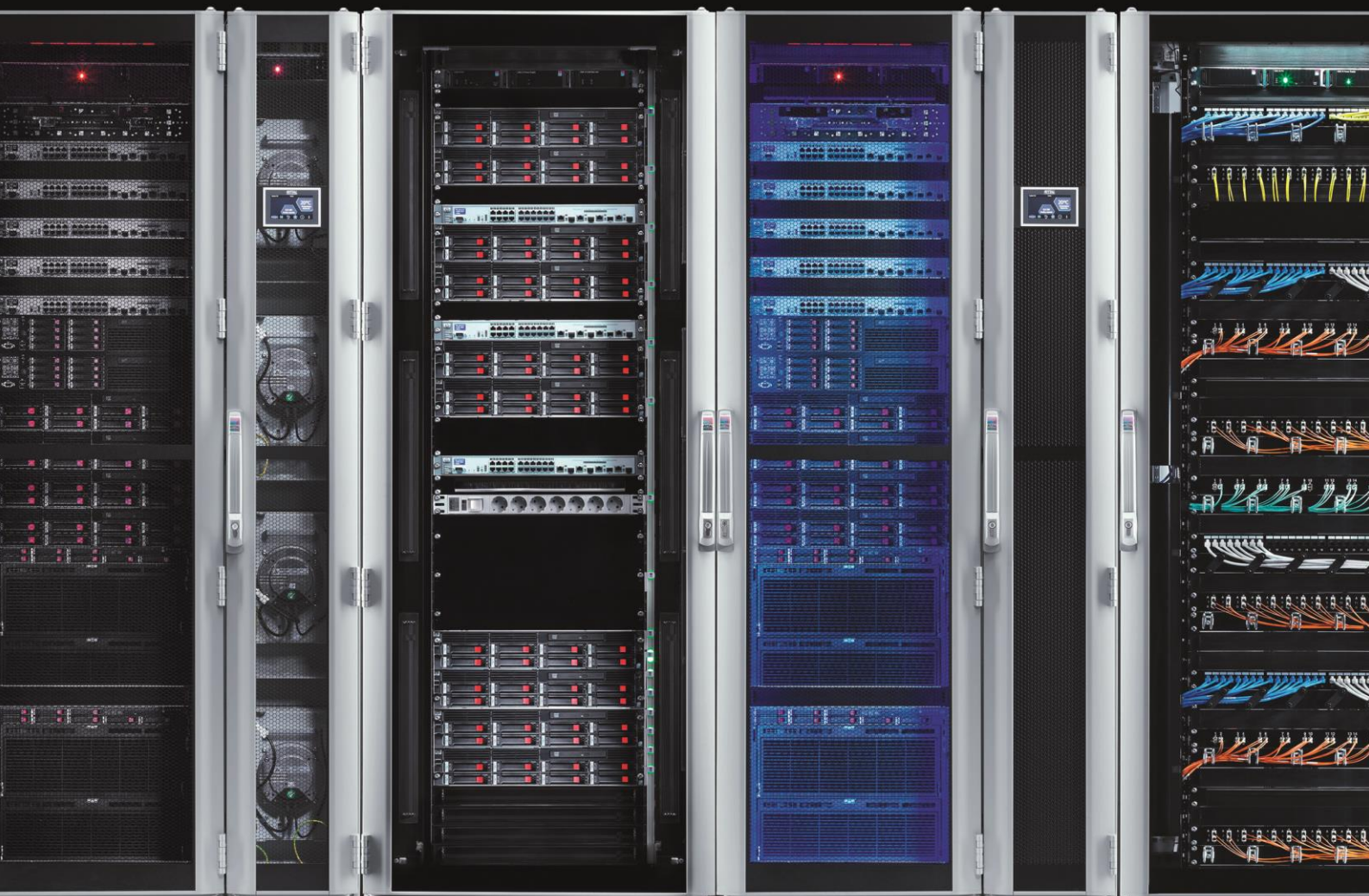


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► Howto – CMC III LDAP



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Contents

Contents.....	1
Introduction	3
LDAP directory of the server	3
Configuration in the CMC III	3
Server.....	4
User Search	5
Group Search	5
Group-Alias Configuration	6
Sample LDAP configuration	7
Logging on to the CMC III	7

Introduction

From software version 3.11.00 and above, the CMC III supports the LDAP protocol (Lightweight Directory Access Protocol). This protocol supports centralised user administration for the CMC III and linking to an active directory server.

If there are a large number of CMC III systems operational in the network, users are only added or deleted once on the server, rather than on each system individually. This streamlines the administrative work involved, because there is no need to access each CMC III system via the browser; instead, users are simply deleted or added once only on the server.

This Howto describes how to connect the CMC III to an active directory server via LDAP.

LDAP directory of the server

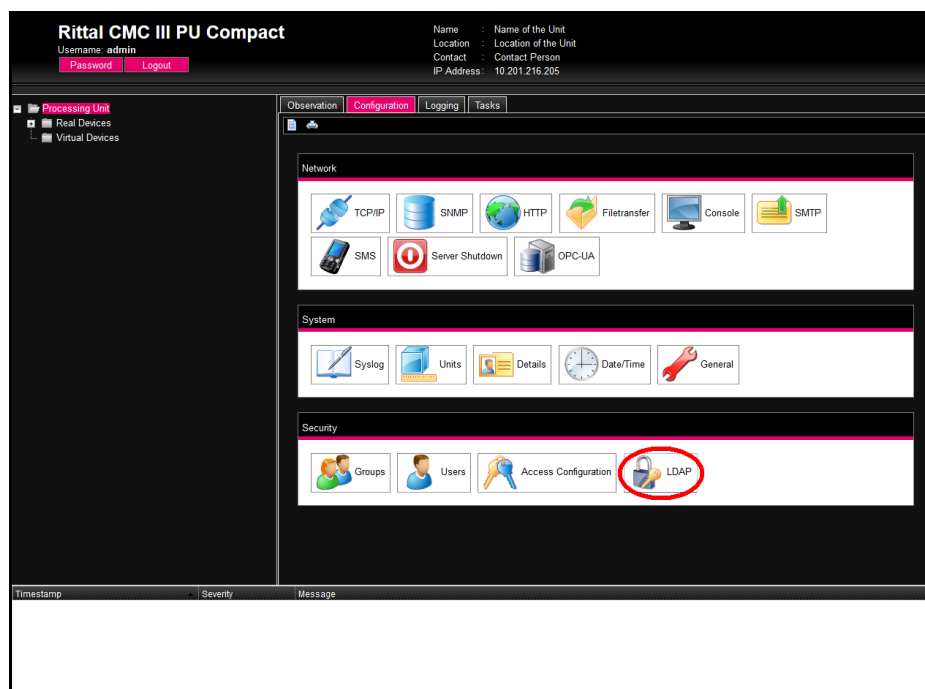
The structure of the LDAP directory on the central server varies from one company to the next. For this reason, the server structure should be specifically clarified before setting up the CMC III. This information must be stored in the CMC III configuration.

Detailed information on the structure of an LDAP directory and the terminology used can be found in Wikipedia:

http://en.wikipedia.org/wiki/Lightweight_Directory_Access_Protocol#Directory_structure

Configuration in the CMC III

LDAP settings are made in the CMC III under the "Configuration" tab. Please select and check the "Processing Unit" heading from the tree structure on the left of the page.



By clicking on the *LDAP* button, a window will open containing the configuration of the LDAP connection.

LDAP Configuration

Server

Enable LDAP ☐

Hostname

Bind DN

Bind PW

Group Search

Search Filter

Base DN

Attribute

NOTE: In fields above use %U as placeholder for LDAP Username.

User Search

Search Filter

Base DN

Attribute

NOTE: In fields above use %L as placeholder for Login Name.

Group-Alias Configuration

ID	Group Name	LDAP Alias
1	admins	
2	service	
3	sales	
4	support	
5		

Save Reset Cancel

The configuration window is divided into four areas: *Server*, *Group Search*, *User Search* and *Group-Alias Configuration*. The various configuration options for LDAP are defined in these areas.

Server

In the *Server* area, first define whether user administration of the CMC III is to be linked to an active directory via the LDAP protocol. To do so, either check or uncheck the box next to the command "Enable LDAP". If the box is unchecked, no further settings may be made in any part of the LDAP configuration window.

Should you wish to use LDAP, and provided the box is checked, you must first configure an LDAP server using an IP address or host name. Login information must also be entered under "Bind DN" and "Bind PW", which will allow the CMC III to log on to the LDAP server and read information. We recommend using static login information for this prompt, which should not be changed at regular intervals, otherwise you will need to renew the password in each CMC III every time it is changed.

In the "Bind DN" box, enter the login name in the form of a unique "Distinguished Name (DN)" e.g. "CN=Service CMCIII,OU=CMC III,OU=Service,DC=Rittal,DC=de". The Distinguished Name is comprised of various attributes, depending on the structure and layout of the active directory (of the LDAP server) in question.

The password for the aforementioned login name "Bind DN" is entered in the "Bind PW" box.

Server

Enable LDAP ☒

Hostname

Bind DN

Bind PW

User Search

The *User Search* area defines how the CMC III should search for the user on the LDAP server. Using these parameters, the CMC III searches for the user matching the attribute entered in the CMC III login window under "Username". The parameters are entered under "Search Filter", e.g. "(&(objectClass=user)(mail=%L))". The value "%L" corresponds to the placeholder for the user's login name. In this example, the attribute "mail" defines that the user is able to enter his e-mail address later on to log on to the CMC III login window. The "Base DN" field specifies the branch of the LDAP directory to be searched, e.g. "DC=Rittal,DC=de". The "attribute" field defines the attribute allowing the user to be found on the LDAP server.

User Search

Search Filter

Base DN

Attribute

NOTE: In fields above use %L as placeholder for Login Name.

Group Search

The *Group Search* area defines how the CMC III should search for groups on the LDAP server. The parameters for this search are defined under "Search Filter", for example "(&(objectClass=group)(member=%U))". The value "%U" corresponds to the placeholder for the user's DN name, which is later entered in the login window. The CMC III then searches for a group and scans it to ascertain whether the user is assigned to that group.

The "Base DN" field specifies the branch of the LDAP directory to be searched, e.g. "DC=Rittal,DC=de". The "attribute" field defines the attribute allowing the user to be found on the LDAP server.

Group Search

Search Filter

Base DN

Attribute

(&(objectClass=group)(member=%U))

DC=Rittal,DC=de

dn

NOTE: In fields above use %U as placeholder for LDAP Username.

Group-Alias Configuration

CMC III groups are allocated to specific LDAP aliases in the *User Search* area. In this table, the user groups created are automatically shown in the left-hand column and cannot be altered. The LDAP aliases are then entered in the right-hand column. These are entered in the form of the Distinguished Name of the respective LDAP alias, for example: "CN=Administrators,OU=IT,OU=Herborn,DC=Rittal,DC=de".

Group-Alias Configuration

ID	Group Name	LDAP Alias
1	admins	CN=Administrators,OU=IT,OU=Herborn,DC=Rittal,DC=de
2	service	CN=Technicians,OU=Service,OU=Herborn,DC=Rittal,DC=de
3	sales	CN=Sales,OU=Sales-Departement,OU=Herborn,DC=Rittal,DC=de
4	support	CN=Phone-Support,OU=Service,OU=Herborn,DC=Rittal,DC=de

Sample LDAP configuration

A sample LDAP configuration is shown in the following chart:

The screenshot shows the 'LDAP Configuration' window with the following settings:

- Server:**
 - Enable LDAP: ☐
 - Hostname: LDAP-Server.Rittal.com
 - Bind DN: CN=Service CMCIII,OU=CMC III,OU=Service,DC=Ri
 - Bind PW: [Redacted]
- Group Search:**
 - Search Filter: (&(objectClass=group)(member=%U))
 - Base DN: DC=Rittal,DC=de
 - Attribute: dn
 - NOTE: In fields above use %U as placeholder for LDAP Username.
- User Search:**
 - Search Filter: (&(objectClass=user)(mail=%L))
 - Base DN: DC=Rittal,DC=de
 - Attribute: dn
 - NOTE: In fields above use %L as placeholder for Login Name.
- Group-Alias Configuration:**

ID	Group Name	LDAP Alias
1	admins	CN=Administrators,OU=IT,OU=Herborn,DC=Ritti
2	service	CN=Technicians,OU=Service,OU=Herborn,DC=Ri
3	sales	CN=Sales,OU=Sales-Department,OU=Herborn,DC=Rittal,DC=de
4	support	CN=Phone-Support,OU=Service,OU=Herborn,DC=Rittal,DC=de

Buttons: Save, Reset, Cancel

Logging on to the CMC III

With the aforementioned configuration, the user would log on to the login window of the CMC III with the e-mail address of his company account and his Windows password:

The screenshot shows the 'Rittal – The System.' login window. The header includes the Rittal logo and the tagline 'Faster – better – worldwide.' The main content area is titled 'Rittal CMC III PU Compact' and contains a 'Login' section with the following fields:

- Username: Service-Technician@Rittal.de
- Password: [Redacted]
- Login button

Below the login fields, there is a list of system information:

- Name: Name of the Unit
- Location: Location of the Unit
- Contact: Contact Person
- IP Address: 10.201.216.205

At the bottom of the window, there is a navigation bar with the following tabs: ENCLOSURES, POWER DISTRIBUTION, CLIMATE CONTROL, IT INFRASTRUCTURE, and SOFTWARE & SERVICES. The footer text reads '2012 © Rittal GmbH & Co. KG' and 'FRIEDHELM LOH GROUP'.

By clicking on the "Login" button, the CMC III logs on to the LDAP server in the background using the configured login information (from the *Server* area). The system then searches for the specified user on the LDAP server using the settings in the *User Search* area, and

subsequently ascertains which groups the user belongs to, using the information in the *Group Search* area. The CMC III then compares the user's groups with the groups defined in the LDAP configuration in the *LDAP-Alias Configuration* area. If one of the groups is a match, the user is logged on to the CMC III with the allocated rights for that group. If the user is on the LDAP server, i.e. in the "Administrators" group, he will be logged onto the CMC III as a subscriber in the "admins" group. The rights administration for the CMC III defines the read and write authorisations for the "admins" group. These rights are allocated to the user who is logged on via LDAP.

Note: If a user on the LDAP server is a member of two or more groups, he is logged onto the CMC III as a subscriber in the group which is highest on the list in the *LDAP-Alias Configuration* area.

In the above example, the user who is a member of both the "Technicians" group and the "Phone-Support" group would be logged onto the CMC III with the rights of the CMC III group "service".

ID	Group Name	LDAP Alias
1	admins	CN=Administrators,OU=IT,OU=Herborn,DC=Rittal
2	service	CN=Technicians,OU=Service,OU=Herborn,DC=Rittal
3	sales	CN=Sales,OU=Sales-Departement,OU=Herborn,DC=Rittal,DC=de
4	support	CN=Phone-Support,OU=Service,OU=Herborn,DC=Rittal,DC=de

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