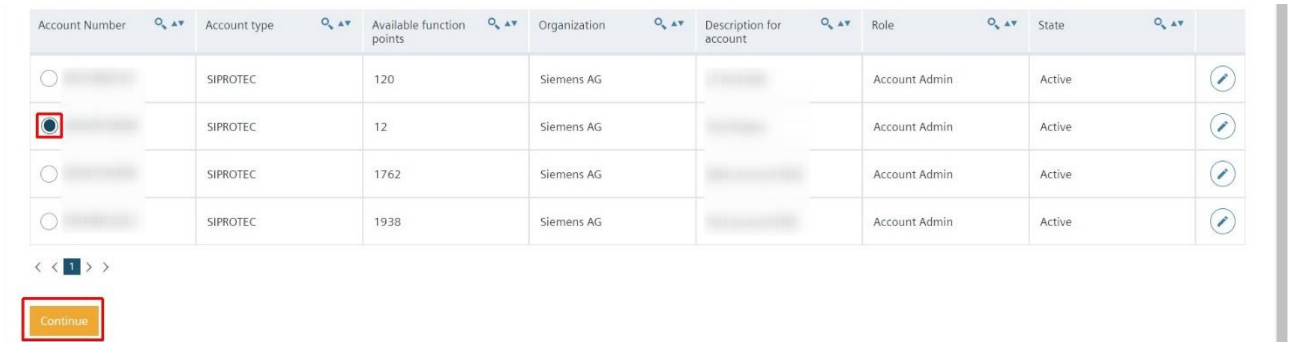


Note: Your user role may vary from account to account. Example: You have created account A and are the “Account Administrator” there. You were added to account B by the administrator of account B and have the role “Account User” there. Details on user roles can be found in chapter 6.1.

5.1.2 Active Account

The license file generation, the associated account debit and the table of account transactions always refers to the active budget account. The budget account number (article number) of the currently active account, the account type, and the current function point budget are displayed in the header:

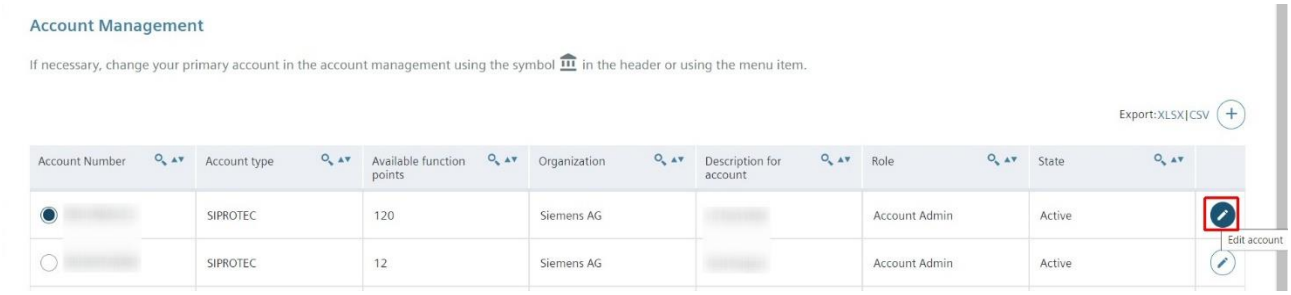
To change the active account, select the desired account and click **Continue**:



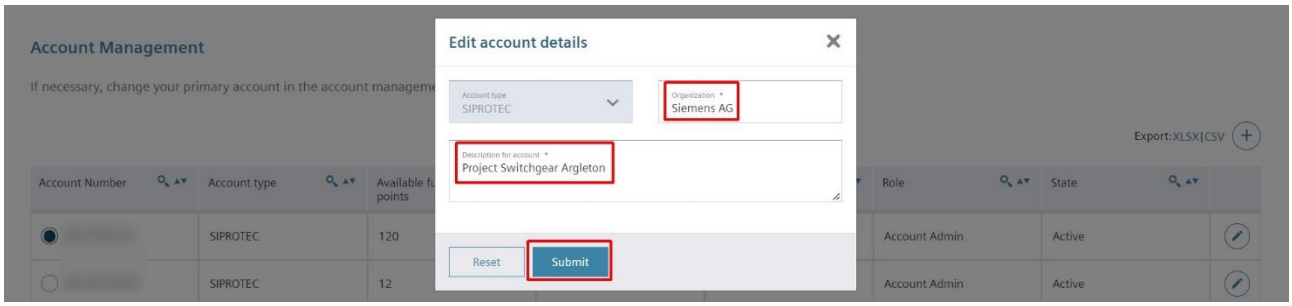
Thus, the selected budget account has become active and it is displayed in the header.

5.1.3 Edit Account Details

To change the account name or the name of your organization associated with the account, select the account you want to change in **Account Management** and click **Edit account**. This can only be done by account administrators.



In **Edit account details**, you can change the **Organization** name and the **Description** for the account. Confirm the change with **Submit**:



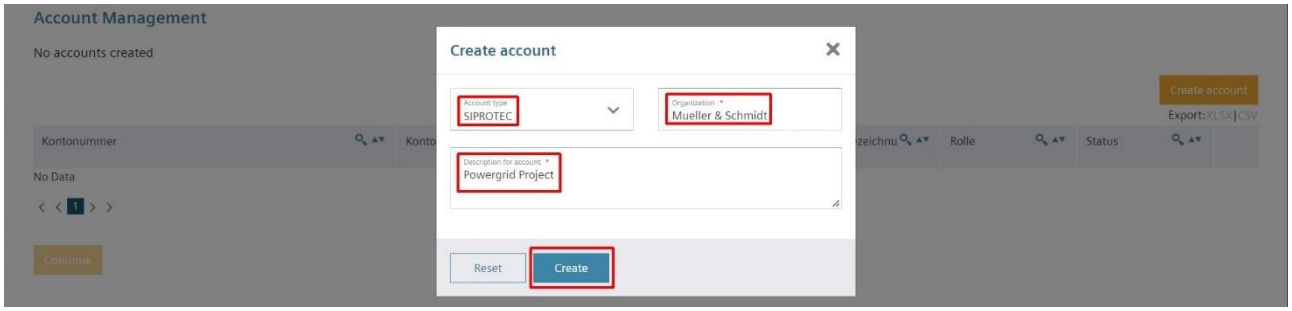
Note: The **Account type** "SIPROTEC" or "SICAM" cannot be changed after creating the account!

5.1.4 Create Account

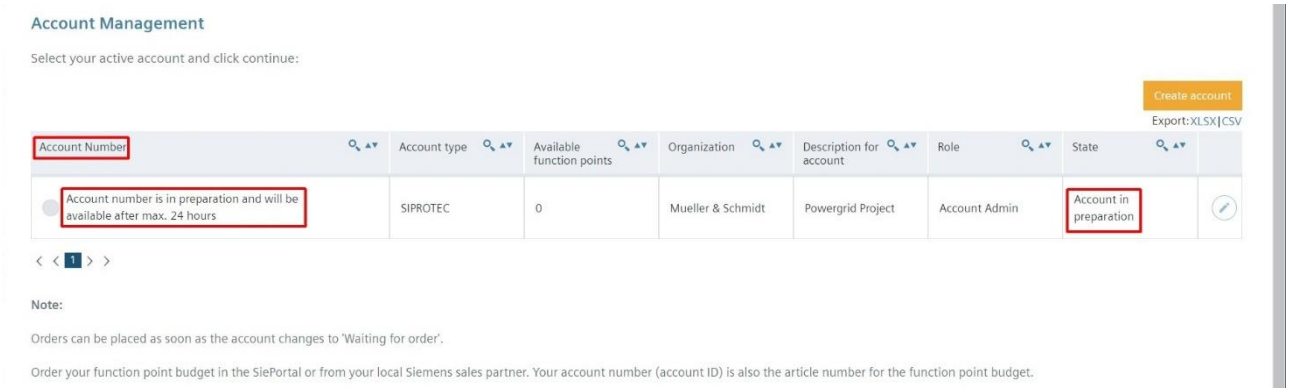
To create another budget account, click the **Create account** button in **Account Management**:

Note: With a SIPROTEC Budget account you generate only SIPROTEC license files and with a SICAM Budget account only SICAM license files. Function Points generally cannot be transferred between different accounts. The account type cannot be changed after creating a budget account!

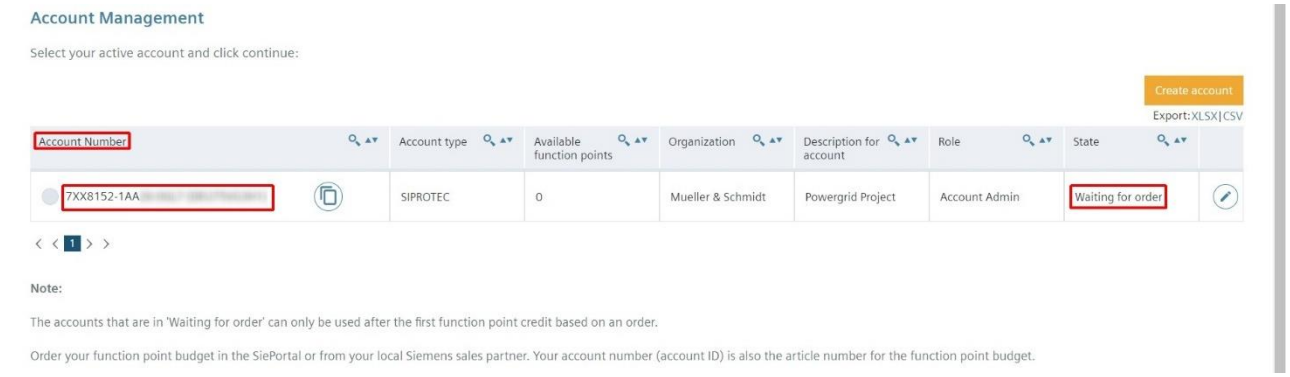
In the **Create Account** dialog, enter the **Account type** „SIPROTEC“ or „SICAM“ and the name of your **organization**. In **Description for account**, write a descriptive name for your budget account. This field is useful to easily distinguish the different accounts you are assigned to. The organization and description text can be changed any time by an account administrator. Click **Create** to create the budget account now:



The new budget account then appears in the **Account Management** table with the status "Account in preparation":



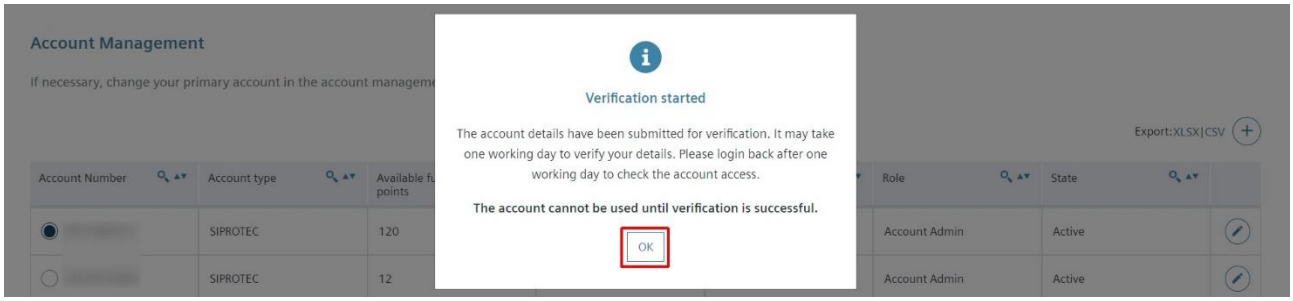
After a maximum of 24 hours, the budget **Account Number** is displayed and the status of the account changes to "Waiting for order". If you have subscribed to E-Mail account notifications, you will be notified of your account's readiness by E-Mail:



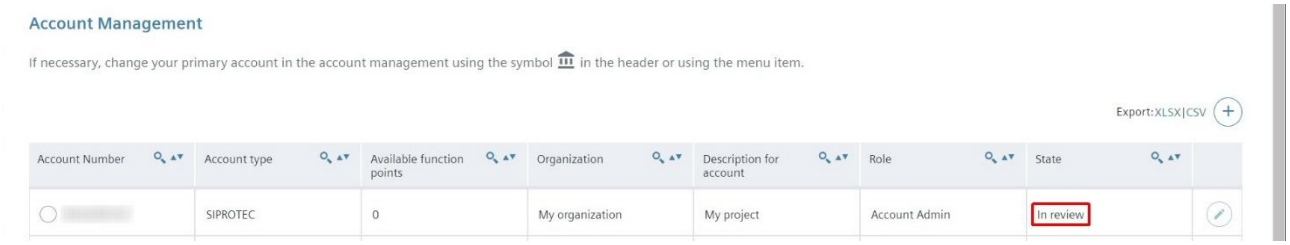
Note the budget **Account number** (Account ID) **7XX8152-1AAxx-xxxx** (SIPROTEC Function Points) or **6MF2752-1AAxx-xxxx** (SICAM Function Points). It is the number of your account and also the account-specific article number you need to order your Function Point budget. The ordering process is described in chapter 2.3.

Once you have ordered Function Points and they have been credited to your budget account, the **State** of the account changes to "Active". You can then select and use the budget account by selecting the account in the **Account Number** column and clicking **Continue** as the active account.

With the budget account creation and once a week, an automatic account verification takes place. Occasionally, the account may need to be verified by a Siemens administrator. In this case, a corresponding message appears and the account changes to the status "Verification". The inspection takes place on the next working day. If it is positive, the account changes back to the previous state:



As long as the verification is carried out, the corresponding state “In review” is displayed. Do not place orders until the status changes to "Active" because no credits can be made.



Note: The creation of new budget accounts is not restricted. Regardless of their role, each user can create new accounts. If the account becomes active by ordering a function point budget, the user who created the account automatically becomes the account administrator for that account. This allows a user to have different roles in different budget accounts.

5.2 Account Transactions

Account transactions are credits or debits of function points related to a specific budget account.

Credits are made by:

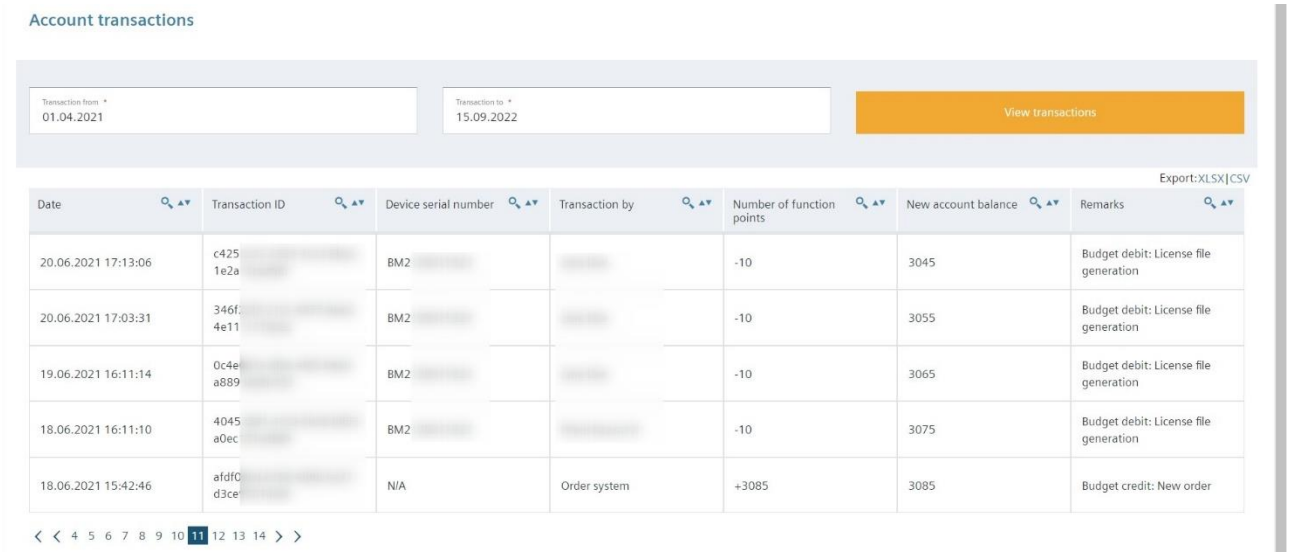
- Ordering function points
- Transfer of function points of a defective device to your budget account as part of a device repair (RMA)
- Automatic correction of a debit due to a failed license file generation
- Manual correction of a transaction by a Siemens administrator

Debits are made by:

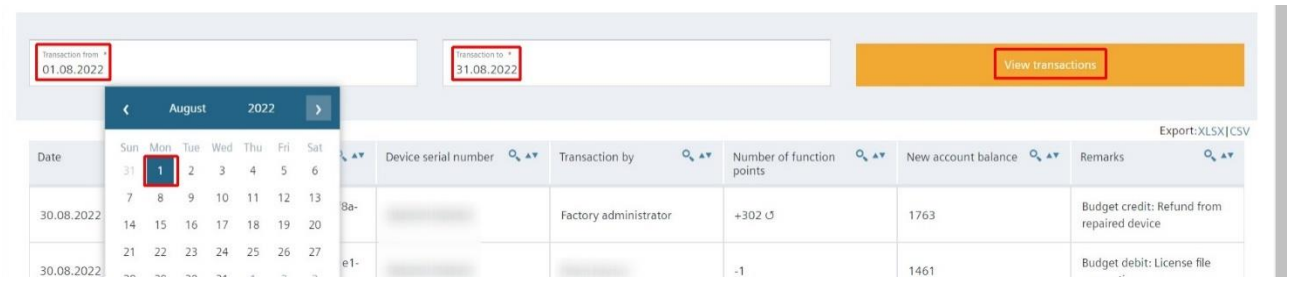
- License file generation
- Manual correction of a transaction by a Siemens administrator

Click on **Account Overview** in the menu ☰ to view the transactions in your budget account. The transactions always refer to the active account shown in the header:

The table **Account transactions** contains all credits and debits in your budget account. The default is sorting by date. The most recent entries are displayed at the top:



The transactions of the last four weeks are displayed by default. By changing the start and end dates in **Transaction From** and **Transaction To** and **clicking Show Transactions**, a changed time range is shown:



5.3 Invoicing

Invoicing takes place on a daily basis with the consumption of function points, i.e. with the generation of license files. An invoice summarizes all transactions of a day that relate to a function point budget purchase order.

If there are several function point orders for a budget account, the oldest budget is used up first. It can happen that the oldest budget is exhausted and the remaining function points are taken from the next oldest budget. This completes the order of the oldest budget and in this case two invoices are sent.

After three years, function points that have not been consumed will also be invoiced based on the order date. However, these do not expire and can be used without restriction for the generation of license files.

6 User Management

6.1 Introduction

In the User Management, the users of a budget account are administered. Four different user roles are available.

6.1.1 Account Visitor

If a user creates a new budget account, he first receives the role "Account Visitor". The account can only be used for generating license files as soon as a function point credit has been made on the basis of an order for function points. When function points have been credited, the account changes from "Waiting for Order" to "Active" and the user who created the account automatically receives the role "Account Administrator".

6.1.2 Account Administrator

The Account Administrator has full access to the budget account. He can generate license files, view account transactions, make changes to the budget account, add more account users, change their role, or delete account users.

6.1.3 Account User

The Account User generates license files and can view the account transactions.

6.1.4 Account Viewer

The Account Viewer can view the account transactions.

6.1.5 Summary

Table: Role based access

Activity	Account Administrator	Account User	Account Viewer	Account Visitor
Create budget account	yes	yes	yes	yes
View account details	yes	yes	yes	no
Edit account details	yes	no	no	no
Show account transactions	yes	yes	yes	no
Generate and download license files	yes	yes	no	no
Create/change/delete account users	yes	no	no	no

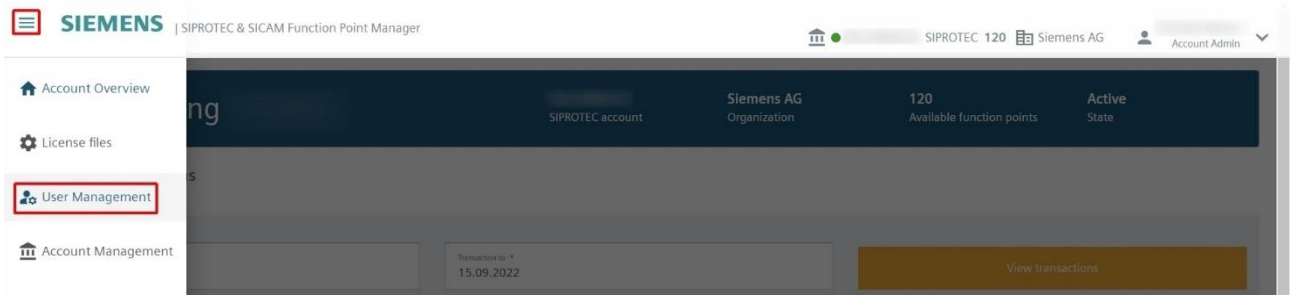
Up to 50 users can be assigned to a budget account. it is ensured that at least one user always has the account administrator role by preventing the deletion of the last remaining account administrator.

Note: The creation of new budget accounts is not restricted. Regardless of their role, each user can create new accounts. If the account becomes active by ordering a function point budget, the user who created the account automatically becomes the account administrator for that account. This allows a user to have different roles in different budget accounts.

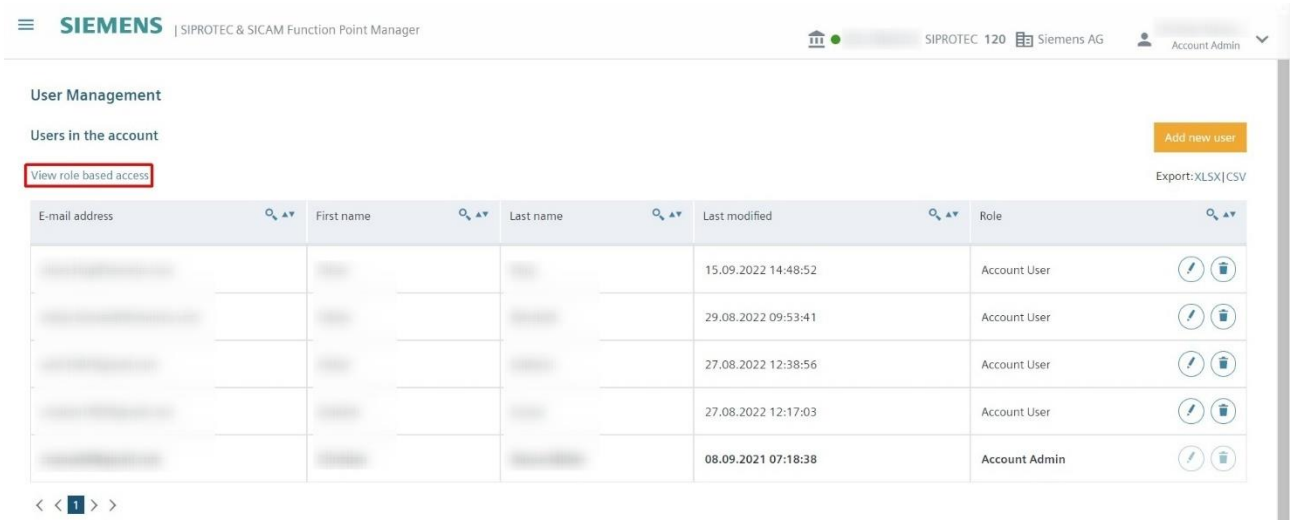
6.2 Administration

6.2.1 Overview

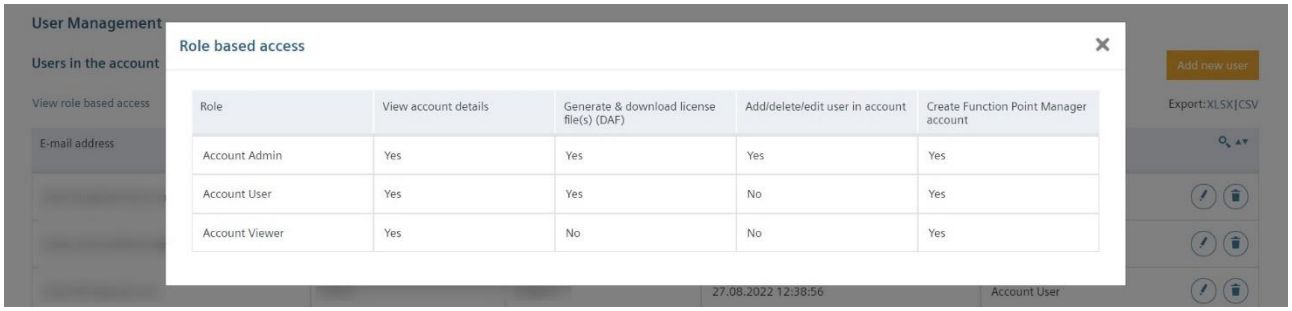
The User Management can only be accessed by users with the Account Administrator role. On the menu ☰, click **User Management**:



The table **Users in the account** contains all users of the active budget account. The columns contain the **E-mail address**, **First** and **Last name**, the date the user account was **Last modified**, and the User **Role**. Buttons in the last column can be used to change the user role or remove a user from the budget account:

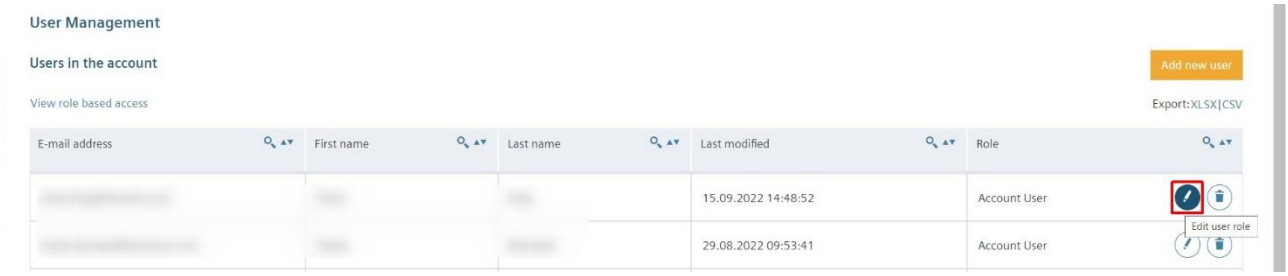


Click **View role based access** to get an overview of the different roles and their permissions:

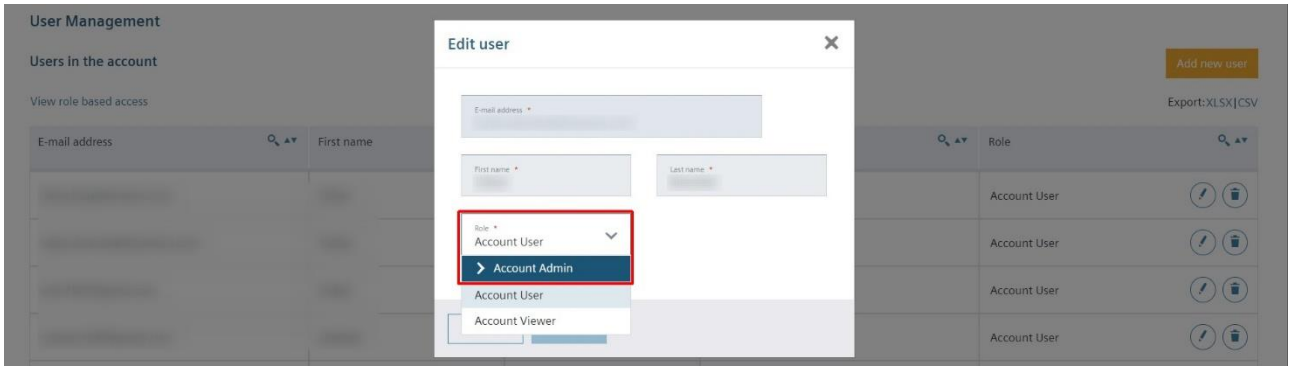


6.2.2 Edit User Role

Click **Edit user role** in the desired row:



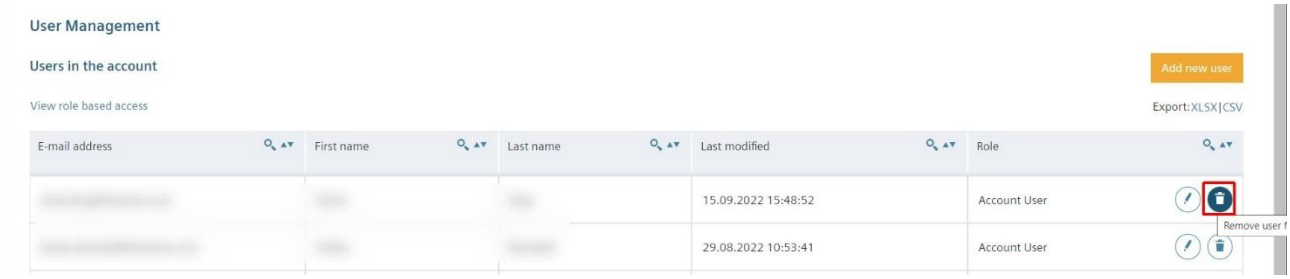
In **Edit user**, select the new **Role** to be assigned and click **Submit**:



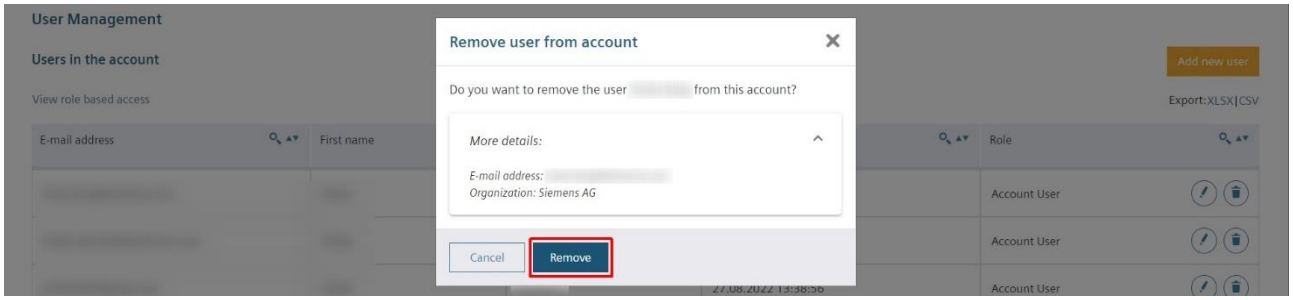
6.2.3 Remove User

If you want to remove a user from the active budget account, only their link to the account is removed. If the user is assigned to other budget accounts, these assignments are retained. In any case, his user registration with the Function Point Manager will be retained. A user can be removed from the whole application by a Siemens administrator on request.

To remove a user from the active budget account, click **Remove user from account** in the desired row:



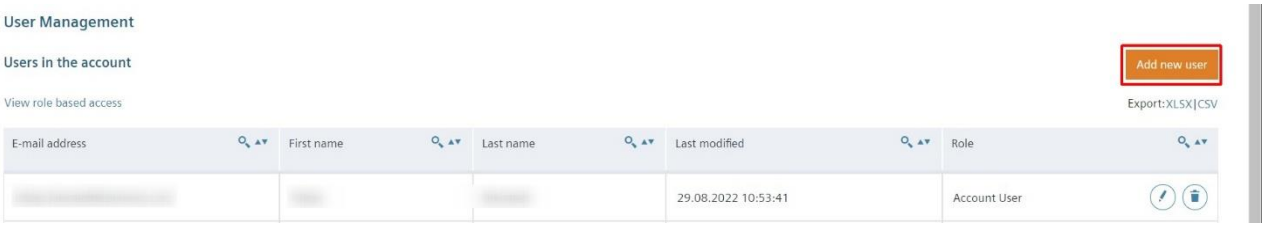
Confirm the action with **Remove**:



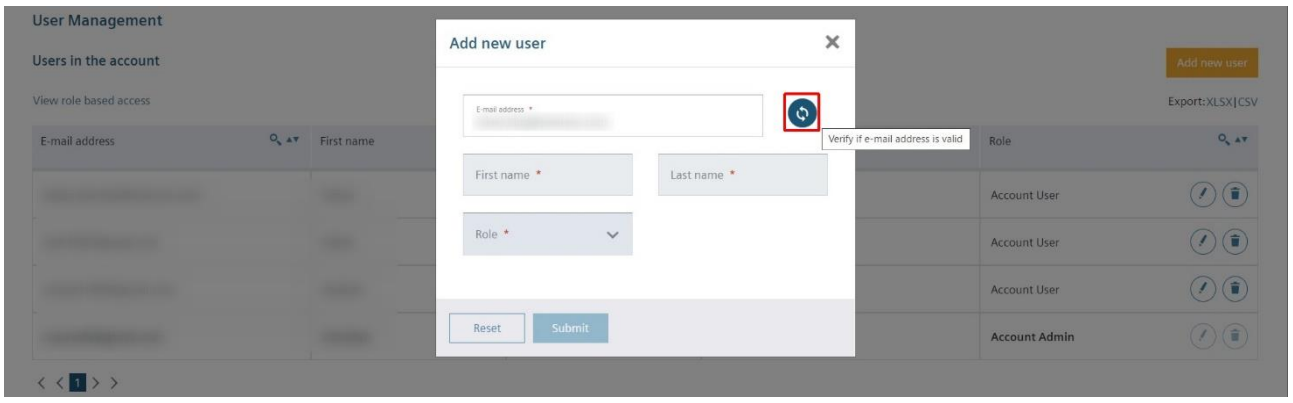
Note: An account administrator cannot remove himself from the budget account. To transfer a budget account to another account administrator, add a second account administrator to the account. This second administrator can then remove the first administrator and has thus full responsibility for the budget account. In principle, it is recommended that you always set up a delegate so that it can become active when the first administrator is unavailable.

6.2.4 Add User

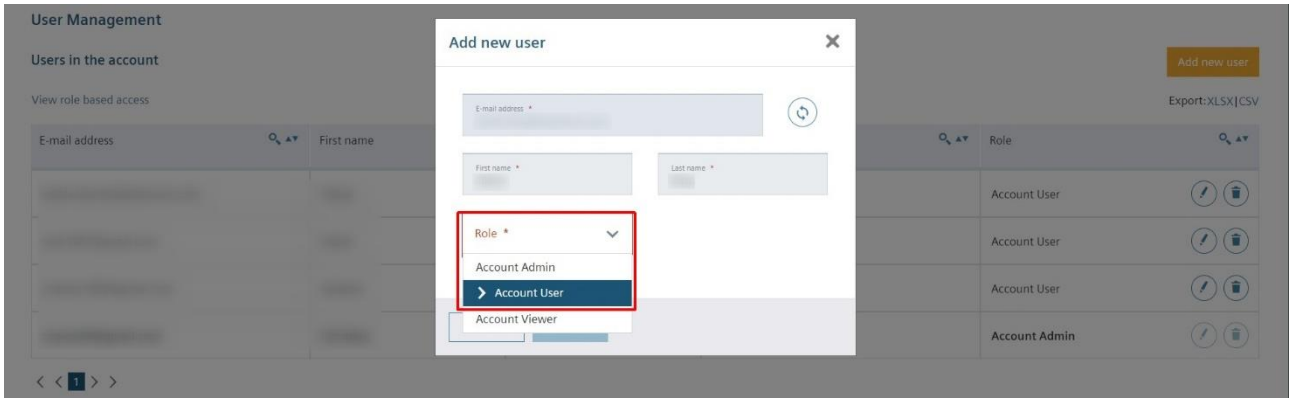
To add a user to the active budget account, make sure that this user has registered in the Function Point Manager (Chapter 2.1) and click **Add new user**:



In the **Add new user,** enter the user's **E-mail address** and click **Verify if e-mail address is valid**:

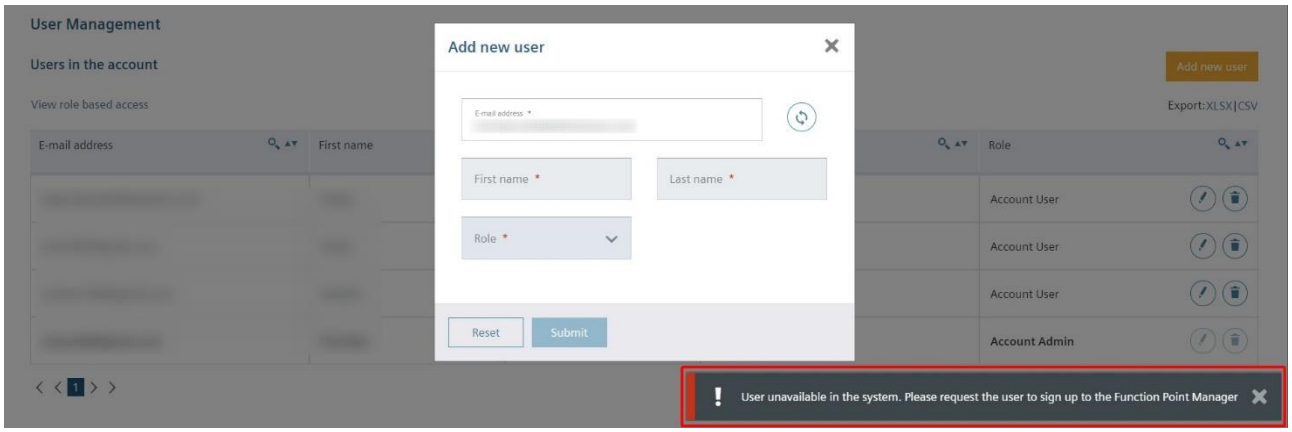


If the user is found in the system, their first and last name is displayed. Select the desired user **Role** and click **Submit:**



Thus, the user has been added to the active user account and appears in the table **Users in the account**. From now on, after logging in, this user sees the budget account in the account management and can use it according to his role.

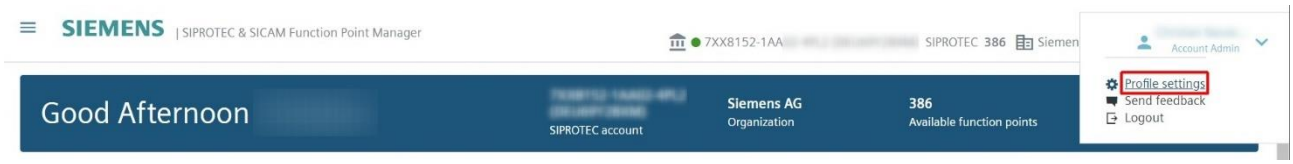
If the user was not found in the system because he did not register in the Function Point Manager, the addition is rejected with an error message:



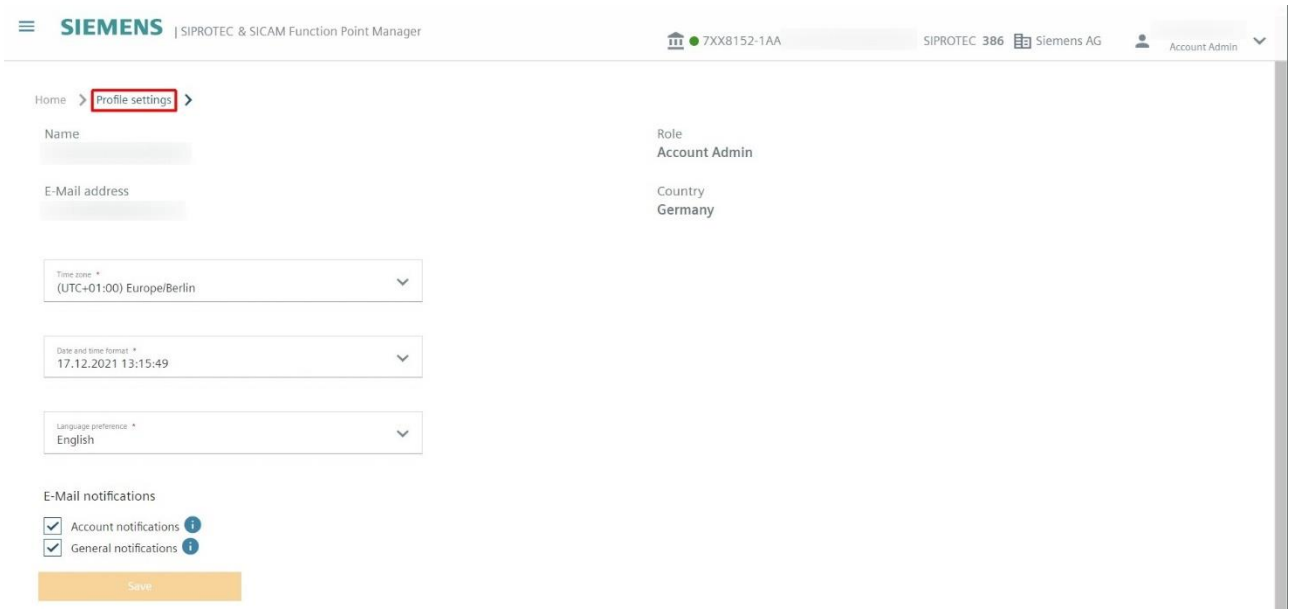
7 Settings and other Functions

7.1 Profile Settings

In your user profile, you can make presettings that take effect each time you log in. You can configure the display language, preferred time zone, and timestamp display here. In the header menu on the right, click **Profile settings:**



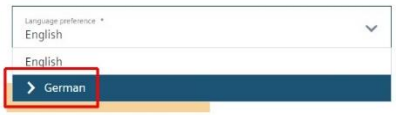
The **Profile settings** page opens:



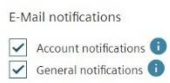
Timestamps are always stored in relation to UTC+00:00. Use the **Time zone** setting to select the desired time zone for displaying dates and times. The timestamps are then converted according to your time zone:

Use **Date and time format** to select the desired display format of dates and times:

Use **Language preference** to select the desired display language:



You can subscribe or unsubscribe from **E-Mail notifications**. If you want to be notified about the provisioning of your new budget account, budget debits through license file generations, or other account activities, enable **Account notifications**. To receive general information, such as release of new Function Point Manager functions or information about planned shutdowns due to system maintenance, activate **General notifications**. You can unsubscribe from E-Mail notifications by deselecting the corresponding checkbox:



With **Save**, the settings take effect and are applied to your user profile:

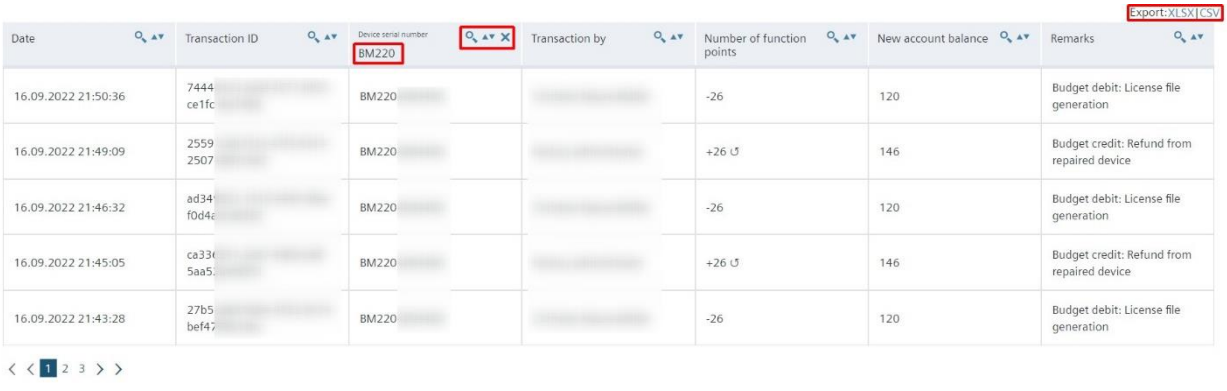
7.2 Table Functions

The administration of the Function Point Manager is usually done via tables. In each table header, the columns contain filter input fields that can be used to filter or search for entries. For example, if you click in table **Account transactions** on the magnifying glass symbol 🔍 in the **Device serial number** column and enter "BM22", only devices whose serial number begins with "BM22", thus devices which have been manufactured in 2022, are displayed. If you enter another character, e.g. "BM220", only devices whose serial numbers begin with "BM220" etc. are displayed. If filtering is carried out in additional columns in this way, the number of hits is further restricted. Clicking ✕ resets the filter in each column.

Note: Wildcards are not supported for filters.

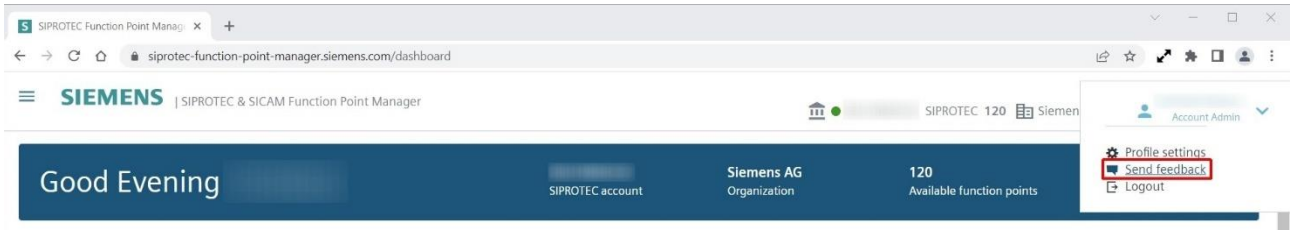
In each column, next to the magnifying glass icon, there are two arrows that symbolize the ascending and descending sorting of the table rows according to the data in the selected table column. The down arrow ▼ represents the ascending sorting and the up arrow ▲ represents the descending sorting. For text fields, this corresponds to alphabetical sorting, for number fields to mathematical sorting by the number, and for time stamps, to temporal sorting.

In order to be able to process the table data further, each table can be exported via **Export: XLSX** to the format "Microsoft Excel" or via **Export: CSV** to the format "Comma Separated Values" (text file in which the fields are separated by commas). Any filters set in the table row are ignored during export, the complete unfiltered table is always exported:

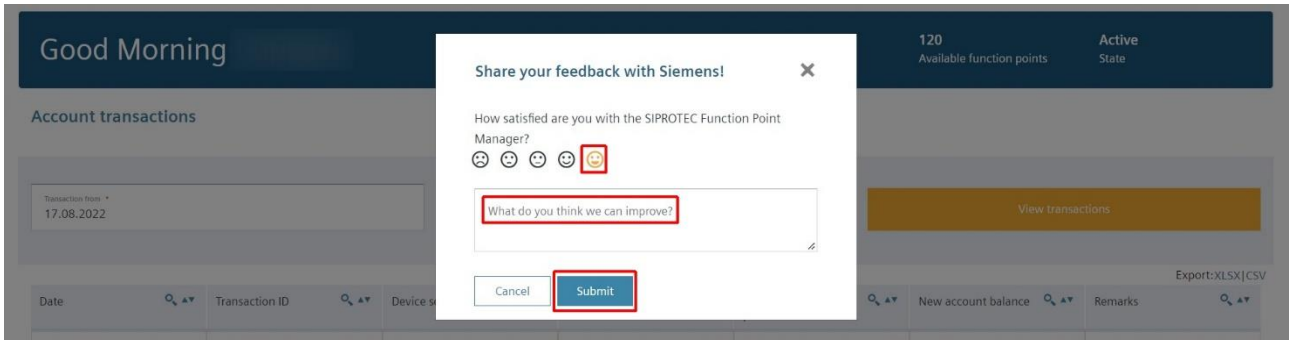


7.3 Feedback

Via the feedback function, you have the possibility to submit a rating of the Function Point Manager in the form of five categories symbolized by emojis. You can also leave a text message to Siemens to point out errors, make suggestions for improvement or express your satisfaction with the application. To leave a review, click **Send feedback** in the header menu on the right:



In the dialog box **Share your feedback with Siemens!**, click on one of five emojis that represent your overall satisfaction with the Function Point Manager. From left to right, the emojis stand for very dissatisfied, dissatisfied, neutral, satisfied and very satisfied. In the text box **What do you think we can improve?** you can enter a free text. The field can also remain empty. By **Submit** you send the feedback:



Thank you for taking advantage of this opportunity and actively contributing to improving the Function Point Manager!

8 Frequently Asked Questions

8.1 Login, User Registration, Siemens ID

Q: Which webbrowsers are supported?

A: The Function Point Manager requires a recent web browser version of Google Chrome, Microsoft Edge or Mozilla Firefox.

Q: Can I use the Function Point Manager with my mobile phone?

A: Yes. The Function Point Manager is a web-based application, specifically optimized for use on desktop computers and tablets. On mobile phones, the Function Point Manager can be used as well, but with limitations due to the lower screen resolution.

Q: Why does adding a user to a budget account fail?

A: Assure that the user has registered with the Function Point Manager. User registration is a prerequisite for adding a user to an existing budget account.

Q: I forgot my password. What can I do?

A: In the login dialog, click **Don't remember your password** and follow the instructions.

Q: How can I change the Siemens ID multi-factor authentication method or switch to another mobile phone?

A: Login to the Siemens ID Portal uss.login.siemens.com with E-Mail address and password and click **Multi-Factor-Authentication**. Confirm your identity with your mobile phone. If you no longer have access to your mobile phone, click **Try another method**. There you can confirm your identity with the recovery code you received when you registered with the Function Point Manager. If you no longer have the recovery code contact the customer care center. In this case, your user account can be reset.

Q: In which countries can the Function Point Manager be used?

A: The Function Point Manager is released in over 50 countries. The current list of released countries can be retrieved in the SiePortal.

Q: Who is allowed to register with the Function Point Manager?

A: Anyone is allowed to register for the Function Point Manager as long as the customer organization is in the released country and the downloads of license files are made only to the released countries. The current list of released countries can be retrieved in the SiePortal.

8.2 Ordering, Invoicing

Q: When will I receive the invoice for the ordered function point budget?

A: Function points are invoiced when they are debited from the budget account through license file generation. All account transactions of a day are combined in one invoice position.

Q: Why do I receive more than one invoice a day?

Basically, all license file generations from one day are summarized in one invoice. If there are more then one open function point orders for a budget account, the oldest order is debited first. It can happen that the oldest budget is exhausted and the remaining function points are taken from the next oldest order. This completes the order of the oldest budget and invoices are sent for both orders.

Q: What is the expiration date of my function point budget?

A: The Function point budget do not expire. But unused points will be invoiced three years after the order has been placed. They can still be used for generating license files.

Q: Can I receive a total invoice of the entire function point budget directly with the credit to my budget account?

A: That is not possible. Invoices can only be created after the service has been provided. Function points are invoiced when they are debited from the budget account through license file generation.

8.3 Budget Account, User Management

Q: I have created a budget account and it shows the status "Account in preparation". What do I have to do now?

A: Please wait until the account changes to the status "Waiting for order". This takes a maximum of 24 hours. If you have subscribed to E-Mail notifications, type “Account notifications”, you will receive an E-Mail when the account is ready for orders. The account-specific article number is then displayed and you can order function points.

Q: I have created a budget account and it shows now "Waiting for order". What do I have to do now?

A: You can use your budget account once you have ordered function points and the points have been credited to your account. Orders can be placed at your local sales partner or in the SiePortal. The order is usually processed within two working days.

Q: When does my budget account become active? When can I use the budget account?

A: You can use your budget account once you have ordered function points and the points have been credited to your account. Orders can be placed at your local sales partner or in the SiePortal. The order is usually processed within two working days.

Q: What do the two budget account numbers in my SIPROTEC account mean?

A: The budget account number for existing SIPROTEC accounts has been changed with release V2.00 of the Function Point Manager. The new account number is the number of your account and also the account-specific article number **7XX8152-1AAxx-xxxx** (for SIPROTEC Function Points) or **6MF2752-1AAxx-xxxx** (for SICAM Function Points). The old account number (in brackets) can still be used for a limited transitional period with the fix article number **7XX8152-1AA00**. Siemens recommends using only the new account numbers, as the procedure is less complicated and less error-prone. The old account number will no longer be supported during 2023. Budget accounts created after the introduction of the Function Point Manager V2.00 only have the new account number.

Q: Do I need my own budget account to be added to another account?

A: No, registering as a user of the Function Point Manager is sufficient. You do not need to create your own account. You can be invited to use another account by the account administrator of this account.

Q: Can I share my budget account with another user?

A: Yes, up to 50 users can share a budget account. It is required that each user registers himself for the Function Point Manager. An account administrator then adds these users to the desired account. The user roles account administrator, account user and account viewer are supported.

Q: Can my organization get more than one budget account?

A: Yes. Each user can have or use up to 20 budget accounts.

Q: Can I transfer function points from one budget account to another?

A: No. Function points of a budget account are tied to orders and cannot be transferred to other accounts.

Q: Can I transfer function points from one SIPROTEC 5 or SICAM device to another device?

A: No. Function points can not be removed from a device.

Q: Can I refund function points from a repaired SIPROTEC 5 device?

A: Yes. During the RMA process, you can choose to have some or all of the function points credited back to your account after you send in the device for repair.

Q: A user is the only account administrator of a budget account. This account should be transferred to another user. How to proceed?

A: After the new administrator registers with the Function Point Manager, the old account administrator adds it to the budget account with the Account Administrator role. The new administrator can then remove the old one from the budget account. In principle, it is recommended that you always set up a delegate so that he or she can take action if the first administrator is unable to access.

Q: The only account administrator of a budget account is sick or has left the company. So how can my organization access the account?

A: Kindly contact the Customer Support Center. With the help of the local sales partner and Customer Care, Siemens will create a new account administrator.

Q: Why can't I access the User Management page?

A: Check your user role in the budget account. The User Management is only accessible to account administrators.

Q: I registered some time ago and created a budget account. Why was the account closed?

A: Siemens reserves the right to close accounts that have never assumed the status "active" after 6 months of inactivity without ordering. Please create a new budget account if you need it and your account has been closed. Active accounts are not affected and will remain open without restriction, regardless of the Function Point budget number.

8.4 License Files

Q: How long does it take until the license file is generated?

A: Typically, it needs less then 30 seconds, max. 240 seconds.

Q: Can I download a license file multiple times?

A: Yes, the number of downloads is not restricted.

Q: Can I download multiple license files?

A: Yes, you can select max. 10 license files and download them all at once.

Q: Can I interrupt a license file generation?

A: No. Once the license file generation process has been started, it cannot be paused or stopped.

Q: Can I revoke a license file and get a credit of the function points?

A: No. Once the license file has been generated, it can not be revoked.

Q: How long is a license file valid?

A: License files do not have an expiration date and are valid without restriction.

Q: The SIPROTEC 5 device does not import the license file. What could be the reason?

A: Make sure that the serial number of the license file name matches the device serial number. Also the license date of the new license must be younger ore the same than the license date in the device.

Q: In addition to increasing the function points for a SIPROTEC 5 device, can I also include other function extensions, such as changing the Significant properties or extending the Integrated Ethernet Port for a specific device?

A: No, the Function Point Manager only supports functional enhancements via function points for SIPROTEC 5 devices.

Q: The signature check of my SICAM license fails. What could be the root cause?

A: Please make sure that the device time of your SICAM device is set correctly.

Published by
Siemens AG 2022, 17.11.2022, V2.01

Smart Infrastructure
Electrification & Automation
Humboldtstr. 59
90459 Nuremberg, Germany

siemens.com/siprotec

Our Customer Support Center
provides a 24-hour service.

E-Mail:
energy.automation@siemens.com

For all products using security features of OpenSSL the following shall apply:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

This product includes software written by Tim Hudson (tjh@cryptsoft.com)

This product includes software developed by Bodo Moeller.