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Industry Online Support

Home

Connecting SINEMA RC to UMC

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<https://support.industry.siemens.com/cs/ww/en/view/109780337>

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1 Introduction

1.1 Overview

Efficient user management is an essential part of every security concept. The User Management Component (UMC) enables the system-wide, central maintenance of users with an optional connection to Microsoft Active Directory. Person-specific assignment of roles and permissions minimizes maintenance effort while achieving a high level of transparency. Central user management thus represents the basis for efficient, thorough administration of personalized access permissions within the system. This can significantly reduce security risks.

UMC allows the establishment of central user management. This means that you can define and manage users and user groups across software and devices. Users and user groups can also be transferred from a Microsoft Active Directory (AD).

You can import the global users and user groups into the various applications or use them as temporary users.

This document builds on the base document under the same article ID. In the base document, you will find a description of the installation and setup of the UMC.

In this document, you will learn how to connect a SINEMA RC server to UMC and how to log in with a UMC or AD user.

Licensing

A separate license is required to use SINEMA RC with a connection to UMC (User Management Component). If no license is available, a 14-day trial license can be activated.

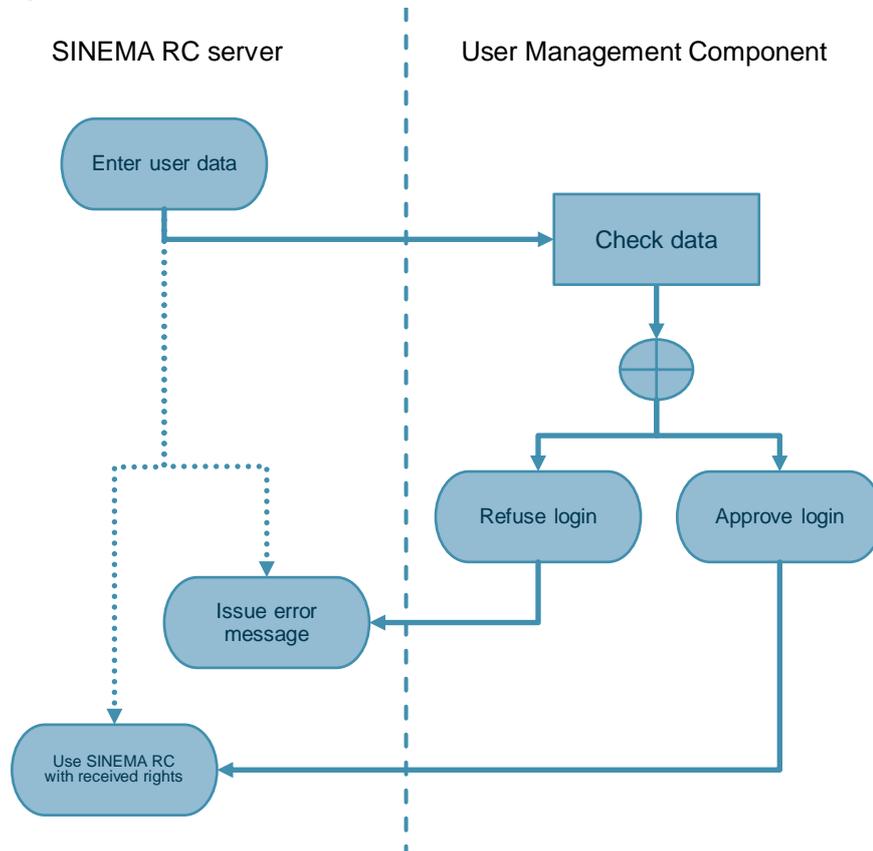
Table 1-1

Product name	Function	Article number
SINEMA RC UMC license	License to activate the connection to the UMC server	6GK1724-2VH03-0BV0

1.2 Principle of Operation

The UMC Server receives the login requests of the connected applications and checks the entered user data. Then the application receives a response whether the logon credentials are correct and the logon is approved.

Figure 1-1



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Note

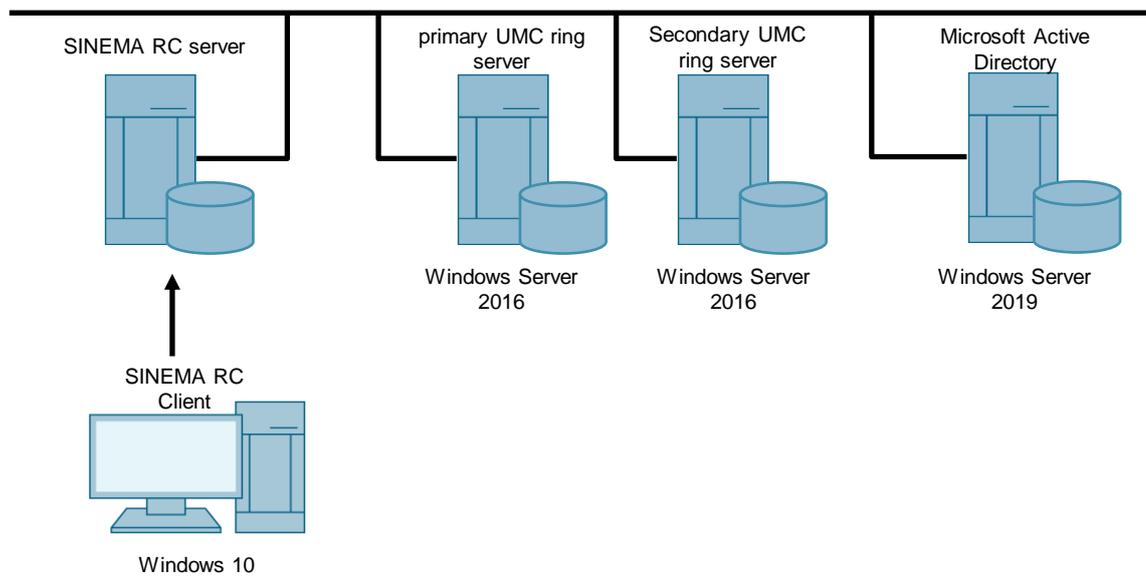
The exchange takes place directly between the SINEMA RC server and the UMC server.

2 Engineering

2.1 Hardware setup

The structure used in this description is shown in the following image.

Figure 2-1



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Requirement

This application example builds on the base document. Ensure that the UMC and Microsoft AD are set up appropriately.

Example users and groups

The following UMC users with their associated groups are used in the example.

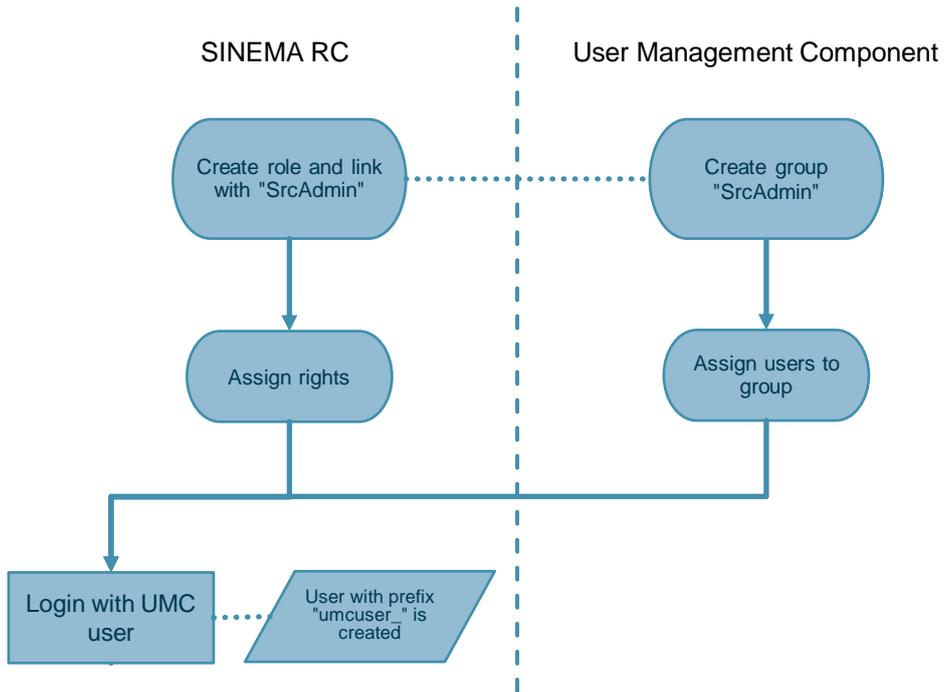
Table 2-1

Users	Groups
Admin	Administrator (UMC)
MYCORP\John.Doe	Administrators, Domain Admins
MYCORP\UmcUser	UM_Users, Domain Users
MYCORP\ServiceEngineer	Engineers, Domain Users
MYCORP\Administrator	Administrators, Domain Admins
Bob	SrcAdmin (UMC)

2.2 Adjusting settings in UMC

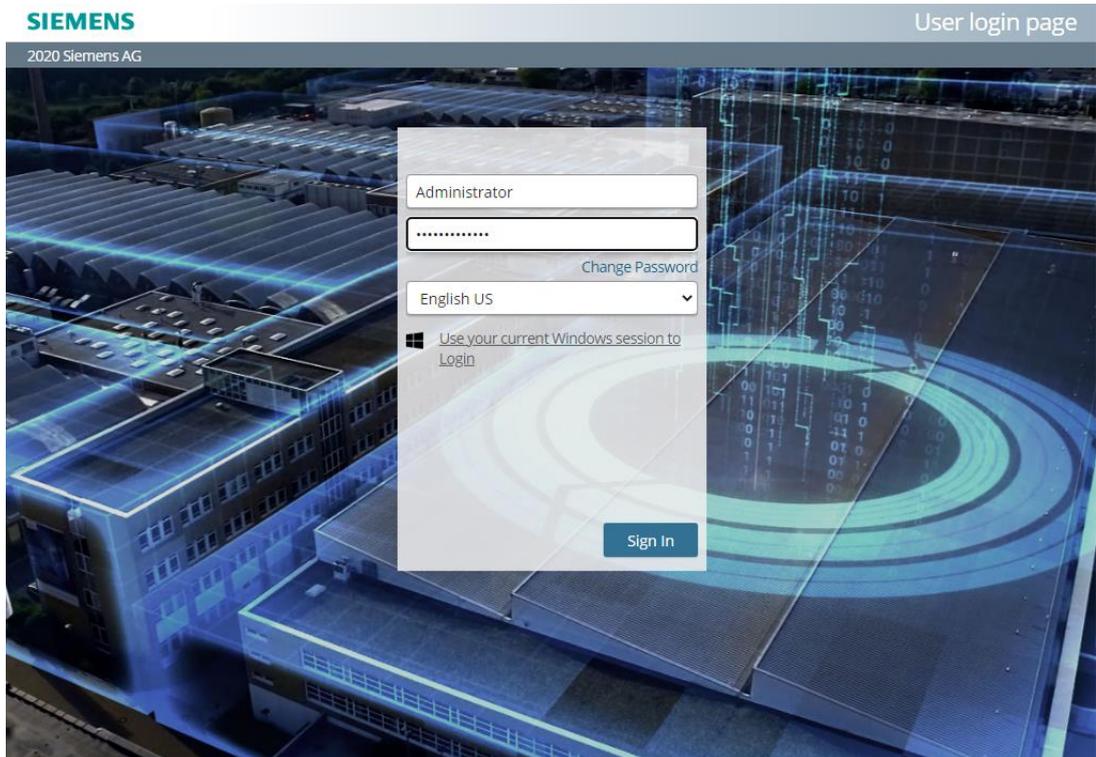
To use a UMC user in SINEMA RC, the user must be a member of a special group that is created in the UMC and linked to a role in SINEMA RC. The user is automatically created with the prefix "umcuser_" after logging into the SINEMA RC server. If a domain user is logged in, the domain is also integrated in the username. This will look like "umcuser_MYCORP_UmcUser", for example.

Figure 2-2



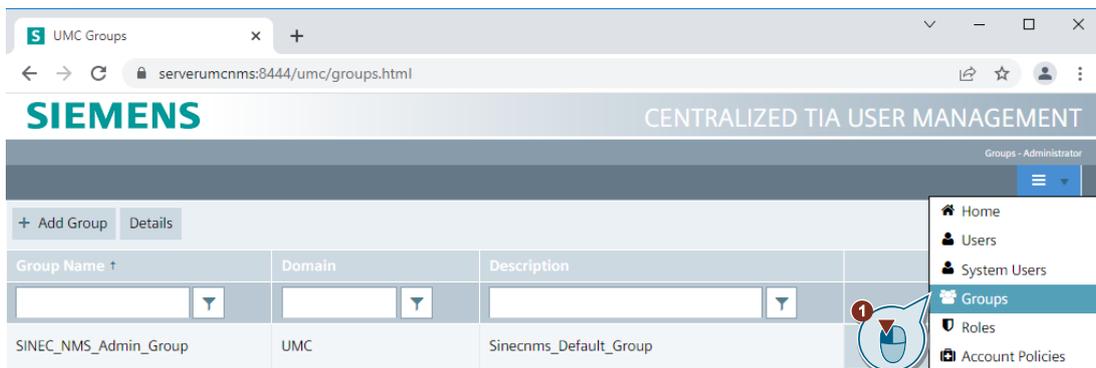
Open Web Based Management (WBM) of UMC

1. Open any browser on the primary UMC ring server. In the browser, enter "https://localhost:<Port>/UMC" or "https://<IP address>:<Port>/UMC".
If you used the SINEMA RC or SINEC NMS installation for the UMC ring server, the port is "8444".
2. Sign in with the login credentials of the user that you created when installing UMC as an administrator.

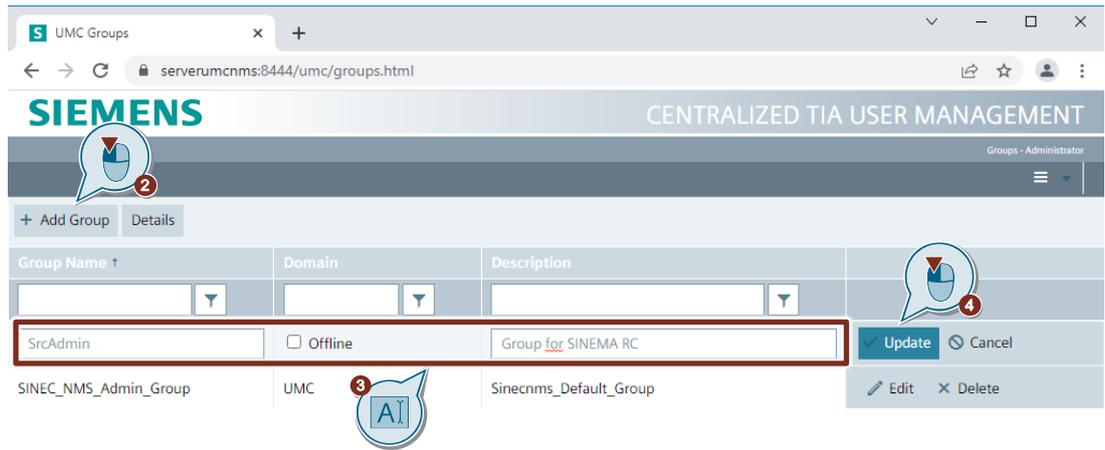


Create a group

1. The assignment of permissions for access to SINEMA RC is done via groups. Open the "Groups" menu in UMC.

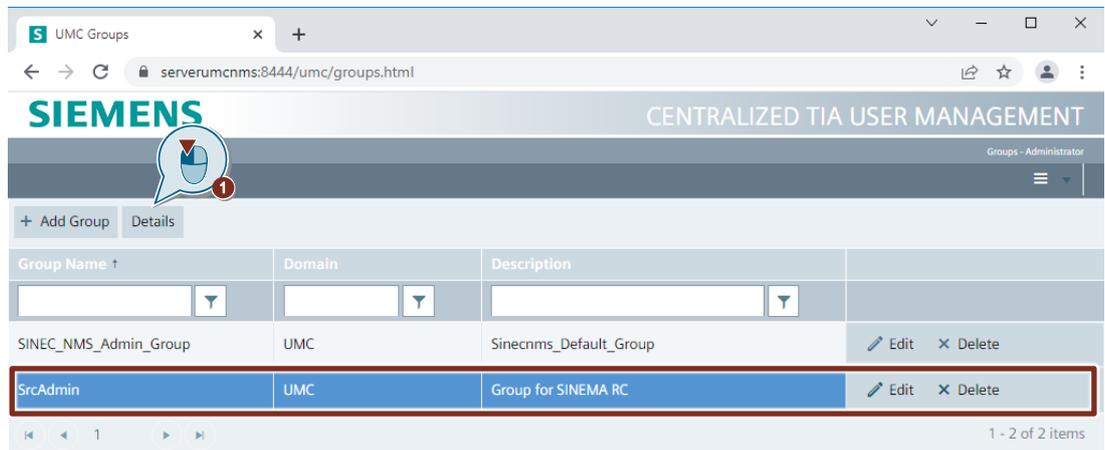


2. Click "Add Group" to create a new group.
3. Enter a name and a description for the group, e. g. "SrcAdmin".
4. Click "Update" to apply the settings.



Assign users to group

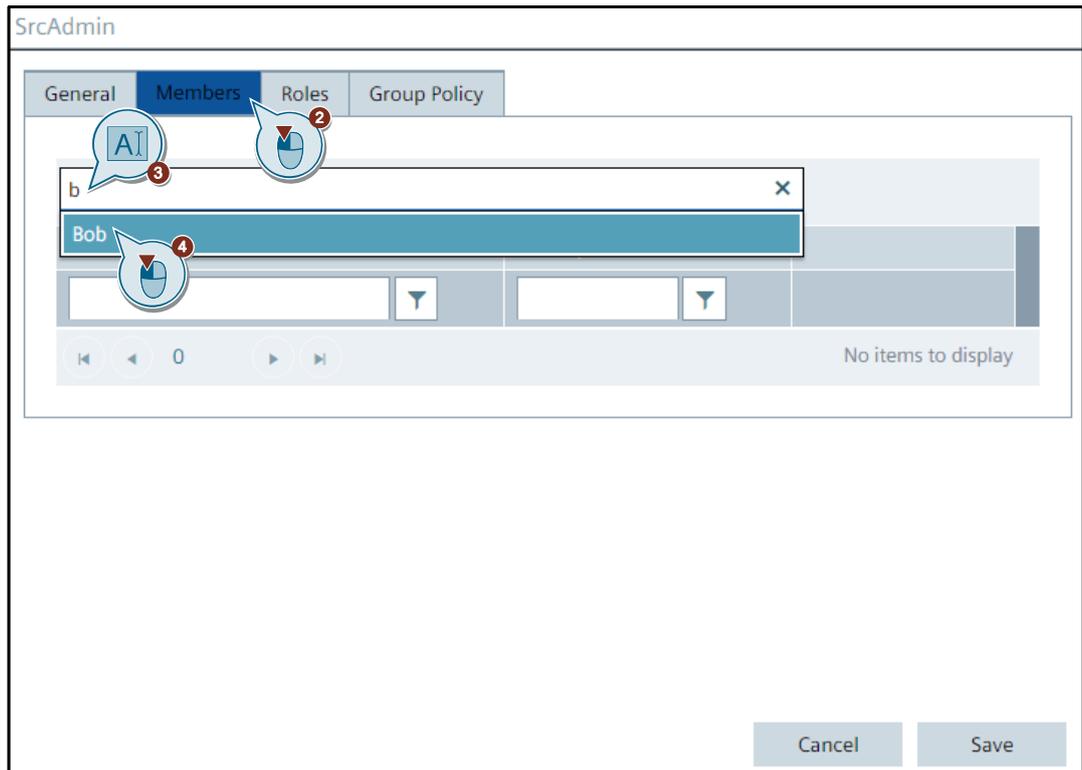
1. Select the newly created group and click the "Details" button. The detail view of the group will open.



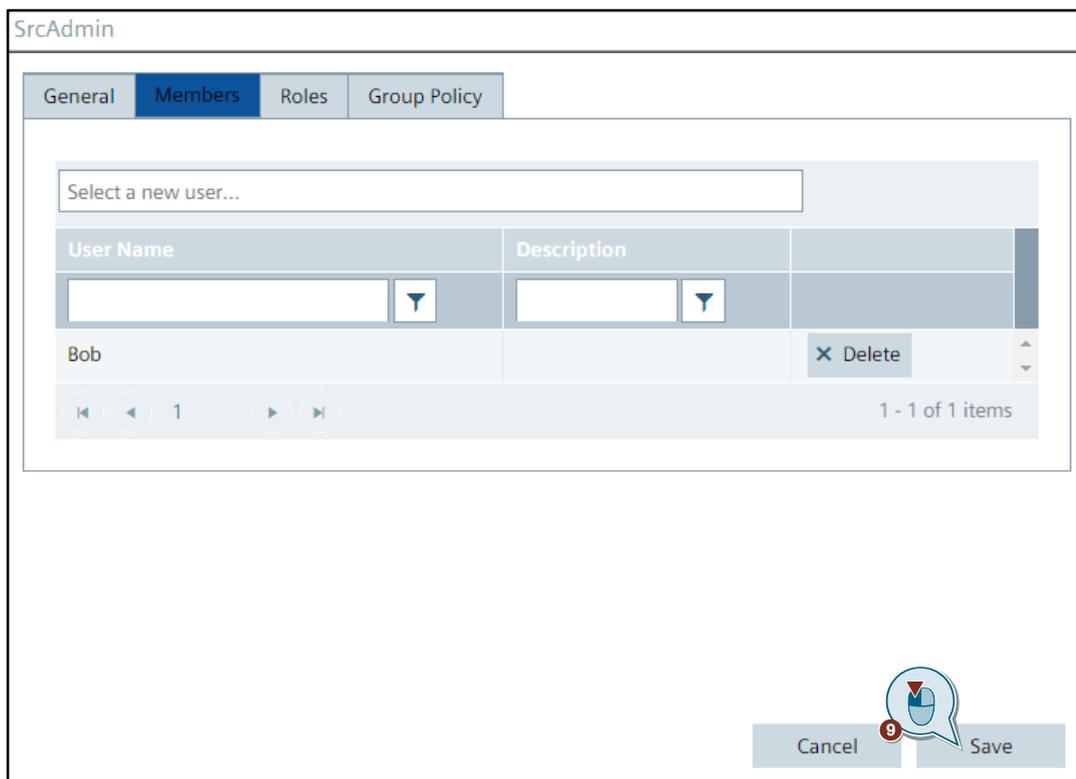
2. Open the "Members" tab.
All current group members will be displayed.
3. Enter the first letters of a user who will later need to have administrative access to the SINEMA RC server.
All users with the initial letters you entered will be displayed in a list.
4. Select the desired user to assign it to the group as a group member.

Note

You can assign additional users to the group as group members.



- Click "Save" to save the group members you have entered.



- If you need additional SINEMA RC users who should not have administrative access, create additional groups and assign the desired members to them.

Result

The modifications in the UMC ring server are complete.

Note

To use domain users from an AD, import the domain group to which the domain user is assigned in the AD; it will be imported into UMC. Instructions on how to do this can be found, for example, in the base document under the same article ID.

The imported domain groups can then be created in SINEMA RC and assigned a role (see [Create role](#)).

2.3 Setting up a SINEMA Remote Connect server

This application example assumes that the basic setup of the SINEMA RC server is complete and UMC already installed.

Only the UMC-related settings in the SINEMA RC server will be described.

Configure "UMC" service

1. Open a new tab in your browser. Log in to the SINEMA RC server via the Web Based Management.
The user must have administrator rights.
2. Open the "Services > UMC" menu.
3. Tick the "UMC server" box.
4. Enter the IP address and the port of the UMC server. If you installed UMC along with the SINEC NMS setup, the default port is "8444".
5. Click the "Save" button to apply the settings.

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2/23/2022, 10:43:59 AM (UTC +01:00) ☰

- System
- Remote Connections
- User Accounts
- Services
 - API
 - UMC**
 - Upload Server
 - Syslog Client
 - Debug Login
- Security
- My Account

UMC Settings

UMC server

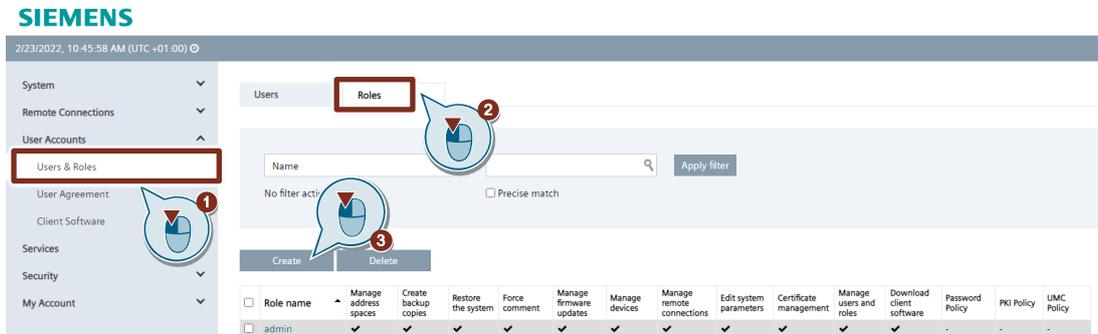
* UMC server IP address: 172.16.1.70

* UMC server port: 8444

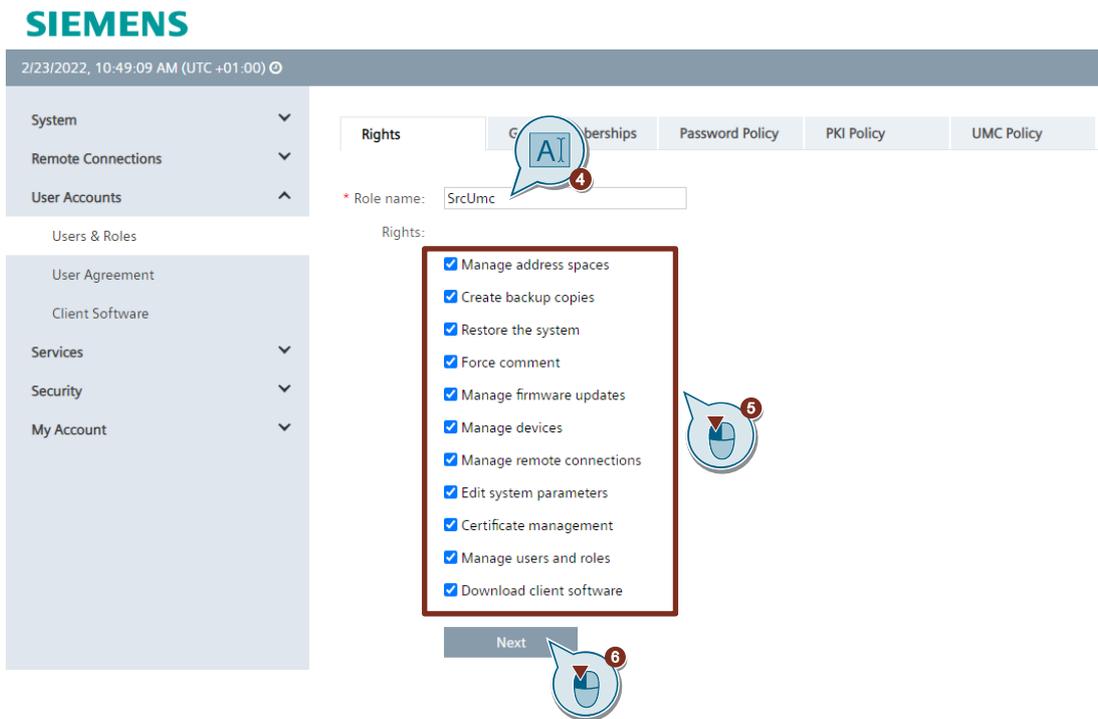
Save

Create role

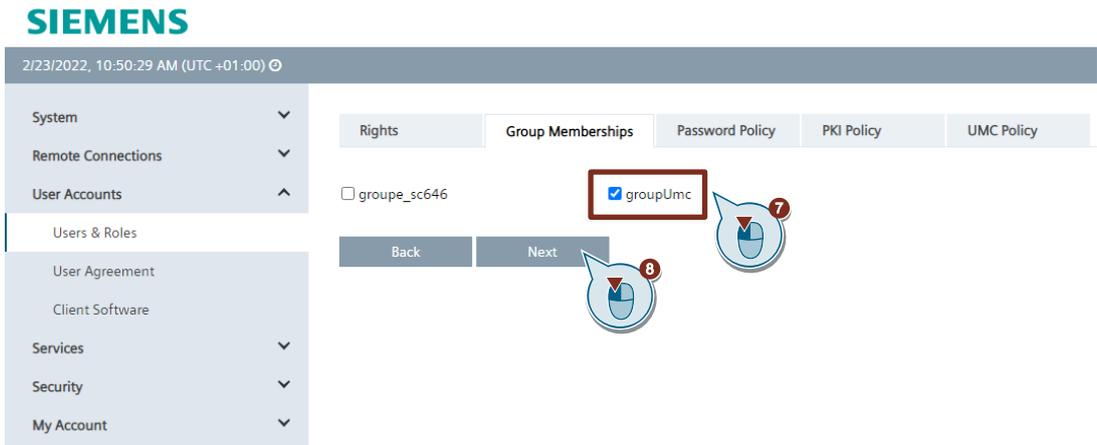
1. Open the "User Accounts > Users & Roles" menu.
2. Open the "Roles" tab.
3. Click the "Create" button to create a new role.



4. Enter a meaningful name for the role, e. g. "SrcUmc".
5. Select the desired rights for the UMC users to receive.
6. Click on "Next".



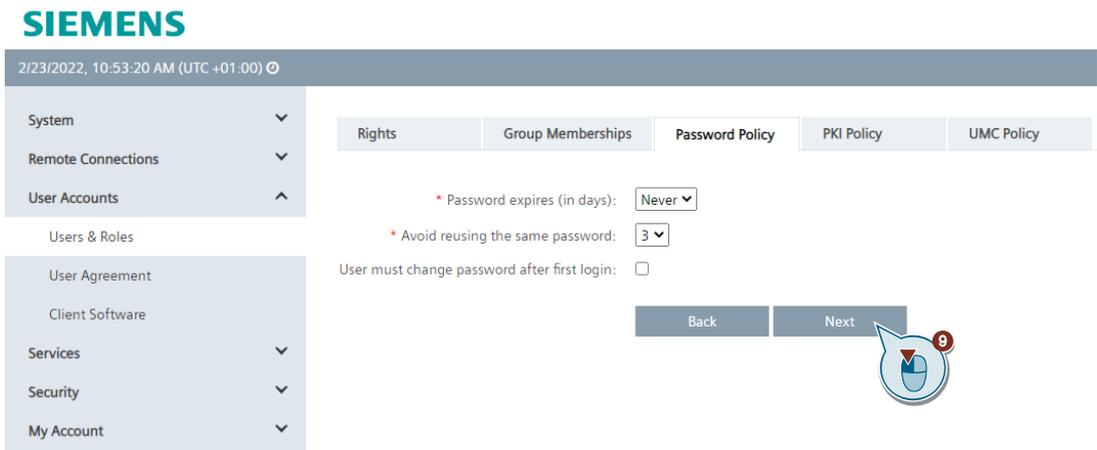
7. If groups are present, you can add the role to a group.
8. Click on "Next".



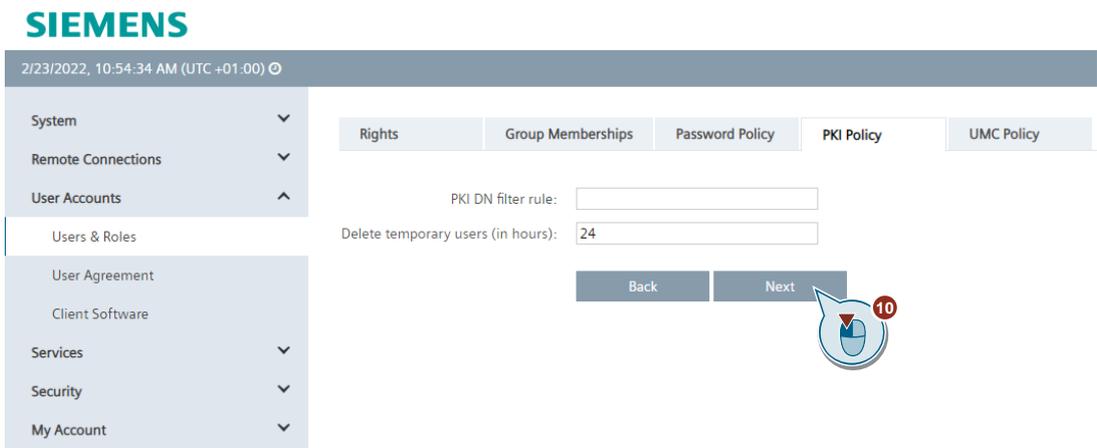
Note

We demonstrate how to set up groups and what they mean in the following application example:
<https://support.industry.siemens.com/cs/ww/en/view/109479599>

- 9. Click the "Next" button because the password policy does not affect UMC users.



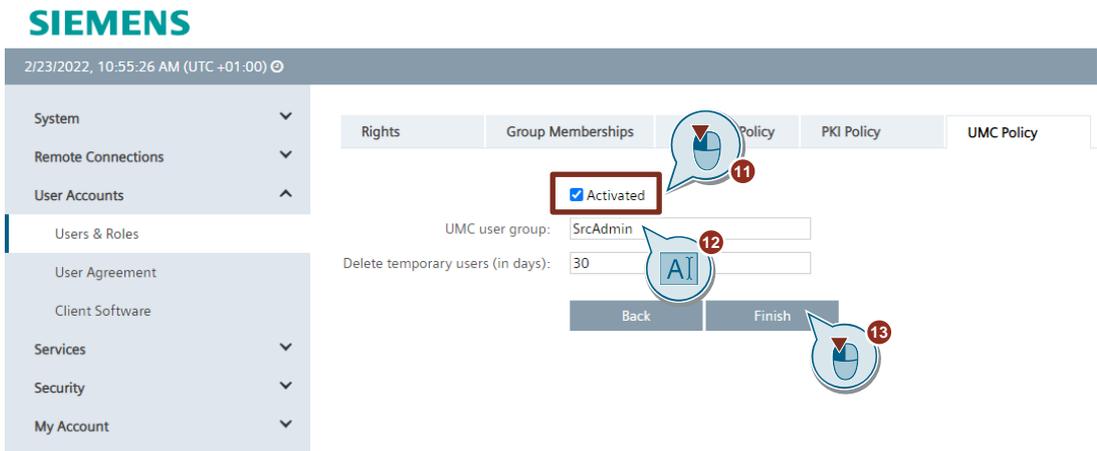
10. Click "Next" because the PKI policy does not affect UMC users.



11. Activate the UMC policy.

12. Enter the exact UMC group name you created in UMC, for example "SrcAdmin".

13. Click the "Finish" button to save the settings and create the role.



You have finished setting up the SINEMA RC server for use with UMC.

3 Function test

After you have adjusted the settings in UMC and the SINEMA RC server and set up the corresponding groups, you can sign in with UMC users to the SINEMA RC server.

3.1.1 Log in with UMC user to the Web Based Management of the SINEMA RC server

Follow the instructions below to log in with a UMC user to the Web Based Management of the SINEMA RC server:

1. Open the Web Based Management of the SINEMA RC server and select "UMC" as the login method.
2. Enter the login credentials of a user who is a member of the UMC group you created. In this application example, the user "Bob" is a member of the UMC group.
3. Click the "Log on with UMC" button.

Welcome to SINEMA Remote Connect

Local UMC

User name: Bob

Password:

Log on with UMC

PKI Login

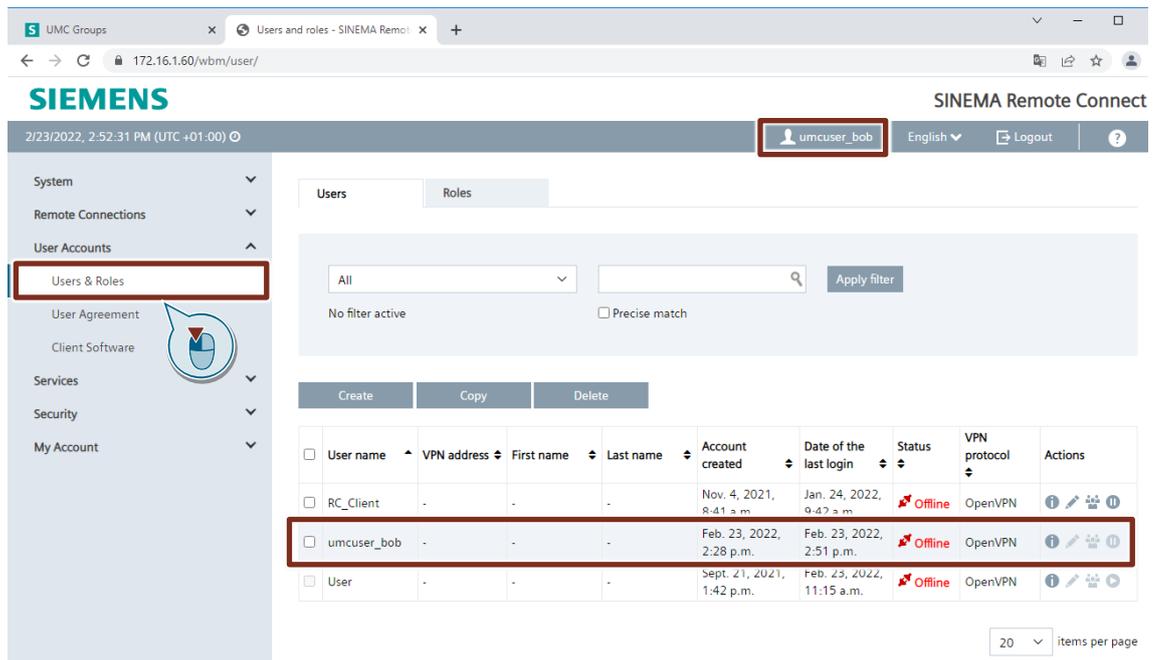
Result

After you have signed in successfully, open the menu "User Accounts > Users & Roles".
If the sign-in was successful, the UMC user "Bob" will be created as a temporary user "umcuser_bob".
SINEMA RC shows that the temporary user "umcuser_bob" is logged in.

Note

On the SINEMA RC server, UMC users are automatically created as temporary users with the "umcuser" prefix once they have signed in successfully.

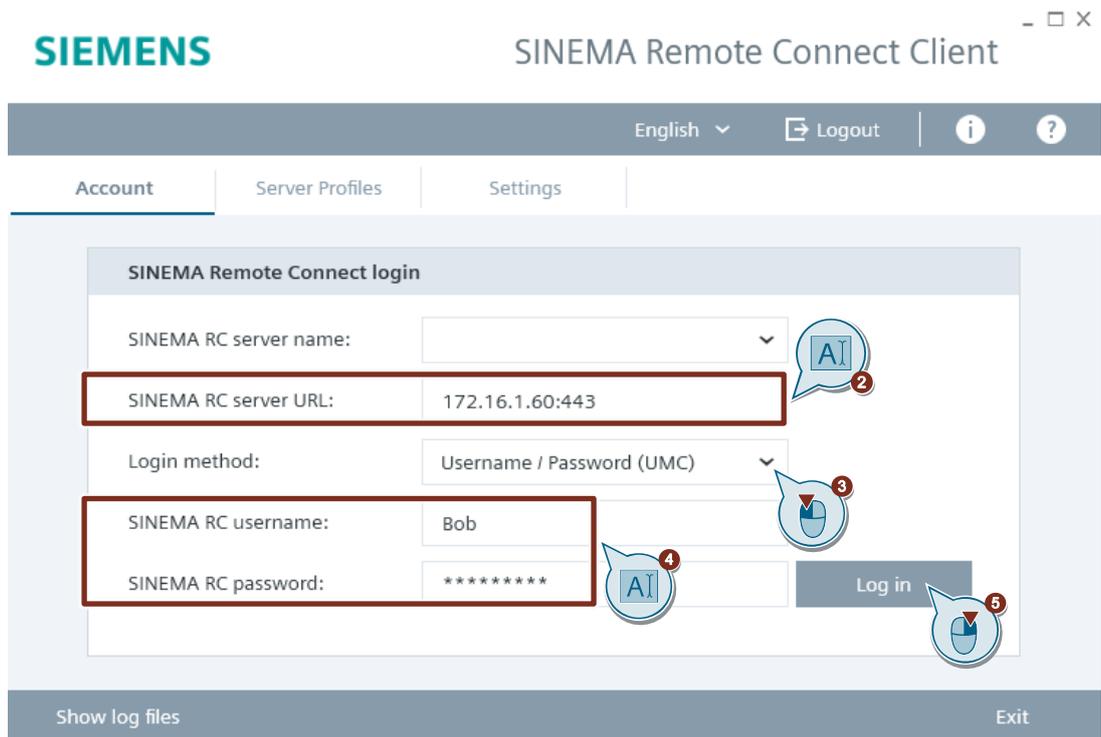
Figure 3-1



3.1.2 Sign in a UMC user to the SINEMA RC client

Follow the instructions below to sign in the UMC user to the SINEMA RC client:

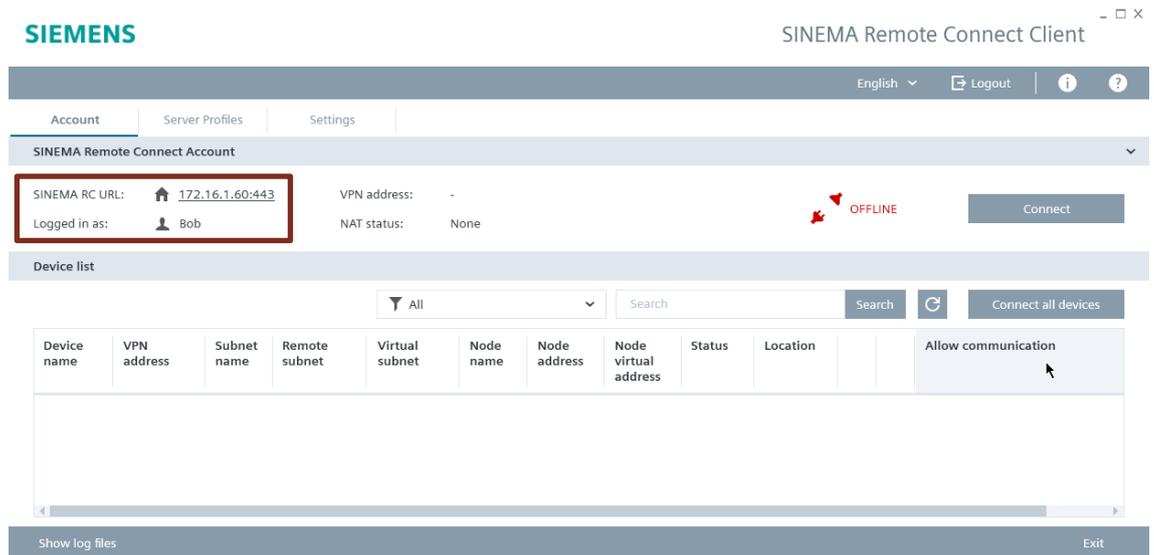
1. Start the SINEMA RC client. Ensure that the client and server version match.
2. Enter the IP address and the port. If the default port "443" will be used, it is not necessary to specify the port.
3. Select "Username / Password (UMC)" as the login method.
4. Enter the login credentials for the UMC user.
5. Click "Log in".



Result

The UMC user is successfully signed in to the SINEMA RC client. The SINEMA RC client displays the devices assigned to the UMC user that the user can connect to. No devices have been set up in this application example and therefore no devices are visible in the list.

Figure 3-2



4 Appendix

4.1 Service and support

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support.industry.siemens.com/cs/ww/en/sc/2067

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mall.industry.siemens.com

4.3 Links and literature

Table 4-1

No.	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Link to the article page of the application example https://support.industry.siemens.com/cs/ww/en/view/109780337

4.4 Change documentation

Table 4-2

Version	Date	Change
V1.0	02/2021	First edition
V2.0	04/2022	Complete revision