





WebConfig

Version 3.2

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Start WebConfig

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





After this click the left top corner (2)



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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)



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





- 2. Password: The standard password is: christ
 - 2.1. Assign a new password: after factory reset, the standard password is "christ". The password must be changed to a new one. The password must be at least 8 characters long and contain at least one number. Spaces are not permitted.
 - 1. Cancel
 - 2. Confirm: the password will change
- 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 only accessible on the panel
- 7. Shutdown only accessible on the panel
- 8. Language: Change language. (Available: German, English)
- 9. Keyboard: The standard on screen keyboard will be enabled by this option
- 10. Dark mode

v	password	ø

Validate nev

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<u>Taskbar</u>



- 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





Web App configuration

e b App he "Web App" menu item		 Web App
eb App 🕞 save 6 🗢 Test URL 7		
col //	1	
host:8080	2	
felay in seconds	3 seconds	
Ignore CURL test on startup ② 4 Stop webconfig server ③ 5		

- 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.
- Stop webconfig server: To terminate the Webconfig server after the successful connection with the WebApp, this option must be enabled. <u>Information on this configuration</u>: 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"

Check connection		
Connection	Result	_
Protocol http://		1
URL localhost:8081		2
Timeout 1 s		3
× Press Test		
Apply 4	5 × Cance	l ← Test

- 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
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Web App



Web App

WebConfig Basic Information

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"

Connection	Result	
ended connection re	esults	

1. Cancel: This will close the result window.

VNC configuration



Background color



- 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. Static page: This option can be set if a static page is to be displayed and the connection to the static page is repeatedly interrupted.
- 10. Quality level: This slider changes the quality of the displayed JPEG images. Setting 0 means low quality and setting 9 means high quality.
- 11. 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.
- 12. Background color: Change the background color for VNC viewer
- 13. Save



VNC



Network configuration



- 1. Hostname: Change the hostname by clicking in the textfield
- 2. Tab Ethernet adapter: To change the ethernet adapter switch here.
- 3. DHCP for All-In-One devices only available as service mode, it is not recommended for productive use
 - 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. Save
- 9. Refresh: This will refresh the network information.
- 10. 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.
- 11. External webconfig access allowed: Attention! Activating this option makes the Webconfig accessible in the network requests can be sent from any client in the network

Ping

In the "Network" menu item under "Ping" Network ping Adapter eth1 Press ping Cancel Ping 1. IP3-IP0: IP address to be pinged

- 2. Cancel
- 3. Ping
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Loading page

C

WebConfig Basic Information

Loading Page configuration

Loading page





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- 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



Change Logo

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

C Loading page

This option is only available when entering the WebConfig from an external device. (See chapter -> Remote access)



- 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.

Display configuration



- 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





Browser configuration

Browser



- 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. Disable 2d Canvas: Disable hardware acceleration for HTML element "canvas" (2D)
- 6. 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!
- 7. Disable hardware acceleration
- 8. Automatic browser restart: The browser is restarted automatically. Option cannot be deactivated for All-In-One devices.
- 9. Hour: Configures the time for the browser restart
- 10. Save



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



Browser



Show imported certificates In the "Browser" menu item in the "Certificates" subsection	= Browser
System-Certifcates	
/usr/share/ca-certificates/mozilla	
User-Certificates	
/usr/local/share/ca-certificates	
Media	
/media/root/INTENSO	

 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	on	🖃 Browser	
Certificates	C Refresh		
Directories	J		

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.

Certificates Directories /media/root/INTENSO	C Refresh Import	
Certificate		
christ.root.ca.crt		
christ.sub.ca.crt		

- 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:

Certificates Import
/media/root/INTENSO
Certificate Message
christ.root.ca.crt
Items per page: 5 ▼ 1 − 1 of 1 < >

It's not necessary to click on it.

Delete certificates In the "Browser" menu item in the "Certificates" subsection
Certificates
Directories
Directories

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

System-Certifcates	
/usr/share/ca-certificates/mozilla	
User-Certificates	2
/usr/local/share/ca-certificates	Ţ
Media	-
/media/root/INTENSO	
2 Click on the folder	·······
2. Click off the folder	with the user certificates
Certificates C Refree	sh Delete
Certificates C Refree	sh Delete
Certificates C Refree Directories /usr/local/share/ca-cert •	sh Delete
Certificates Uirectories /usr/local/share/ca-cert • Certificate	sh Delete
Certificates Certificate Certificate Certificate christ.root.ca.crt	sh leete 3

- 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:





Certificates	Certificates Delete	
	/usr/local/share/ca-certificates	
	Certificate Message	
	christ.root.ca.crt	
•	Items per page: 5 👻 1 - 1 of 1 <	>
ificate update in progress!Update can take up to a minute		
Items per page: 5 🔹 0 of 0 < >		

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.



<u>System</u>

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

C System

System Update - RAUC

Update can take up to 7 minutes

A Do not shutdown or remove power source from your device during the process!



- 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.

System Update - CURT In the "System" menu item in the "System Update - CURT" subsection	C System

Christ update & recover 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 "System" menu item in the "Factory Reset" subsection	C System	
Factory resot		

Factory reset

Reset your device to factory settings

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



Backup (only available for Imx8 based panels) In the "System" menu item in the "Backup" subsection		C System	
Export and Import Configuration Export to file Import from file	Only remote accessible (See access)	chapter -> Remote	
Export and Import Configuration	Only available on device – L	JSB device is necess	ary
Export to file – remote access In the "System" menu item in the "Backup" subsection		C System	
Export to file File downloaded successfully 1. Export to file: the image will be download in the screen 2. A success message will appear on the screen	2 Close		
Import from file – remote access In the "System" menu item in the "Backup" subsection		C System	
Import from file Import from file Choose File No file chosen Cancel	3 Import		
 Import from file: an "import from file" dialog w 1.1. Choose File: A tar.gz file must be imported with a panel with the same softwor 1.2. Cancel 1.3. Import: the file will be imported 	ill open ported. The file must be an ex are version	port that was previo	ously
Export to USB In the "System" menu item in the "Backup" subsection		G System	
File downloaded successfully	2 Close		

- 1. Export to USB: when the export is finished, a success message will be displayed
- 2. A success message will appear on the screen













1. Cold-Start: the CODESYS variables are reset. This option is only valid for All-In-One panels.

Language In the "System" menu item in the "Language" subsection	୯	System	



Language

1. Language: Changing the system language (EN or DE)



Date and Time

Date and Time

In the "Date and Time" menu item

 Date and Time
 5

 Save
 6

 NTP
 1

 Time zone
 2

 Europe/Berlin
 2

з

O Date and Time

- UTC: 12.10.23, 13:08 Offset: +02:00
 - 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.

Minute

- 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

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

USB and storage information

ψ́ USB	5	~
Contraction Storage	8	~

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

th



Swagger

WebConfig Basic Information

<u>Swagger</u>

Swagger

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

ackli	ght2	^
GET	/backlig t	/
Returns t	the value of backlight	
Paramete	ers	Try it out
No paran	neters	
to paran	nauna a	
Respons	ses	
Code	Description	Links
:00	successfull response	No links
	Media type	
	application/json	
	Example Value Schema	
	("backlight": 0	

- 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 i In the	t out = "Swagger" menu item in the "Backlight" subs	ection 🖽 Swagger
Backli	ght	^
GET	/backlight	^
Returns t	he value of backlight	
Paramete	rs	Cancel
No paran	heters	
	Execute	2
Respons	es	
Code	Description	Links
200	successfull response	No links
	Media type application/json controls Accept header.	
	Example Value Schema	
	Tuacklight": 0	

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





lesp o n the	onse "Swagger" menu item in the "Backlight" subsection	🖽 Swagger
GET	/backlight	^
eturns the	value of backlight	
rameters		Cancel
o parame	iers	
	<mark>0</mark>	2
	Execute Clear	
esponse		
		3
uri		
http://192. -H'accept:	166.100.51:8080/api/backlight \ application/json'	Ē
equest UR		
http://19	2.168.100.51:8080/api/backlight	
ode	Details	
00	Response body	
	{ Tuacklight": 7 }	🔁 Download
	Response headers	
	access control-allow-origin: * content-langth: 15 content-langth: 23 date: White Solution joint, charset=utf-8 edag: WT-Solutionmy3JLstd-6HT edag: WT-Solutionmy3JLstd-6HT synoweak-by: Express	
Responses		
ode	Description	Links
:00	successfull response	No links
	Media type application/json Controls Accept header.	

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



Login configuration



- 1. Current password: Enter the current password.
- 2. New password: Enter a new password. The password must be at least 8 characters long and contain at least one number. Spaces are not permitted.
- 3. Validate new password: Enter the new password again.
- 4. Show password: To show the password (1-3) in plain text.
- 5. Save





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.

roduct information the "Information" menu item in the "Product information" subsection		() Informatio	
Product infor	mation		
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 ite	 Information 	
System information		
Operating system Kernel	Linux 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 ite	em in the "Hardware information" subsection	(i) Information
Hardware info	ormation	
Architecture	x64	
CPU type	Intel(R)	Celeron(R) CPU N3350 @ 1.10GHz
RAM	3866 M	b
Resolution	800w x	480h
License information In the "Information" menu ite	em in the "License" subsection	(i) Information
License		
he MIT License		
ermission is hereby granted, free of charge, to any person obtain ublish, distribute, sublicense, and/or sell copies of the Software,	ing a copy of this software and associated documentation files (the "Software"), to deal in the Softwar and to permit persons to whom the Software is furnished to do so, subject to the following conditions:	e without restriction, including without limitation the rights to use, copy, modify, merge,
he above copyright notice and this permission notice shall be inc	cluded in all copies or substantial portions of the Software.	
	ANY KIND EXTRESS OF IMPLIED INCLUDING BUT NOT LIMITED TO THE WARDANTIES OF MERCHANT	TABLETY FITNESS FOR A DARTICLE AR DURDOSE AND NONINERINGEMENT IN NO EVEN





Remote access

There are following ways to access the device through the network:

Option one

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

🕒 🖅 🗔 Neuer 1	ab	\times + \sim
$\leftarrow \rightarrow $ U	ណ៍	⊕ 192.168.0.2:8080

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

For All-In-One devices the port is changed to 8081.

Option two

To access the WebConfig remotely from another device in the network, it is possible to enter the device host name (by default it is defined with the prefix "christ-" and the serial number of the device) must be entered in the browser's address bar of the desktop PC. The host name needs to be followed by the port 8080. Host name and Port are devided by ":".

→ For example christ-0000000-000-007:8080

Network settings Hostname christ-0000000-000-007 christ-0000000-000-007 x i christ-0000000-000-007

You can find the device host name in the Network menu (see Chapter "Network" \rightarrow host name).



WebConfig

Basic Information

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.



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