## Appendix 3
## Carry out an update

**Note:**

The total update takes approx. 20 minutes.

## A 3.1 Safety Instructions

**Note:**

Carrying out the software update is done in the respective network environment, on the authority of the user.

**Note:**

The LCP Plus runs during the time of the update at full cooling capacity; there is no control of the valves or the ventilator performance and any monitoring of the temperature and cooling parameters. Because the LCP Plus is rebooted during the software update process, the "Operating Mode" is reset to "Automatic".

**Note:**

During the update, neither the power supply, nor the network connection of the LCP Plus must be interrupted.

**Note:**

In the factory status, settings in the system can possibly be reset by an update.

**Note:**

The script contained in the update package must not be changed under any circumstances. If it is changed, the warranty for the system becomes invalid.

## A 3.2 Service

If you have technical questions, or questions regarding our product range, please contact the service address as follows:

Phone:          +49 (0) 27 72/50 5-90 52

e-mail:          info@rittal.de

Internet:        www.rimatrix5.de

**Note:**

In order that we can answer your queries fast and accurately, in your e-mails, always enter the item number in the row Subject.

# Rittal Liquid Cooling Package Plus

**A 3.3 Preparation tasks**

The following transmission of the SW update is based on the FTP protocol. The condition hereto is that the FTP is installed on the PC and established, also the FTP function of the Basic CMC is switched on.

The FTP function can be activated by using the Hyper terminal or Telnet in Menu 1 "Network Configuration" of the Basic CMC → menu item A: Enable FTP = Enabled.
In addition, the installation routine anticipates the FTP factory-set passwords. Therefore, if applicable, for the update per Hyper terminal or Telnet, set this back to: "admin".
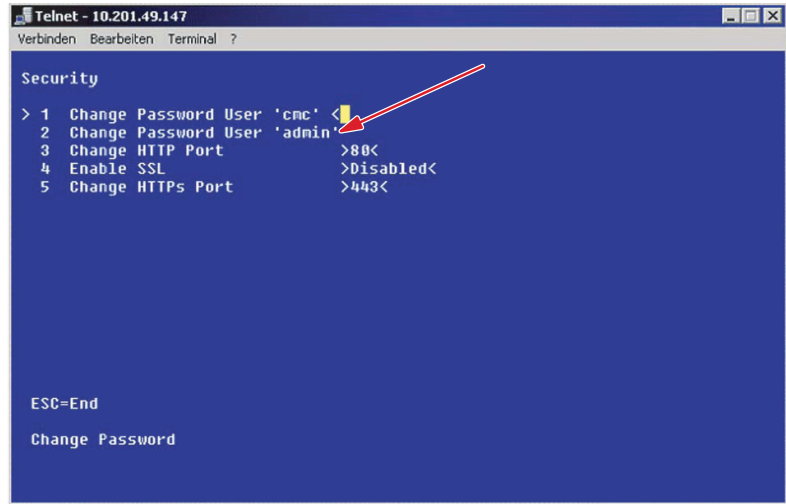


*Fig. 90: Screen page "Security"*

During the update process, the Basic CMC is rebooted; subsequently, the FTP connection is re-established. Therefore, it is absolutely necessary that the Basic CMC has the same IP address as when starting the update process.
For this reason, the DHCP function must be at "Disabled" during the update process and a fixed IP address must be used.
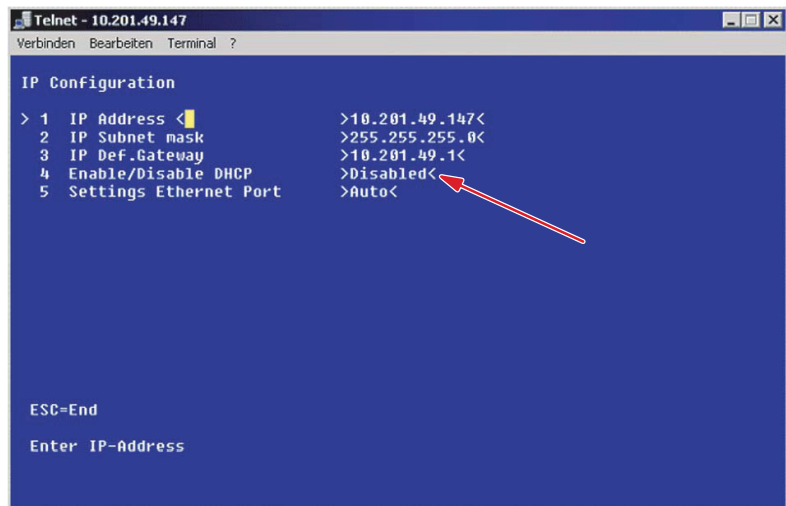


*Fig. 91: Screen page "IP Configuration"*

Operating and Maintenance Instructions – Carry out an update

## A 3.4 Carry out the update

⚠️ **Attention!**

**With the update, it is possible that the previously set configuration adjustments are reset to the factory settings; thereby, the settings are lost.**

- Download the actual SW version from the RITTAL homepage www.rimatrix5.de, under service → Download → Cooling and copy to the hard drive.
- Unpack the WINZIP file on the hard drive in its own folder. Make sure that the file is unpacked with path data and **not** directly copied into the main directory of the hard drive, e.g. C:\.
- Operate the Basic CMC of the LCP Plus. Apply power, connect the network connection and the IP address and adjust the sub-netmask to your network. Note the IP address of the Basic CMC.
- With the Windows start button, open the MS-DOS prompt, change to the appropriate directory and enter the following command: e.g. update 10.201.49.147, whereby, the IP address must correspond to the IP address of your processing unit.



```
C:\WINNT\System32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>update 10.201.49.147_
```

*Fig. 92:   Input command for the DOS prompt*

- With the command confirmation, by the key ENTER, your LCP Plus is brought up to the current SW status.

⚠️ **Attention!**

**After starting the update process, under no circumstances must this be interrupted.**

☞ **Note:**

The total update takes approx. 20 minutes.

# Rittal Liquid Cooling Package Plus



Fig. 93:   Perspective of the update routine running

# Rittal Liquid Cooling Package Plus

**The software update consists of multiple parts:**

> **Note:**
>
> **Step 1**, as well as **Step 2**, is automatically carried out. As a rule, these must not be individually entered.

In **Step 1**, the actual application software (standard algorithms, webpages, control of the LCP, etc.) is transferred. These files are transferred with the command 'put update620.tgz'; this file is a packed file. After this file is transferred, it is unpacked and the Basic CMC is rebooted (message: 'CMC is updating and booting... please wait...').

In **Step 2**, the file system ('put cramfs_cmc-lcp611.img') and, if applicable, the Linux-Kernel ('put uImage_cmc-pu2_2006-01-30_ppp_mkr') is transferred to the Basic CMC.

Step 1 is definitely carried out, i.e. the file is unpacked and the new version installed on the Basic CMC. After the files for Step 2 have been transferred to the Basic CMC, it is checked to see if this update step must be carried out. Thereby, it is distinguished which version was previously installed on the Basic CMC:

- **Up to and including V6.10:**
  Both update steps must be carried out, i.e. also the file system/Linux must be brought up to the current status.

- **From V6.11:**
  If a version from V6.11 is already installed, the second update step is not carried out.

## A 3.5 Check of the update process

After the update has fully run, it should be checked to see if the update has been correctly carried out. This can be checked by the Event Log webpage.

If the update is for a version V6.11 or higher, the following Log entry must be available, e.g.:
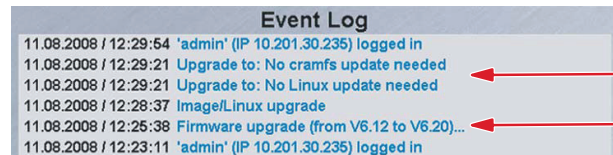


*Fig. 94: Event Log for an update version 6.11 or higher*

The entries 'No cramfs update needed' and 'No Linux update needed' indicate that it was not necessary to carry out update Step 2, because the file system was already at the current status.
The entry 'Firmware upgrade from V6.12 to V6.20' indicates that the update process in Step 1 from V6.12 to V6.20 has been successfully carried out.

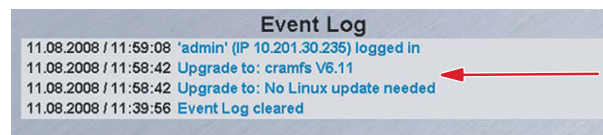If the update is for a version V6.10, the following Log entry must be available, e.g.:



*Fig. 95: Event Log for an update version 6.10 or lower*

The entry 'Update to: cramfs V6.11' indicates that the update Step 2 must be carried out, because the file system was not at the current status; Linux, however, was already at the current status ('No Linux update needed').

If, however, the indication is 'cramfs version not matching, V6.11 required.

Please upgrade!', update Step 2 must again be carried out.



**Event Log**

15.08.2008 / 09:23:22  'admin' (IP 10.201.30.235) logged in
15.08.2008 / 09:21:13  cramfs version not matching, V6.11 required. Please upgrade!
15.08.2008 / 09:21:07  Event Log cleared

*Fig. 96:   Event Log*

This step can be repeated with the command 'update2 10.201.49.147' ('update2 <IP-Address>'), whereby the IP address must correspond to the IP address of your LCP Plus.

Finally, check the software version under the menu item "Info page" in the CMC menu.