

Reference Manual

R CP 5044

Remote Control Panel

Revision 1.1 – December 2013

This Manual Supports Device Revisions:	
Control System GUI Release	7.1.1
Embedded Server Release	7.1.1

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Warranty

LYNX Technik AG warrants that the product will be free from defects in materials and workmanship for a period of three (3) years from the date of shipment. If this product proves defective during the warranty period, LYNX Technik AG at its option will either repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, customer must notify LYNX Technik of the defect before expiration of the warranty period and make suitable arrangements for the performance of service. Customer shall be responsible for packaging and shipping the defective product to the service center designated by LYNX Technik, with shipping charges prepaid. LYNX Technik shall pay for the return of the product to the customer if the shipment is within the country which the LYNX Technik service center is located. Customer shall be responsible for payment of all shipping charges, duties, taxes and any other charges for products returned to any other locations.

This warranty shall not apply to any defect, failure, or damage caused by improper use or improper or inadequate maintenance and care. LYNX Technik shall not be obligated to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than LYNX Technik representatives to install, repair or service the product; b) to repair damage resulting from improper use or connection to incompatible equipment; c) to repair any damage or malfunction caused by the use of non LYNX Technik supplies; or d) to service a product which has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty servicing the product.

THIS WARRANTY IS GIVEN BY LYNX TECHNIK WITH RESPECT TO THIS PRODUCT IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. LYNX TECHNIK AND ITS VENDORS DISCLAIM ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. LYNX TECHNIK'S RESPONSIBILITY TO REPAIR AND REPLACE DEFECTIVE PRODUCTS IS THE SOLE AND EXCLUSIVE REMEDY PROVIDED TO THE CUSTOMER FOR BREACH OF THIS WARRANTY. LYNX TECHNIK AND ITS VENDORS WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IRRESPECTIVE OF WHETHER LYNX TECHNIK OR THE VENDOR HAS ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

Regulatory information

Europe

Declaration of Conformity

We	LYNX Technik AG Brunnenweg 3 D-64331 Weiterstadt Germany
<i>Declare under our sole responsibility that the product</i>	
TYPE: R CP 5044	
<i>To which this declaration relates is in conformity with the following standards (environments E1-E3):</i>	
EN 55103-1 /1996	
EN 55103-2 /1996	
EN 60950-1 /2006	
<i>Following the provisions of 89/336/EEC and 73/23/EEC directives.</i>	
Winfried Deckelmann	
Weiterstadt, December 2013	
<i>Place and date of issue</i>	<i>Legal Signature</i>

USA

FCC 47 Part 15

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to the part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

Getting Started

The remote control panel includes all necessary assemblies for installation of this panel into a network environment, i.e. the panel itself, an IEC power supply and a network cable

Packaging

The shipping carton and packaging materials provide protection for the module during transit. Please retain the shipping cartons in case subsequent shipping of the product becomes necessary.

Product Description

The R CP 5044 is a compact control panel designed for use with the Series 5000 product line.

The panel can be used with or without the LYNX APPolo Control system and will provide access and remote control to any module connected to the system.

An integrated alphanumeric display with software assignable illuminated buttons and digital rotary controls provide the user interface. The system can be connected via Serial RS 232 or LAN depending on system connectivity requirements and the controller hardware installed in the LYNX racks.

System Requirements

The system the control panel is to be connected to must have an R CT 5031 Master Controller or OH_RCT5023_SVR APPolo Server fitted.

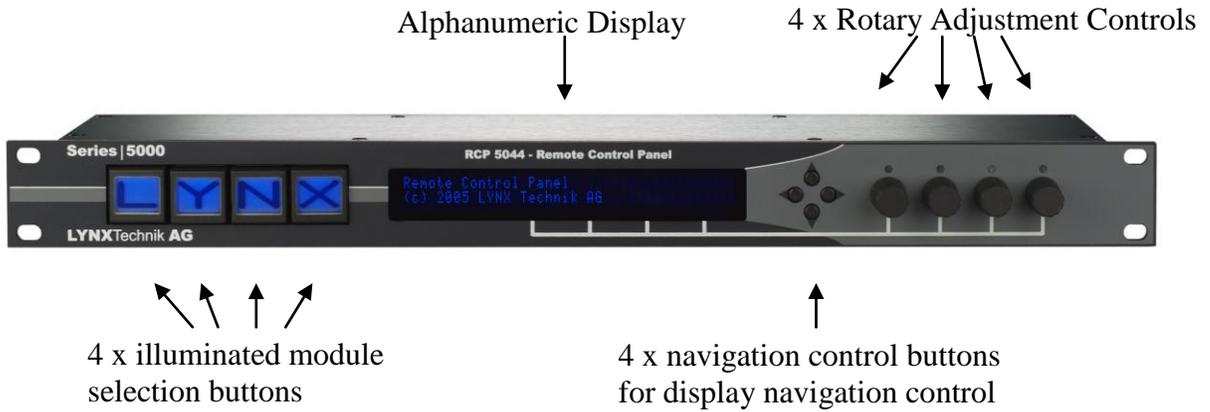
NOTE: *The RS232 connector can be used with single Series 5000 rack frames, where an R CT 5020 or R CT 5021 controller is used. It can also be used to connect the R CP 5016 expansion panel.*

The panel can be used in a network in parallel to other R CP 5044 panels.

The panel can also be used with systems currently using the LYNX APPolo GUI PC client.

Control Panel Layout

The picture below shows the physical layout of the R CP 5044 Control panel.



All connections to the panel are made on the rear..



LAN Connection

This is a standard 100 baseT LAN connection using an RJ45 connector. This port is used to interface to a network with a host rack using an RCT 5031 Master controller or anOH_RCT5023_SVR APPolo Server.

This port is also used for panel configuration through a web interface.

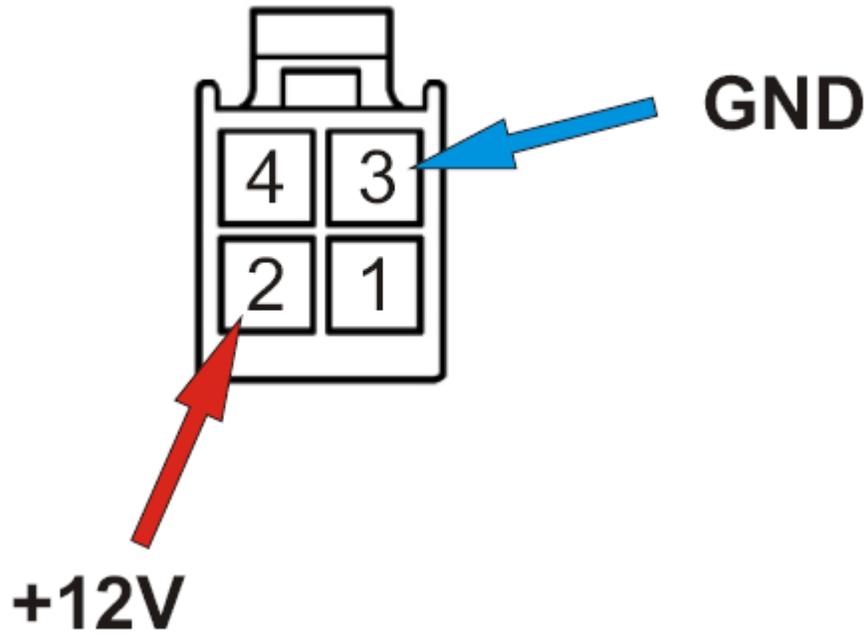
RS 232 Connection

The connection is a standard RJ45 female connector.

Pin Number	Connection	Pin Number	Connection
1	GND	6	RX
2	GND	7	n.c.
3	n.c.	8	n.c.
4	TX		
5	n.c.		

DC Power Connection

The panel has a DC input with 12V / 1A max. The power supply is included. Connections are shown below. View is into the connector of the panel.



Installation

Mechanical Installation

The control panel can be installed anywhere there is adequate 19" rack space available. (Or a suitable control console cutout). The unit occupies 1 RU of vertical rack space and requires approximately 180mm (7 inches) allowance for depth including the rear connectors.

Note: *If interfacing the panel RS 232 then please ensure the panel is close enough not to exceed the maximum 5m cable length.*

Electrical Installation

Power. The panel is DC powered, the required external power supply is included. Connection is made to the rear DC power connector.

Interfacing

For setup of the network interface please refer to the description in the next chapter.

Recommended reading:

We have a white paper "**Lynx Technik Control Systems**" on our homepage which describes the control system in some detail. Please take the time to read this if you are not familiar with the LYNX APPolo control system.

Use the URL below to download the PDF file.

http://www.lynx-technik.com/fileadmin/user_upload/pdf/Control-System-Overview-Dec2012.pdf

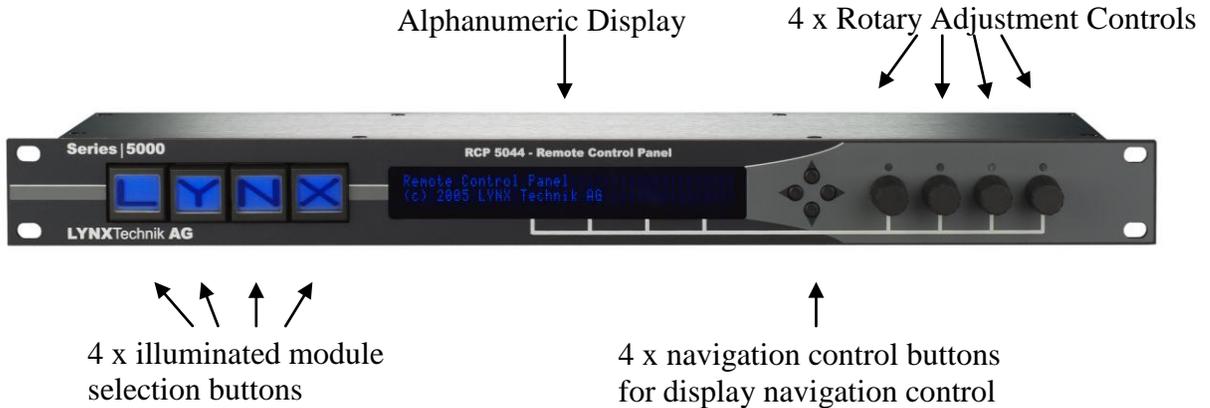
Parallel Operation

As the control devices have parallel access to the system, any changes made in the PC APPolo Control GUI are instantly updated in the panels – and likewise any changes made on the panels is immediately updated in the PC client display. No device has priority.

Panel Operation

Controls

The panel layout can be seen below:



Illuminated Module Selection Buttons

This is a set of 4 multicolor pushbuttons which can be user assigned to any device to provide fast access to adjustments and convenient status monitoring. The device name is clearly displayed in the button alphanumeric display and the color corresponds to the module alarm condition LED (Green, Yellow or Red)

To assign a device to a button manually navigate to the device using the navigation control and then press and hold the desired button for a few seconds, the button will then be assigned to this device. Pushing this button will now switch the control panel directly to this device. To clear the button assignment press and hold down for a few seconds until the button is no longer illuminated.

Navigation Control Buttons

This control consists of 4 button to navigate to the available menus in the display:

UP – DOWN – LEFT – RIGHT

Using the left and right button will scroll through available selections in the selected level.

Using the up and Down button the control will jump up and down between the available levels.

Rotary Module Adjustment Controls

There are 4 rotary digi-pots provided for module adjustments. The function and assignment of these controls is controlled by software depending on the device currently selected. Digi-pots which are assigned to a particular function will have the LED illuminated green above the assigned control.

Rotating the knob left or right will increase or decrease the particular value. If it is a switch function this can be toggled by turning the digi-pot or pressing the knob. (numerical variables like gain etc can be reset back to factory default by pressing and holding the digi pot for a couple of seconds).

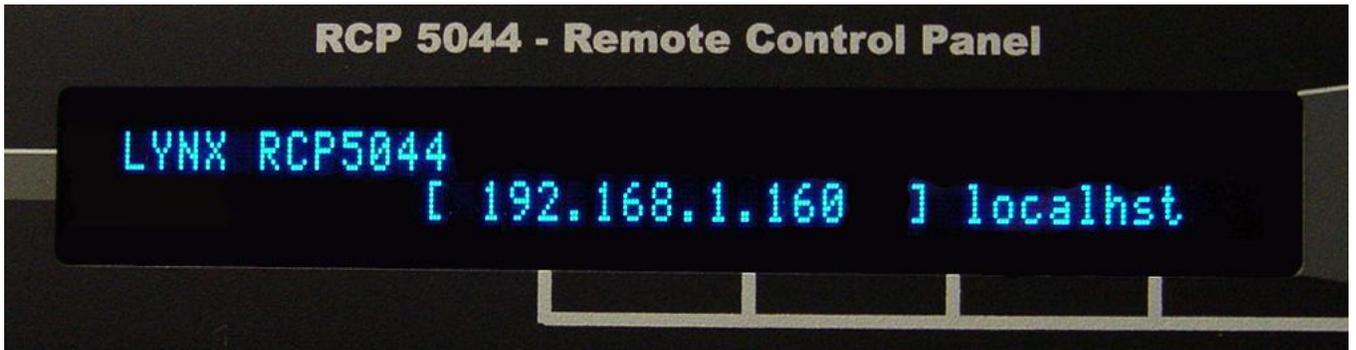
Panel Display

The panel has a two line 40 character alpha-numeric display which is used to display module settings / status / alarms and connections. The function of the display is determined by software and selected function.

The examples below show some of the typical displays used on the panel with a brief description of each

Root Display

After the panel has successfully booted the panel root display will look something like this:



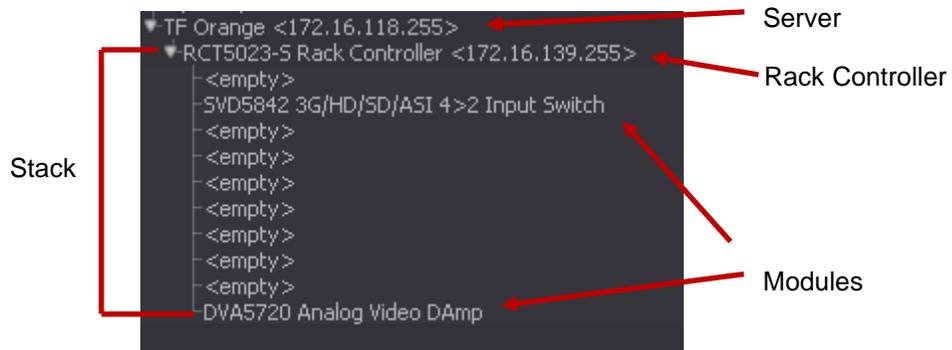
Below the panel type name (R CP 5044) all available LYNX Servers the panel is connected to are displayed. The currently selected server is shown with brackets around the IP address of this server.

Selecting another server in that list is done with the Left and Right navigation buttons.

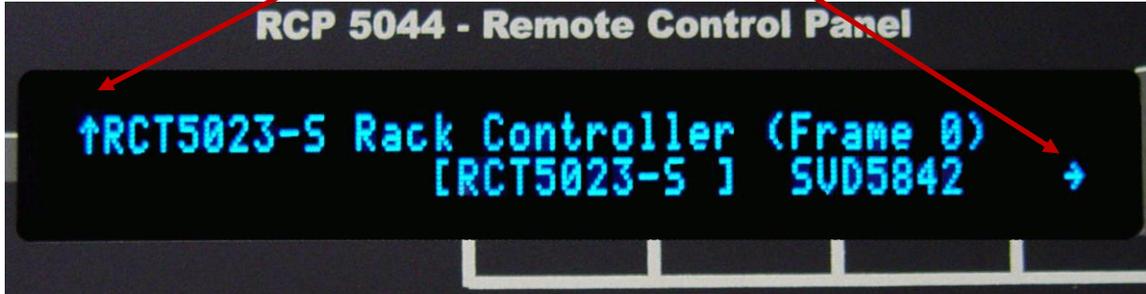
Note: You can add more servers using the web interface for the panel. See chapter "Adding LYNX Servers to the panel connection list" below

Navigation through System Hierarchy

The hierarchy of all modules connected to one server is equivalent to the structural device list of the LYNX APPolo Control GUI (see example below).



Navigation through the System Hierarchy is done with the four navigation buttons. Possible selections are displayed with arrows indicating the direction of the selections.



Brackets around a type name indicate the selected item. With the **Down** navigation button the next lower level can be reached for this item.

Panel Configuration

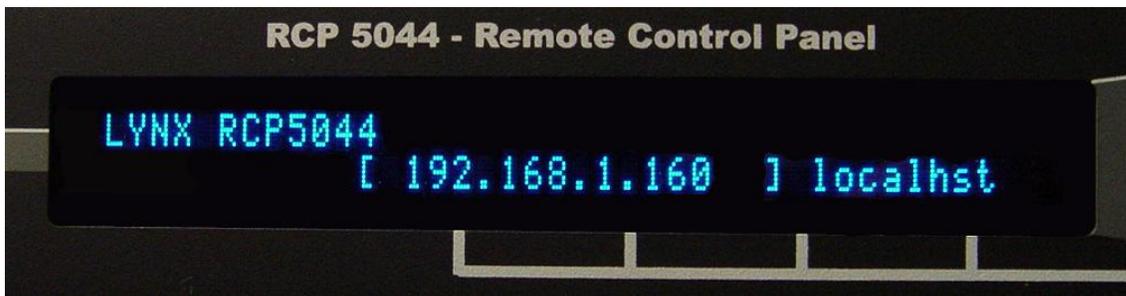
Introduction

The R CP 5044 is a flexible device which can be used a number of ways depending on the installation and connectivity requirements. There are number of parameters which need to be configured correctly (depending on the application) for the panel to function correctly.

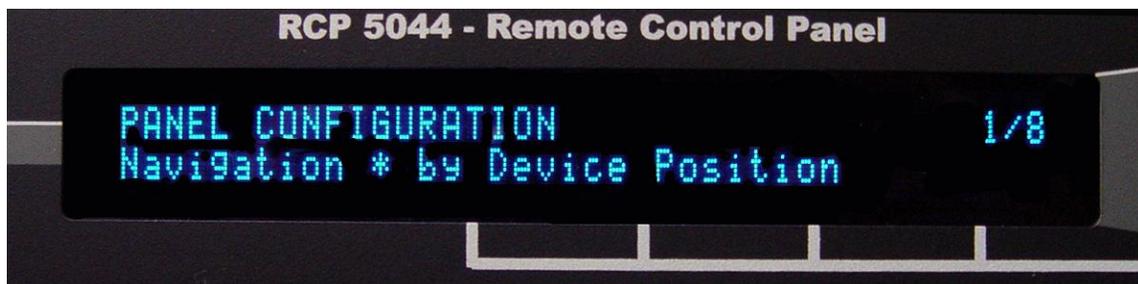
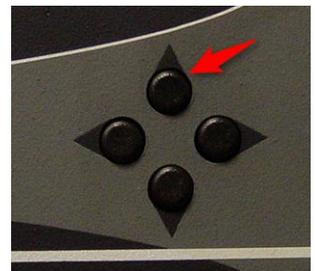
Basic Configuration Settings

Plug the R CP 5044 control panel LAN connection on the rear of the panel into the network the LYNX Master controller or APPolo server is connected to.

Apply DC power to the control panel and wait for the panel to boot up and look for the panel root display shown below:



When in the root display press and hold the navigation **UP** button for a couple of seconds to enter the configuration menu. You should see something like this:



There are eight pages which can be scrolled through using the navigation control. Changes are made using the assigned rotary controls (not shown above). The asterisk next to the config file signifies the current selection. Using the assigned rotary control change the setting and then press to commit the change (the asterisk will appear). When all changes have been made pressing the navigation control will return you to the root display.

Setting the IP address of the RCP 5044 panel

The default IP address of the panel is 192.168.1.161.

Navigate with the “RIGHT” key to page 4 or 5 of this menu to set the panel to DHCP mode (page 4) or to set a specific IP Address (page 5)

- a) **DHCP mode:** Change to “on” or “off” with the first of the rotary switches on the right side of the panel (LED above the rotary button is illuminated green)
Please confirm your network Server is DHCP capable, otherwise the R CP 5044 panel will not obtain a valid IP address
- b) **Set IP address:** Change the IP address with the four rotary switches to the required address

Acknowledge the changes with the respective rotary button.

NOTE: *DHCP mode has to be in “off” state to be able to set a specific IP address.*

To activate the setting press on the “UP” key again.

The message “Applying network configuration...” will be shown in the display.

After a few seconds the display will switch back to the root display as shown in step 2

NOTE: *It is also possible to set the IP address of the R CP 5044 panel through the APPolo Control GUI – Network Management Configurator. Please see the Quick Reference Guide of the APPolo Control System*

Note: *The netmask and gateway address can be set on page 5 and 7 of the panel configuration menu*

Config file setting

Select page 2 of the panel configuration menu.

This will scroll through all the xml panel configuration files currently loaded in the panel.
(note XML files are supplied by LYNX and loaded via the web interface)

Navigation (Device Listing Order)

Select page 1 of the panel configuration menu.

This changes the order in which the devices are listed when scrolling through the available devices using the navigation control.

Available settings are :

By Device Position – This is a logical representation based upon the physical location in the system which will group devices by the physical stack / rack / position order.

By Device Name – All the devices are alphabetically sorted based on the assigned device name

Display Brightness

Select page 3 of the panel configuration menu.

This is used to set the panel display brightness to one of four possible settings [0...3]

SW version

Select page 8 of the panel configuration menu.

This will display the active SW version of the panel

Web Interface

Access to panel configuration can be done through a web browser. Connect your PC to the LAN connection on the rear of the panel and point your browser at the following (default) panel IP address:

http://192.168.1.161

Note: If you had previously changed the panel IP address this will not work. Check the panel IP address setting by referring to the root display.

Panel Configuration Login

There are default user and admin logins these are shown below.

Note if you have replaced the default user names and passwords then these logins will not work.

Default User login name : **ctrl**
Default User password : **lynx\$ctrl**

Default Admin login name : **admin**
Default Admin password : **lynx\$admin**

You will get the following window, where you can log in as user or administrator:

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

APPolo Control

Login

LYNX APPolo | Control Server - RELEASE 6.1.2
last restart: 2013-12-19.17-32-33

Login:

Password:

Thu Dec 19 17:36:59 2013

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Adding LYNX Servers to the panel connection list

The default IP address in the connection list for the server the panel is trying to connect to is: **192.168.1.160**.

NOTE: You can always look up this IP address in the Panel Configuration menu as described above.

To change this address or to add more servers login into the panel as administrator through the web interface.

Type in your login (default: **admin**) and administrator password (default: **lynx\$admin**)

Select "Connections to LYNX RackFrames" in the menu bar at the left side

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

logged in as <admin>
Logout

Control
APPolo

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Panel
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Connections to LYNX RackFrames

System
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User Management
System Setup

Connections to LYNX RackFrames

LYNX APPolo | Control Server - RELEASE 6.1.2
last restart: 2013-12-19.17-32-33

This page shows all current connections from this RCP5044 to LYNX device servers. The RCP5044 tries to login to each specified server as soon as they are online, using the specified user/password.

You can:

- Add a new connection by filling the blank line in the table below.
- Remove an existing connection by clearing the respective hostname entry.

The RS232 connector on the back of this RCP5044 unit is accessed as server "localhost", using one of the logins as specified on the page [User Management](#).

	Hostname/IP	User	Password
0	localhost	ctrl	*****
1	192.168.1.160	ctrl	*****
2			

Thu Dec 19 17:45:31 2013

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Here you can insert the IP addresses of the LYNX servers the panel should connect to.

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

logged in as <admin>
Logout

Connections to LYNX RackFrames

LYNX APPolo | Control Server - RELEASE 6.1.2
last restart: 2013-12-19-17-32-33

This page shows all current connections from this RCP5044 to LYNX device servers. The RCP5044 tries to login to each specified server as soon as they are online, using the specified user/password.

You can:

- Add a new connection by filling the blank line in the table below.
- Remove an existing connection by clearing the respective hostname entry.

The RS232 connector on the back of this RCP5044 unit is accessed as server "localhost", using one of the logins as specified on the page [User Management](#).

• Updated 1 connection (green below)

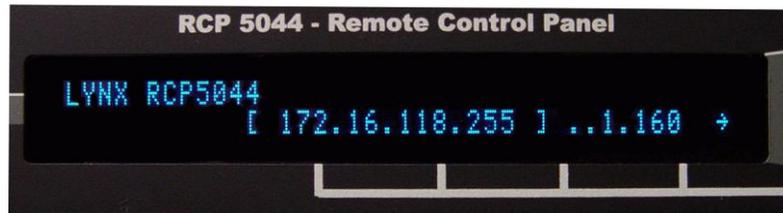
	Hostname/IP	User	Password	
0	localhost	ctrl	•••••	
1	192.168.1.160	ctrl	•••••	
2	172.16.118.255	ctrl	•••••	Updated
3				

Apply Changes

Thu Dec 19 18:00:06 2013
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Then click on the button “Apply Changes”

The Panel itself will then display also the new IP addresses in the root display.



Software Updates

This is where you can verify the software version installed in the RCP and also upload new releases of the software. Download the latest release of the RCP software from our homepage:

<http://www.lynx-technik.com/en/support/download-area/appolo-software/>

Please download the current APPoloControl Server Release Version and store the file on your local disk

Select *Software Versions* in the menu bar at the left side.

Use the “*browse*” (“*Durchsuchen*”) function to point to the downloaded file and then click “*upload*”.

The screenshot shows the RCP5044 web interface. The top header includes 'RCP5044' and 'LYNXTechnik AG Broadcast Television Equipment'. The left sidebar contains a menu with 'Control' and 'APPolo' sections. The main content area is titled 'Software Versions' and shows the current version as 'LYNX APPolo | Control Server - RELEASE 7.1.1' with a last restart date of '2013-12-30.11-33-16'. Below this, there is an 'Install a new Version' section with a search box containing 'APPoloControlServer.70115880.RELEASE_7.1.1.tgz.nd' and an 'Upload' button. A message states 'The latest software is available for download here.' The 'Installed Versions Overview' section contains a table with columns for 'Version', 'Activate', and 'Delete'. The table lists two versions: 'LYNX APPolo | Control Server - RELEASE 7.1.1' (active) and 'LYNX APPolo | Control Server - RELEASE 6.1.2 (factory default)' (with a 'Reset Factory Default' button). The footer shows the date 'Mon Dec 30 11:47:43 2013' and a copyright notice '© 2013 LYNX Technik AG | All rights reserved'.

The versions list shows all installed versions. To activate a new version click on *activate* (or *Reset Factory/Default*) right to the version to be activated

Logfiles

The panel maintains its own internal logfiles which are useful for diagnostics; these files may be asked for by LYNX Technical support if you are experiencing problems. This is accessed by clicking on the “Logfiles” link.

RCP5044



LYNXTechnik AG
Broadcast Television Equipment

Control™

APPolo

- logged in as <admin>
- Logout
- Logfiles**
- Logfiles
- Analysis
- Last Analysis Result
- Panel**
- User Defined Configurations
- Connections to LYNX RackFrames
- System**
- Software Versions
- Version History
- Server Configuration
- User Management
- System Setup

Logfiles

LYNX APPolo | Control Server - RELEASE 7.1.1
last restart: 2013-12-30.11-33-16

Available Logfiles

Logfile	View
c3_server.logfile.8.txt	show
c3_server.logfile.7.txt	show
c3_server.logfile.6.txt	show
c3_server.logfile.5.txt	show
c3_server.logfile.4.txt	show
c3_server.logfile.3.txt	show
c3_server.logfile.2.txt	show
c3_server.logfile.1.txt	show
c3_server.logfile.txt	show
rcp.logfile.8.txt	show
rcp.logfile.7.txt	show
rcp.logfile.6.txt	show
rcp.logfile.5.txt	show
rcp.logfile.4.txt	show
rcp.logfile.3.txt	show
rcp.logfile.2.txt	show
rcp.logfile.1.txt	show
rcp.logfile.txt	show
startup.logfile.txt	show
modify_collibri.logfile.txt	show
Download all files	download

c3_server.logfile.8.txt

[\[back to top\]](#)

```

-----
APP NAME      : LYNX APPolo | Control Server
APP START    : 2013-12-19.16-20-08
APP VERSION  : RELEASE 6.1.2 (build 519, Sep 27 2012, 15:57:23)
CMDLINE     : /usr/local/lynx/c3_server/current/bin/c3_server
FILE INDEX   : 0
FILE START   : 2013-12-19.16-20-08
FILE SYSTEM  : YAFFS, 904.8 MB of 976.0 MB available (92.7%)
MEMORY      : 124 MB RAM
OS           : Linux / colibri-252ba9 / 2.6.35.9-toradex / #1 PREEMPT Thu Sep 27 15:49:56 CEST
2012 / armv5tel
                
```

User Defined Configurations (XML)

The panels are configured for use with xml configuration files. These files are supplied by LYNX and below shows where the files are uploaded.

XML files allow us to easily customize the panels for specific installations and customer requirements. At this time it's not recommended for users to attempt to create and load their own files.

(XML files are selected using the panel display - see **Basic Panel Configuration Settings** section)

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

logged in as <admin>
Logout

User Defined Configurations

LYNX APPolo | Control Server - RELEASE 7.1.1
last restart: 2013-12-30.11-33-16

Upload a Panel Configuration file (XML)

Keine Datei ausgewählt.

Free disk space: 901748 KB

Installed Configuration Files

Configuration File	Show	Activate	Delete
rcp.default.xml (active)	<input type="button" value="Show"/>	<input checked="" type="button" value="active"/>	<input checked="" type="button" value="active"/>

Mon Dec 30 11:58:17 2013

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Server Configuration

This is where certain panel settings are configured, and is accessed by clicking the “Server Configuration” link as the content itself is quite long it cannot be shown with a screen capture – When this link is open scroll down to see all the possible configuration settings. On screen descriptions are provided to describe function and use.

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

logged in as <admin>
Logout

Server Configuration

LYNX APPolo | Control Server - RELEASE 7.1.1
last restart: 2013-12-30.11-33-16

This is the list of modifiable application parameters and their current values.
You can modify one or more settings and click **Apply Changes** below to change the configuration.

LOCATE_TIME

Value:

Range: 100 ... 36000

Default: 600

Description: When starting a device's Locate function (flash yellow Master LED), the device will resume normal Master LED mode after (approximately) this many seconds.

LOGFILE_MAX_BACKUP

Value:

Range: 0 ... 100

User Management

If you wish to add more user accounts to the panel then it is done here. You can also modify the existing default admin and ctrl accounts if you wish. Defaults are:

Name: **admin** password: **lynx\$admin**

Name: **ctrl** password: **lynx\$ctrl**

Note. All panels and software clients which connect to this panel need to have their usernames and passwords changed to match the new settings or they will not be able to connect.

RCP5044
LYNXTechnik AG
Broadcast Television Equipment

APPolo™ Control

logged in as <admin>
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Last Analysis Result

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User Defined
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User Management

LYNX APPolo | Control Server - RELEASE 7.1.1
last restart: 2013-12-30.11-33-16

Register new user

username

password

retype password

Registered users

Username	Change Password	Delete
admin	new password <input type="password"/> retype password <input type="password"/> <input type="button" value="Change password"/>	---
ctrl	new password <input type="password"/> retype password <input type="password"/> <input type="button" value="Change password"/>	<input type="button" value="Delete user"/>

Remote clients can connect to this RCP5044 server (and the LYNX devices connected to it) by logging in as one of these registered users.

Mon Dec 30 12:02:31 2013

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System Setup

This is where the network settings are made for the panel. Typically the only change you will make is to the IP address field, entering in a unique IP address for the panel in multiple panel installations. The other settings can be left unchanged.

Generally, when connected to a house network when defining IP addresses and making any changes to the other network settings it is highly recommended you speak with your network administrator first to avoid any potential problems or conflicts.

RCP5044 **LYNXTechnik AG**
Broadcast Television Equipment

logged in as <admin>
Logout

Control

APPolo

System Setup

LYNX APPolo | Control Server - RELEASE 7.1.1
last restart: 2013-12-30.11-33-16

Network Configuration

IP Address:
 Netmask:
 Gateway:
 DHCP:

Miscellaneous

System Time:
 (Format: YYYY/MM/DD hh:mm:ss)
 Explicit restart of LYNX server applications

System Info

Device type: RCP5044
 Panel version: 2.00
 Build: COLIBRI_519.11
 Watchdog: LYNX Server Watchdog - RELEASE 7.1.1 (build 588, Nov 25 2013, 12:51:08)
 Serial number: [unknown]

Logfiles

clear log history

Mon Dec 30 12:04:51 2013

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Specifications *(R CP 5044)*

Controls

Push Button	4 LCD matrix ASCII display push buttons. Red / Green / Blue
Rotary	4 x incremental digital rotary controls with push to select function.
Navigation	4 x push buttons (UP – DOWN – LEFT – RIGHT)

Display / LEDs

Matrix Display	2 line 40 character Blue LED alphanumeric display
LEDs	Multicolor selection LEDs provided above each rotary control

Connections

Serial	RJ 45 connector RS 232 connector
LAN	RJ 45 connector 100 baseT
DC Power	4 – pin locking Molex Mini Fit connector for connection of external DC power supply

Electrical Specifications

Operating Voltage	+12 VDC
Power Consumption	<10W
Safety	IEC 60950/ EN 60950/VDE 0805

Mechanical

Size	Standard 19" rack mount x 1 RU high x 157mm deep
Weight	2 Kg

Ambient

Temperature	5°C to 40°C Maintaining specifications
Humidity	Max 90% non condensing

Supplied Accessories

Documentation	R CP 5044 Quick Start Guide Manual CD APPolo SW CD
Power Supply	IEC 12V/1A
Other	Network Cable (RJ45)

Service

Parts List

Due to the very dense design and high level of integration there the module is not user serviceable. Please contact LYNX for repairs or to request an exchange unit.

Technical Support

If you are experiencing problems, or have questions please contact your local distributor for further assistance.

Technical support is also available from our website.

Please do not return products to LYNX without an RMA. Please contact your authorized dealer or reseller for more details.

More detailed product information and product updates may be available on our web site:

www.lynx-technik.com

Contact Information

Please contact your local distributor; this is your local and fastest method for obtaining support and sales information.

LYNX Technik can be contacted directly using the information below.

Address LYNX Technik AG
 Brunnenweg 3
 D-64331 Weiterstadt
 Germany

Website www.lynx-technik.com

E-Mail info@lynx-technik.com

LYNX Technik manufactures a complete range of high quality modular products for broadcast and Professional markets, please contact your local representative or visit our web site for more product information.

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