WebConfig
Basic Information

WebConfig

Version 3.1

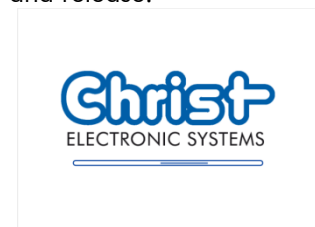# Content

Loading page

Start WebConfig

To start the WebConfig click the left bottom corner (1)

and release.

After this click the left top corner (2)

and release.

Tab the two buttons in an interval of 1.5 seconds one after another.

Show failures

To show the failures occuring while loading the website click the right bottom corner (3)

and release.

After this click the right top corner (4)

and release.

Tab the two buttons in an interval of 1.5 seconds one after another.

WebConfig
Basic Information

WebConfig

1. Return
2. Password: The standard password is: christ
3. Show password: To show the password in plain text click on this icon
4. Login: To login to the WebConfig click the login button
5. Menu
6. Reboot
7. Shutdown
8. Language: Change language. (Available: German, English)
9. Keyboard: The standard on screen keyboard will be enabled by this option
10. Dark mode

Taskbar
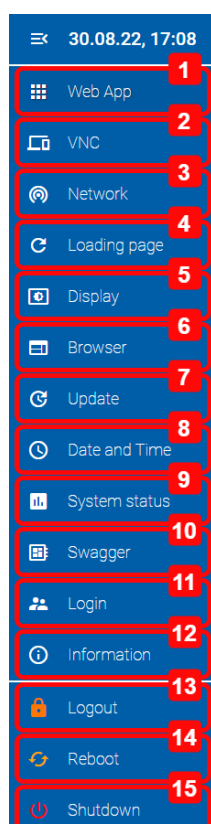
1. Web App configuration
2. VNC configuration
3. Network configuration
4. Loading Page configuration
5. Display configuration
6. Browser configuration
7. Update
8. Date and Time configuration
9. System status
10. Swagger
11. Login configuration
12. Information
13. Logout from the WebConfig
14. Reboot the system
15. Shutdown the system

WebConfig
Basic Information

Web App configuration

Web App
In the "Web App" menu item

1. Protocol: Select the protocol used:
   - http://
   - https://
   - local (for a locally hosted website. Files must be stored in folder /usr/share/webconfig/local)
2. URL: Add the URL where to start
3. Start delay: Setting a start delay - This is the waiting time until the browser redirects to the URL
4. Ignore CURL test on startup: To deactivate the CURL test on starting up of a webpage check this box.
   Information on this configuration: The reachability of the URL is not checked with CURL at startup. This can speed up the start-up process.
5. Stop webconfig server: To terminate the Webconfig server after the successful connection with the WebApp, this option must be enabled.
   Information on this configuration: Webconfig server will be shut down after entering webapp. You can enter the webconfig only directly after a reboot. This can increase the performance of the Webapp.
6. Save
7. Test URL – Note the entry Test Connection

Check connection
In the "Web App" menu item under "Test URL"

1. Protocol: Select the protocol for the connection check
2. URL: Enter the URL for the connection check
3. Timeout: Select a timeout
4. Apply: This will write the entered protocol and URL to the standard settings. To save it finally it is necessary to click on Save in the Web App configuration (Number 6).
5. Cancel
6. Test: This will thest the connection. The state will be showed in the line above.

Show Result
In the "Web App" menu item under "Test URL"

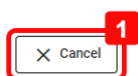1. Cancel: This will close the result window.

WebConfig
Basic Information

VNC configuration

VNC

In the "VNC" menu item

1. VNC: To open the VNC connection - instead of the Web App - after restarting the device, activate this option
2. Host: Enter the IP address of the host
3. Port: Enter the port of the VNC server
4. Username: Enter the username to connect to the VNC server
5. Password: Enter the password for the connection to the VNC server
6. Scale viewport: If enabled the remote session will be scaled to Viewport
7. Scale fullscreen: If enabled the VNC connection display will be scaled to the width of the viewport. Attention: It may lead to distortion of the image.
8. Switch red and blue: This option can be set if the colours red and blue are displayed reversed in the VNC display.
9. Quality level: This slider changes the quality of the displayed JPEG images. Setting 0 means low quality and setting 9 means high quality.
10. Compression level: This slider changes the compression of the VNC display transmission. The setting 0 means no compression. The Level 1 setting means little compression and the Level 9 setting means high compression. High compression is recommended for slow network connections.
11. Background color: Change the background color for VNC viewer
12. Save

WebConfig
Basic Information

Network configuration

Network settings
In the "Network" menu item

1. Hostname: Change the hostname by clicking in the textfield
2. Tab - Ethernet adapter: To change the ethernet adapter switch here.
3. DHCP:
   - If this checkbox is checked, the dynamic network informations are configured. The configurations 4-7 are no more possible to change.
   - If this checkbox is unchecked, the static network informations are configured. The configurations 4-7 are possible.
4. IP4 Address
5. Netmask
6. Gateway
7. DNS
8. Ping: It is necessary to configure and save the network settings before using the ping function. It is possible to check if the device can ping another device inside the network. Therefore it is necessary to enter the IP of the other device.
9. Refresh: This will refresh the network information.
10. Save

Ping
In the "Network" menu item under "Ping"

1. IP3-IP0: IP address to be pinged
2. Cancel
3. Ping
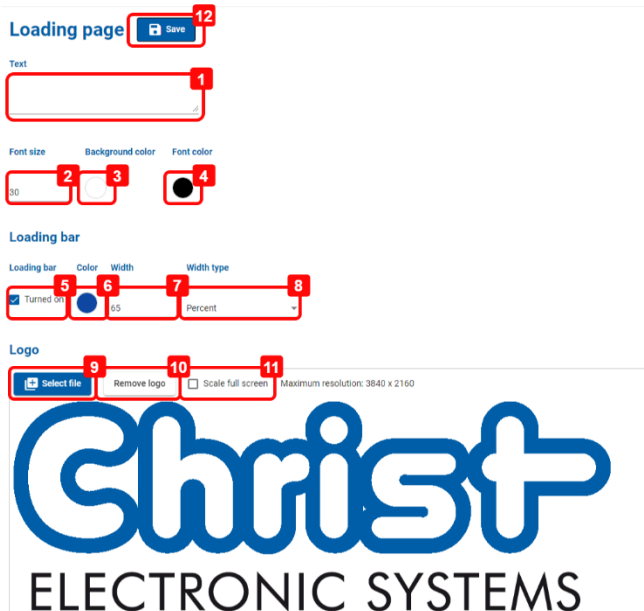
Loading Page configuration

Loading page
In the "Loading Page" menu item

1. Text: Change the Starting text
2. Font size: Change the Font size
3. Background color: Select the Background color
4. Font color: Select the Font color
5. Turned on: Enables the loading bar
6. Loading bar color: Select the Loading bar color
7. Loading bar width: Configure the loading bar width
8. Loading bar width type: Select the loading bar width type. The options are percent and pixel.
9. Select file: This option is only available when entering the WebConfig from an external device for example from a desktop PC. (See chapter -> Remote access)
   To change the Logo the image has to be selected on the external device. To save the new image it is necessary to cut the picture. Refer to the next picture.
10. Remove Logo: This option is only available when entering the WebConfig from an external device. (See chapter -> Remote access) This option will delete the Logo.
11. Scale full screen: This option is only available when entering the WebConfig from an external device. (See chapter -> Remote access)This option will scale the picture to full screen at the loading page.
12. Save

WebConfig
Basic Information

Change Logo

In the "Loading Page" menu item under "Logo"

1. Crop Image: After selecting a file it is necessary to crop the image before saving the changes.
2. Scale: If the selected picuture is to big, it is possible to scale it.

WebConfig
Basic Information

Display configuration

Display

In the "Display" menu item

1. Backlight level: This will change the brightnesslevel of the device instantly. Possible values are: 1 to 7.
2. Time until dimming: To add an energy saving timeout, select a time here. After the time is up, screen saver is activated. To bright up the display it is necessary to click on it.
3. Time until complete dimming: To add a blanking time, select a time here. After the time is up, the backlight will be switched off. To bright up the display it is necessary to click on it.
4. Rotationangle: To rotate the display select a rotationangle here.
5. Turned on: The standard on screen keyboard will be enabled by this option
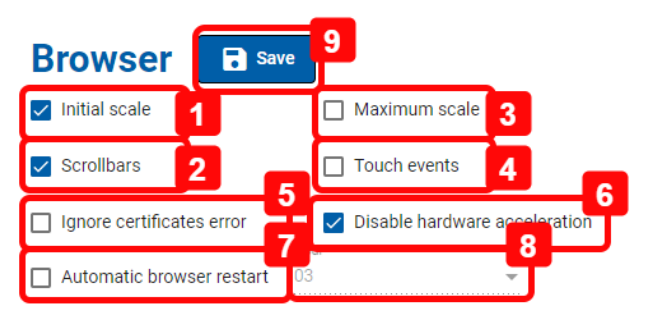6. Save

WebConfig
Basic Information

Browser configuration
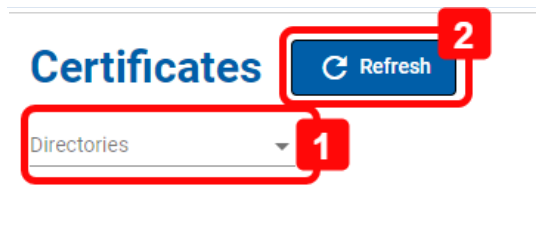
Browser
In the "Browser" menu item

1. Initial scale: If the startpage is scaled incorrectly check this box
2. Scrollbars: Enables the scrollbars in the browser
3. Maximum scale: If the startpage is scaled incorrectly check this box
4. Touch events: Enables the touch events
5. Ignore certificates error: Just for x86 devices. Enables the option to display the start URL with the https protocol even though there is a certificate error. **Warning! By activating this option, you run the risk that a website can cause damage to your system!**
6. Disable hardware acceleration
7. Automatic browser restart: Enables the automatic browser restart at the configured time
8. Hour: Configures the time for the browser restart
9. Save

Manage certificates
In the "Browser" menu item in the "Certificates" subsection
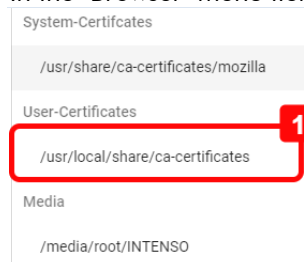

1. Directories: Display and manage certificates – For further information refere to chapter Managing certificates
2. Refresh

Show imported certificates
In the "Browser" menu item in the "Certificates" subsection

1. The user certificates are displayed under "User Certificates". This generated folder is only displayed after the import and a restart of the browser. To display the list with user certificates, directories must be clicked in the Browser menu. This folder is stored on the device and the certificates in this folder are used by the browser. The name of the folder depends on the architecture (ARM or x86).

Import certificates

In the "Browser" menu item in the "Certificates" subsection

1. Directories: To display all available certificates click on directories

2. Select folder under "Media", which displays the content of the inserted USB stick. It's necessary to input a USB-Stick to the device which contains the certificate in the root folder. If no certificate is shown click on refresh.

3. Select the certificate which should be impored
4. Import: The certificate will be imported. In case it's the first import of a user certificate, a new folder on the device will be generated.

After this the browser will restart and the following hints are displayed:
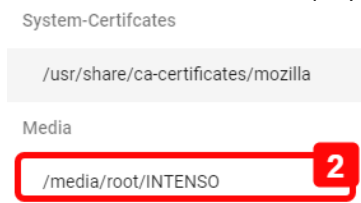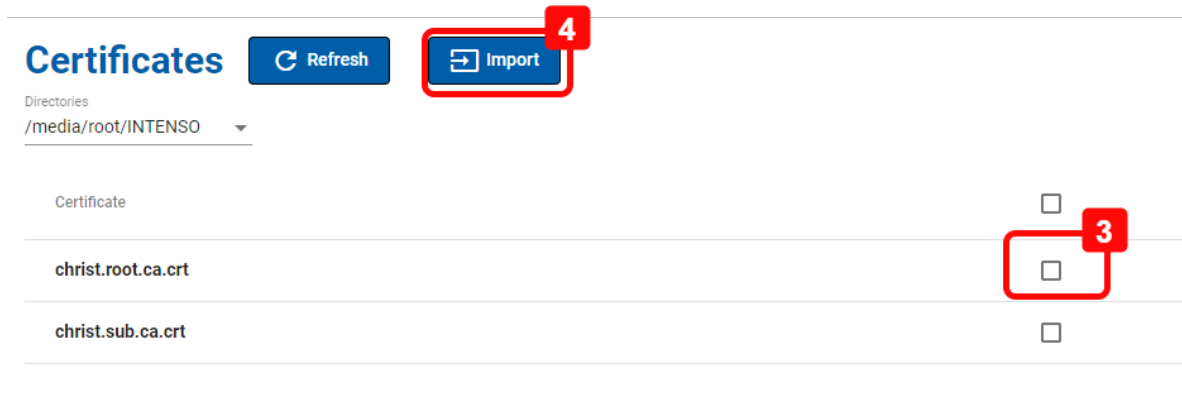

It's not necessary to click on it.

Delete certificates

In the "Browser" menu item in the "Certificates" subsection

 Browser

1. Directories: To display all available certificates click on directories
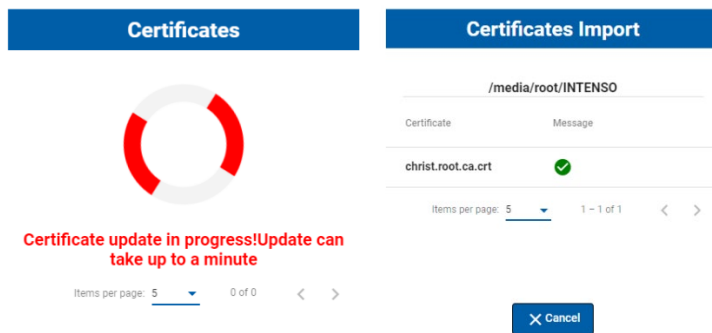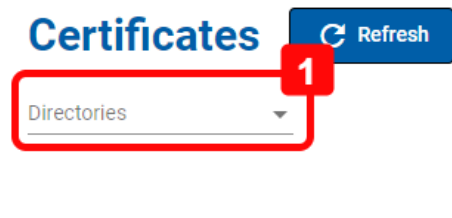

2. Click on the folder with the user certificates
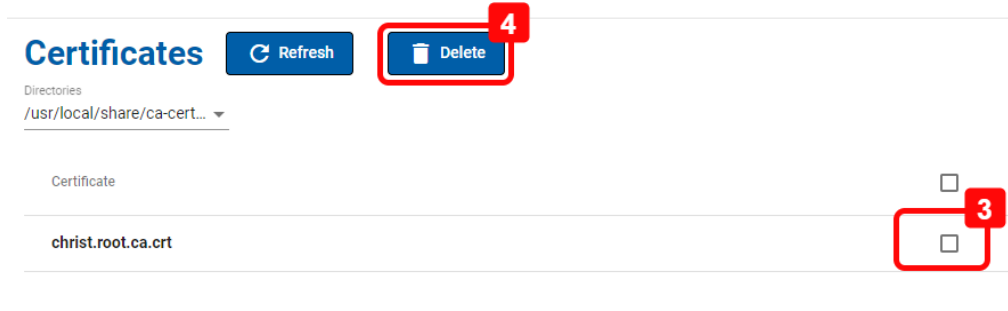
3. Select the certificate which should be deleted
4. Delete: The certificate will be deleted. In case it's the last user certificate, the folder on the device will be deleted too.

After this the browser will restart and the following hints are displayed:
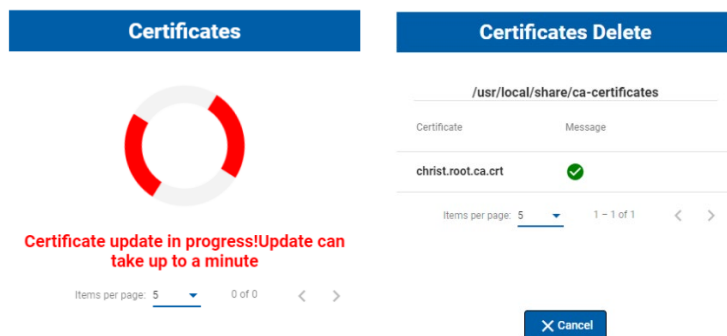
It's not necessary to click on it.

After the browser restart, the certificate is no longer available in the folder or, in the case described above, the folder is also deleted. To show this list click on Directories (1) in the menu Browser.

WebConfig
Basic Information

Update

RAUC Update
In the "Update" menu item in the "RAUC" subsection

1. Update from USB: To update the system from USB an USB device containing the new version has to be plugged in.
2. Select File: This option is only available when entering the WebConfig from an external device. (See chapter -> Remote access)
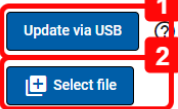   To update the system from a file the new version has to be selected on the external device.

CURT Update
In the "Update" menu item in the "CURT" subsection

1. Start CURT (Christ Update and Recovery Tool): CURT is the update tool. Please refer to the CURT documentation. By clicking this button it is necessary to have a USB-Device plugged in to the device with the CURT software. The USB-Device has to contain also the new image file. Start CURT is rebooting the system and after rebooting the CURT is starting.

Factory Reset
In the "Update" menu item in the "Factory Reset" subsection

1. Factory reset: To reset the configurations this button has to be clicked.

Date and Time

Date and Time

In the "Date and Time" menu item

1. NTP: This option enables the NTP Server. To change the date and time manually this option has to be deactivated.
2. Time zone: Select time zone
3. Date: To change the date manually the option NTP (1) has to be deactivated.
4. Hour: To change the time manually the option NTP (1) has to be deactivated.
5. Minute: To change the time manually the option NTP (1) has to be deactivated.
6. Save

Timezone

In the "Date and Time" menu item under "Time zone"

1. Arrows left and right: Search for the time zone group
2. Select a time zone by clicking on it
3. Time zone: Select the time zone
4. Canel
5. Ok: To save the selected time zone – Click the save button in the screen before

System status information

Systemperformance

In the "System status" menu item in the "System performance" subsection

System status

Systemperformance

Uptime: **0d 1h 49min 24s**

CPU utilization: **3 %**

RAM utilization: **19 %**

CPU Temperature: **37°**

1. Systemperformance: This shows information about the current systemperformance

USB and Storage Information

In the "System status" menu item in the "USB and Storage information" subsection

System status

USB and storage information

⚡ USB	5	⌄
💾 Storage	8	⌄

1. USB and Storage Information: This shows information about the current USB and Storage.

WebConfig
Basic Information

Swagger

Swagger
In the "Swagger" menu item in the "Backlight" subsection

1. Selecting an API endpoint: The methods for this endpoint are shown
2. Selecting a method: The description of this method is shown
3. Try it out: To check the endpoint and its method click on try it out

Try it out
In the "Swagger" menu item in the "Backlight" subsection

1. Cancel: Cancel the check
2. In this example: Execute the GET method for the endpoint backlight

WebConfig
Basic Information

Response
In the "Swagger" menu item in the "Backlight" subsection

1. Execute the method again
2. Clear the operation
3. Response

WebConfig
Basic Information

Login configuration

Login
In the "Login" menu item

1. Current password: Enter the current password.
2. New password: Enter a new password. It has to have between 6 and 16 characters without space.
3. Validate new password: Enter the new password again.
4. Show password: To show the password (1-3) in plain text.
5. Save

WebConfig
Basic Information

Information

Export system information
In the "Information" menu item

 Information

1. Export system information: A USB stick must be connected to the device in order to export the system information. The function of the button is to generate a .txt file into the root directory on the USB Stick.

Product information
In the "Information" menu item in the "Product information" subsection

 Information

Product information

Product ID	PA10004647
Revision	2
Serial number	0110837-000-001

1. Product information: This are the same informations as on the label on the back of the device

System information
In the "Information" menu item in the "System information" subsection

 Information

System information

Operating system	Linux
Kernel	5.10.0-8-amd64
Browser version	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/104.0.0.0 Safari/537.36
Webconfig version	3.0.0
Distro version	11"
RAUC compatible	✓

Hardware information
In the "Information" menu item in the "Hardware information" subsection

 Information

Hardware information

Architecture	x64
CPU type	Intel(R) Celeron(R) CPU N3350 @ 1.10GHz
RAM	3866 Mb
Resolution	800w x 480h

License information
In the "Information" menu item in the "License" subsection

 Information

License
Webconfig license information

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
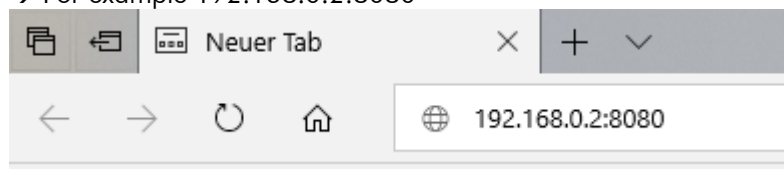
WebConfig
Basic Information

Remote access

In order to access the WebConfig remotely from another device (for example a desktop PC) in the network, the device IP address must be entered in the browser's address bar of the desktop PC. The IP needs to be followed by the port 8080. IP and Port are devided by ":".

→ For example 192.168.0.2:8080

You can find the device IP address in the Network menu (see Chapter "Network" → IP 4-Adress).

Screenshot

In order to take a screenshot of the current screen of the WebPanel, connect remotely to the WebPanel (refer to "Remote access").
Enter the command "<IP-Address of the WebPanel>:8080/api/screenhot/file" to the browser's address bar and click "Enter".
After clicking "Enter" the download starts automatically and the picture is downloaded to the "Downloads" folder of the desktop PC.

Disclaimer

Contact
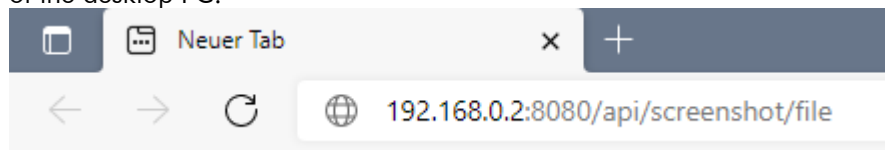
Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Christ Electronic Systems GmbH
Alpenstraße 34
87700 Memmingen

Phone:
+49 8331 8371-0 (Main Office)
+49 8331 8371-500 (Service)

Mail:
info@christ-es.de

Homepage:
https://www.christ-es.com

© Christ Electronic Systems GmbH