



Web Computer Administration Tool

WebCAT

User Manual

Version: WebCAT/EN UM/E50
11/2020

← → ↻ 10.22.91.32:8443/#/boards/ ☆ ⓘ ⚙ ⏻

Schneider Electric (10.22.91.32 / C53_PME_IM1) Connected with user 'DefaultEngineer'. Version: 1.5.0 [Log out](#) [Choose language](#) ⓘ ⚙ ⏻

[General information](#) [Hardware status](#) [Applicative settings](#) [System parameters](#) [Events and states](#) [Database](#) [Software](#) [Services](#)

🔄 Refresh ☐ Automatic refresh Last refresh at

6 DI + 4 DO	6 DI + 4 DO	5CT-4VT	PSU30H-DI-DO	6 DI + 4 DO	COM_HSR_PRP
<div>DI 1 0 2 0 3 0 4 0 5 0 6 0</div> <div>DO 1 0 2 0 3 0 4 0</div>	<div>DI 1 2 3 4 5 6</div> <div>DO 1 2 3 4</div>	<div>AI 1 2 3 4 5 6 7 8 9</div>	<div>DI 1 2 3 4</div> <div>DO 1 2 3 4</div>	<div>DI 1 2 3 4 5 6</div> <div>DO 1 2 3 4</div>	Not configured
1	2	3	4	5	7

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Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

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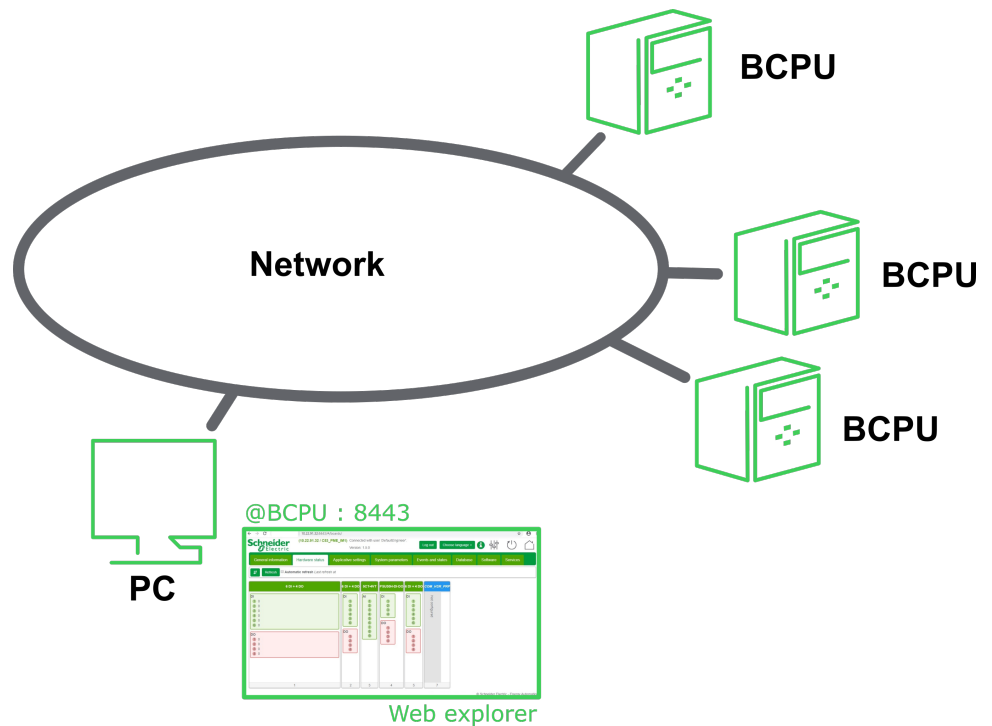
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Introduction

Web Computer Administration Tool (WebCAT) is a web client tool to manage Bay Control and Protection Unit (BCPU), it allows operator to check the status of the BCPU, manage his hardware, software and database configuration, check the input/output state or value, manage settings.

Web Computer Administration Tool (WebCAT)



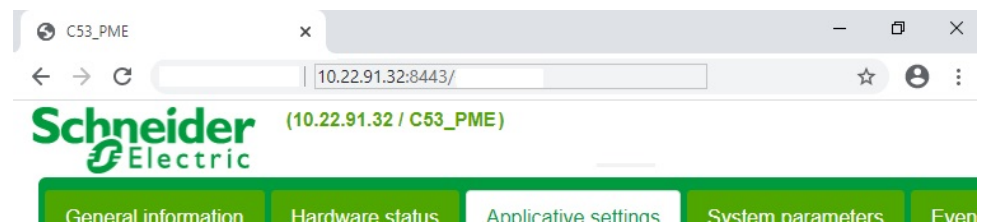
Prerequisite

WebCAT is a web application, there is no software installation. It requires to have an Web Explorer compatible.

The operator uses WebCAT in a secured environment, the computer, smartphone or any equipment used to run WebCAT should be in conformity with the Cyber Security.

Launch WebCAT

Launch a web explorer compatible, enter the IP address of the BCPU to manage on the address bar of the web explorer.

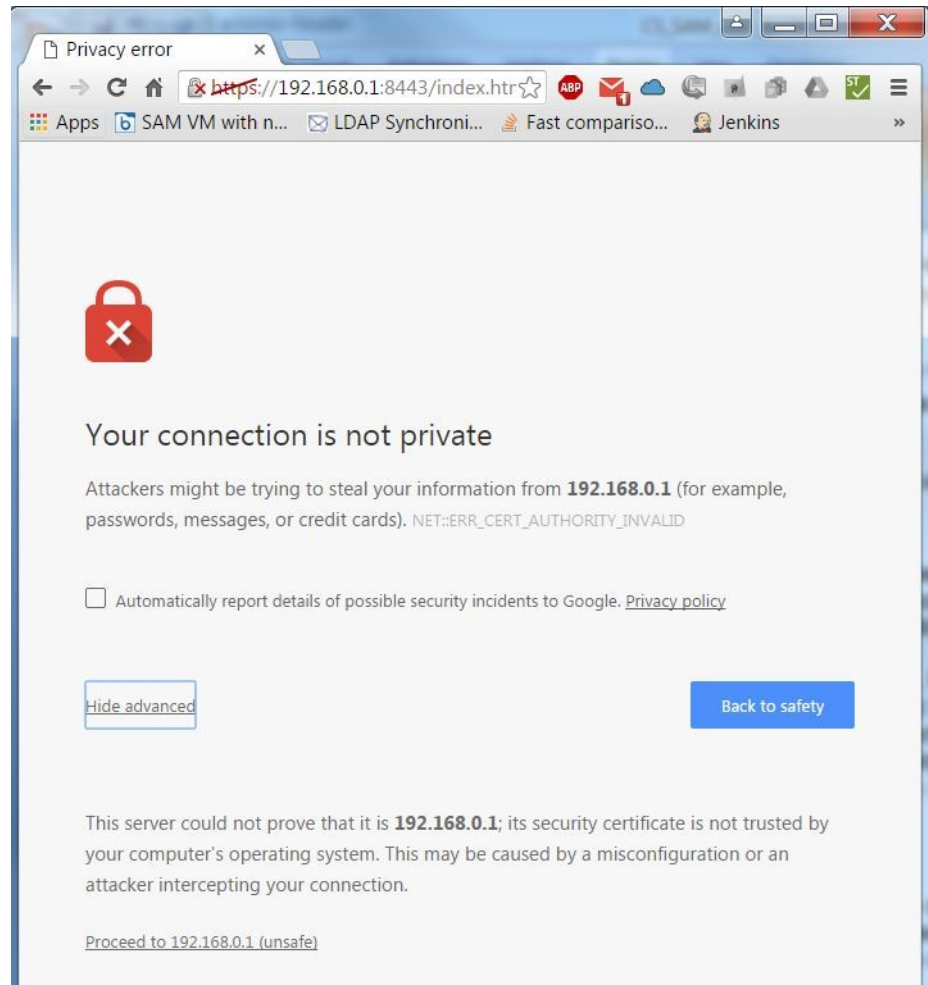


In example above, the operator enter "https:\\10.22.91.32:8443" on the address bar of web explorer, this is the IP address of the BCPU C53_PME, the "8443" is the communication port number used for WebCAT.

NOTE: The default IP address of BCPU is available in its documentation. For example: the default IP address of BCPU type C5 is 192.168.1.21.

NOTE: It works with https not with http.

NOTE: You may receive a message indicating that the certificate cannot be trusted (Google Chrome sample). Then proceed to the unsafe IP address of the BCPU.



A login page appears, (see Login, page 11 for details).

Cyber Security

Cybersecurity is a set of rules, methods, and technical features improving the quality of services and minimizing any risks to interrupt the deliveries resulting from accidental or intentional actions. Device hardening is the process of configuring various settings to strengthen security on devices. It involves password management, access control and disabling all unnecessary protocols and services.

Hardening PC base solution

For PC base solution, hardening Windows/Linux operating systems is applied by following these recommendations:

- Follow Security Bench Mark (CIS)
- Define Internal firewall rules
- Define Services used
- Use Host Intrusion Prevention System (HIPS)
- Use Antivirus protection
- Use Hardening File System management
- Remove remote management privileges
- Apply Systematic patch management
- Apply Methods of least privilege applied to applications and user accounts
- Respect Strong password management
- Respect User account management
- Removing unused / potential dangerous software

Interface and navigation

Interface

The interface of WebCAT is composed by a status bar, a tool bar, and a view with panels. The navigation is done as on a regular web site on internet.

Click on a panel to show it.

A simple click on a button launch an action or open a windows popup (for example: a select file explorer).

Top line bar



(10.22.91.32 / C53_PME_IM1)

IP address of the BCPU / the BCPU name

Connected with user 'DefaultEngineer'.

Version: 1.5.0

- Name of user logged on WebCAT
- Version of the WebCAT



- **Log out** To disconnect from the BCPU.
- **Choose language** To change the language.
- **i** To have information about selected tab.
- **⚙️** To show settings in applicative setting tab.
- **🔄** To restart the BCPU.
- **🏠** To come back to the Generation Information tab.

Generic buttons

In several views, the same following buttons can be found :

- **Refresh** Refresh the data displayed.
- ☐ **Automatic refresh** When checked, data are automatically updated.
- **Apply** Apply the value set on interface to the BCPU.
- **📄** or **Download (.zip)** Download file.
- **🔼🔽** Order the data displayed.


Login

At initial connection the WebCAT requires a login.

Login

Choose language ▾

✕




User

Password

Access to this system is limited to specifically authorized users having received all trainings required by applicable laws regulations and by policies and procedures implemented by the legal entity hosting this system. Unauthorized users may face criminal or civil liabilities and/or penalties. The use of this system may be recorded and monitored for system operations security policy and intellectual property compliance related purposes and any information related to the use of this system may further be disclosed to third parties or law enforcement officials as necessary. Disconnect now if you are not an authorized user or do not agree with the above terms.

☐ Agree with above disclaimer ?

Connect




Enter User and Password, check the “Agree with above disclaimer” and click on

Connect

 to start the WebCAT application.

The display after login success is represented below:



localhost / WTRLVSE098096L

WebCAT v1.9.0

Log out

License REQUIRED

Choose language ▾

ⓘ

🔄

🏠

Maintenance

Connected as DefaultEngineer

General information

Data points

Equipments

Events and states

IED Network

Error Status

Database


Refresh

Last refresh at 15:03:09

Versions

Status

Statistics



Search...

SOFT / VERSION	PACIS_V6_4.600.300.200.1
SOFT / DEVICE_INFO / DEVICE_NAME	WTRLVSE098096L
SOFT / DEVICE_INFO / DEVICE_TYPE	Gateway
SOFT / DEVICE_INFO / DEVICE_COMPANY	Schneider-Electric
SOFT / DEVICE_INFO / DEVICE_DBNAME	???
SOFT / DEVICE_INFO / DEVICE_DBVERSION	0.0

User right

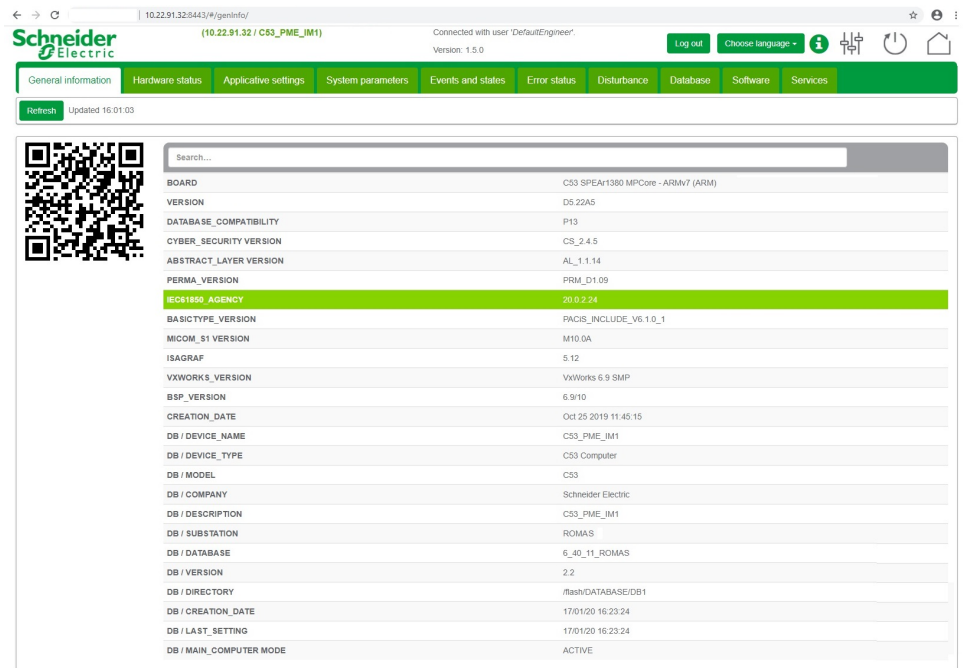
The functions available on WebCAT depends on the User right. The functions available are compliant with CyberSecurity rules of the BCPU.

WebCAT RBAC

The Role Based Access Control (RBAC) is a method to restrict resource access to authorized users. When logging to a computer with WebCAT, the RBAC defined for this computer is used. See the corresponding documentation of the computer for his default RBAC configuration, or the Cybersecurity Admin Expert documentation to modify the roles and access for this computer.

General information displaying

The general information view displays information about the BCPU, there are information as board type, versions information like version of board, of database, of agency... And there is information about database loaded on the BCPU.

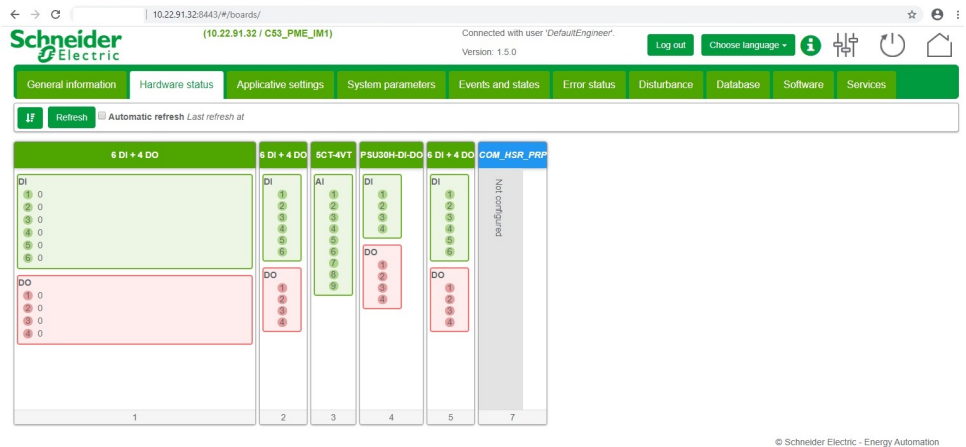


Parameter	Value
BOARD	C53 SPEAr1380 MPCore - AArchv7 (ARM)
VERSION	DS 22A5
DATABASE_COMPATIBILITY	P13
CYBER_SECURITY_VERSION	CS_2.4.5
ABSTRACT_LAYER_VERSION	AL_1.1.14
PERMA_VERSION	PRM_D1.09
IEC61850_AGENCY	20.8.2.24
BASICTYPE_VERSION	PACIS_INCLUDE_V6.1.0_1
MICOM_S1_VERSION	M10.0A
ISAGRAF	5.12
VXWORKS_VERSION	VxWorks 6.9 SMP
BSP_VERSION	6.9/10
CREATION_DATE	Oct 25 2019 11:45:15
DB / DEVICE_NAME	C53_PME_IM1
DB / DEVICE_TYPE	C53 Computer
DB / MODEL	C53
DB / COMPANY	Schneider Electric
DB / DESCRIPTION	C53_PME_IM1
DB / SUBSTATION	ROMAS
DB / DATABASE	6_40_11_ROMAS
DB / VERSION	2.2
DB / DIRECTORY	/flash/DATABASE/DB1
DB / CREATION_DATE	17/01/20 16:23:24
DB / LAST_SETTING	17/01/20 16:23:24
DB / MAIN_COMPUTER MODE	ACTIVE

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Hardware status displaying

Hardware status view shows the status of boards of the BCPU. It shows the data input and the data output status.

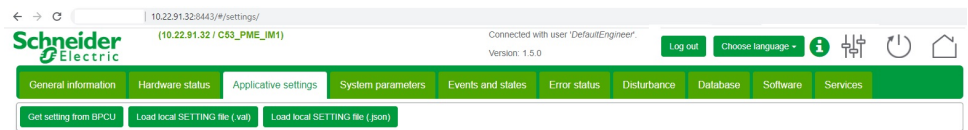


Click on a board to expand it and show details, only one board can be expanded at the same time.

NOTE: The BCPU hardware constitution depends on its configuration. The previous image is given as example. On the image above, the operator click on first board to expand it and show details.

Managing settings

The settings of the BCPU are accessible and settable on Applicative settings view.



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- Get setting button to download setting from BCPU.
- Load local(.val) button to send setting file with format .val to BCPU.
- Load local(.json) button to send setting file with format .json to BCPU.

System parameter settings

This view presents three panels, the system parameters, the switch parameters and date and time.

The screenshot displays the WebCAT interface for system parameter settings. The top navigation bar includes tabs for General information, Hardware status, Applicative settings, System parameters (selected), Events and states, Error status, Disturbance, Database, Software, and Services. The System parameters panel is active, showing a table for Network basic parameters and a section for Routing parameters. The Switch parameters panel is also visible, along with the Date and time panel.

Name	Current value	Modified value
Computer network name	CS3_PME_IM1	Computer network name
IP and subnet mask Num 1	10.22.91.32 : 255.255.255.0	IP Subnet mask
IP and subnet mask Num 2	LOCAL Date	IP Subnet mask

The Date and time panel shows the following parameters:

- LOCAL date: 10/02/2020 10:01:13 day:3, DST:0
- UTC Date: 10/02/2020 10:01:13 3020
- TIMEZONE: UTC+1:00:00:00:00:00:00
- Synchronism: (Not Synchronous) (2)
- Equipment: (Operator)
- Equip. MAC address: 00-00-F4-CC-02-F1
- Equip. IP address: 10.22.91.32
- Equip. accuracy: (Accuracy within 1.5 (ms))
- Equip. state: (Missing) (0)
- Equip. priority: (5)
- IEC61850 Port state: (SLAVE) (5)
- 2500-B interface: (Missing) (0)
- System Master clock: (NO)
- 2500-B input signal: (No 1020-B Signal) (0)
- Synchro TIME-OUT: (100 seconds)
- Broadcasts address: (10.22.91.255), subnetmask: 255.255.255.0
- Average acquisition phase correction: (0000 mSec)

System parameters

This panel is for network parameters, as network name and addresses IP.

On view example given, it is possible to change the network name of the BCPU and to set the IP address and the subnet mask of network board of BCPU.





Enter the value on the corresponding text box field and click on Apply.

NOTE: Any effective change (click on Apply button) on these parameters reboots the BCPU. The communication of WebCAT with BCPU is lost.

Switch parameters

This panel manages the setting of the switch board, it allows users to show and to modify setting. Switch board are optional board of BCPU, it extends network functionality of the BCPU. For example, switch board managing HSR/PRP protocols, RSTP...

HSR/PRP switch board parameter

Switch parameters		
Refresh Apply Default settings		
GENERAL_INFO		
VERSION		1
HARDWARE	Fusion	HSR_FO_LC
FPGA		USER
EEPROM		OK
EXT_PWR		0
PSU_USE		IED_PWR
TRA	LC;100BASE-FX/AVAGO;HFBR-57ESAPZ;53deg;3316mV;53mA;22uW;17uW	OK
TRB	LC;100BASE-FX/AVAGO;HFBR-57ESAPZ;55deg;3314mV;58mA;24uW;0uW	RX_OFF
FLASH	start	IDLE
ETH_MAC_S		00-80-F4-CC-2C-25-8
ETH_MAC_I		02-80-F4-19-03-69
EXTPWR		OFF
GENERAL_CONFIGURATION		
IP_ADDR		10.22.91.34 
MULTICAST_00		00-00-00-00-00-00 
MULTICAST_01		00-00-00-00-00-00 
MULTICAST_02		00-00-00-00-00-00 

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NOTE: For detail about the setting available on this panel, please refers to the documentation of the switch board.

Date and time

This panel is for the date and time of the BCPU. The panel shows details like Local and UTC date, the timezone and information about the synchronization of the BCPU. The informations displayed depends on the BCPU type.


Click on Set to open the view to set date and time.

Date and time

Refresh

Set

2020/02/05



↑

↑

16

:

06

↓

↓

Apply

Cancel

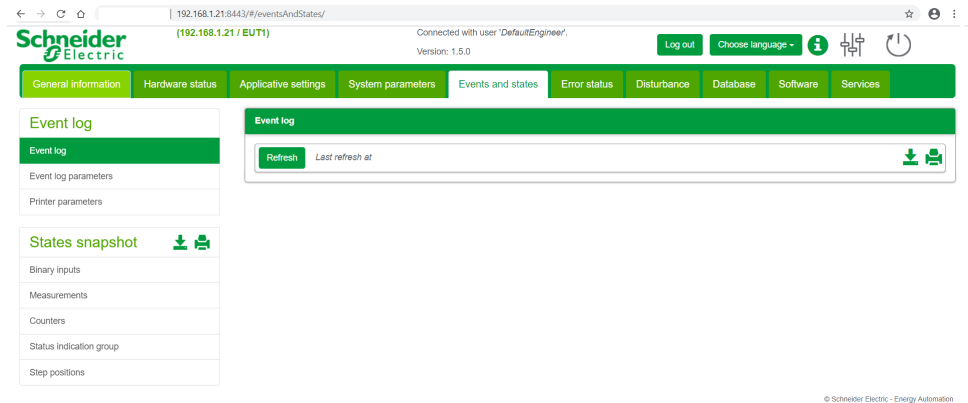
LOCAL Date :05/02/2020 16:04:07 day:3, DST:0
UTC Date :WED FEB 05 15:04:07 2020
TIMEZONE :UTC+1::-60:032902:102503
Synchronism :Not Synchronous (2)
Equipement :Operator
Equip. MAC address :00-80-F4-CC-32-F1
Equip. IP address :10.22.91.32
Equip. accuracy :Accuracy within 1 S (0x2F)
Equip. state :Missing (0)
Equip. priority : (5)
IEC61588 Port state :SLAVE (9)
IRIG-B interface :Missing (0)
System Master clock :NO
IRIG-B input signal :No IRIG-B Signal (0)
Synchro TIME-OUT :180 seconds
Broadcasts address <10.22.91.255>, subnetmask =0x00FFFFFF
Average Acquisition phase correction :0000 micros

Set the date and or time and click on Apply.

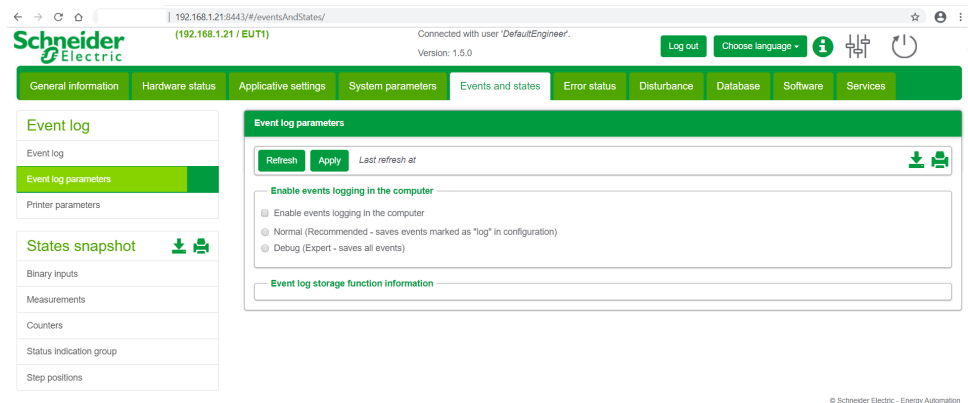
Events displaying

The events and states view display the event log and the states as binary inputs, measurements counters...

Event log

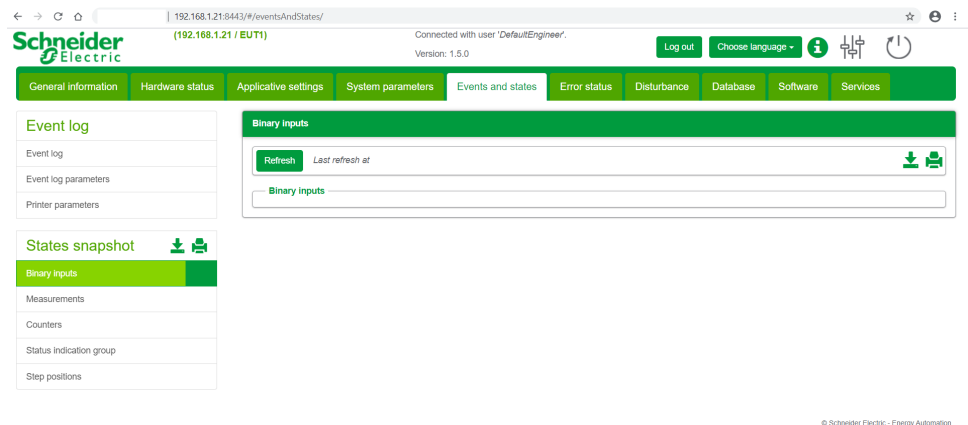


Event log parameters



- Enable events logging in the computer : to enable event logging.
- Normal or Debug: specifies the events to log. Normal: only log event configured are saved, Debug: all events are saved.

Binary inputs displaying



Measurements displaying

192.168.1.21:8443/index.html#/eventsAndStates/

(192.168.1.21 / EUT1)

Connected with user 'DefaultEngineer'.
Version: 1.5.0

Log out

Choose language

General information

Hardware status

Applicative settings

System parameters

Events and states

Error status

Disturbance

Database

Software

Services

Event log

Event log

Event log parameters

Printer parameters

States snapshot

Binary inputs

Measurements

Counters

Status indication group

Step positions

Measurements

Refresh

Last refresh at

Measurements

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Counters displaying

192.168.1.21:8443/#/eventsAndStates/

(192.168.1.21 / EUT1)

Connected with user 'DefaultEngineer'.
Version: 1.5.0

Log out

Choose language

General information

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Event log

Event log parameters

Printer parameters

States snapshot

Binary inputs

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Counters

Status indication group

Step positions

Counters

Refresh

Last refresh at

Counters

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Status indication group displaying

192.168.1.21:8443/#/eventsAndStates/

(192.168.1.21 / EUT1)

Connected with user 'DefaultEngineer'.
Version: 1.5.0

Log out

Choose language

General information

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States snapshot

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Counters

Status indication group

Step positions

Status indication group

Refresh

Last refresh at

Status indication group

Step positions displaying

192.168.1.21:8443/#/eventsAndStates/

(192.168.1.21 / EUT1)

Connected with user 'DefaultEngineer'.
Version: 1.5.0

Log out

Choose language

General information

Hardware status

Applicative settings

System parameters

Events and states

Error status

Disturbance

Database

Software

Services

Event log

Event log

Event log parameters

Printer parameters

States snapshot

Binary inputs

Measurements

Counters

Status indication group

Step positions

Step positions

Refresh

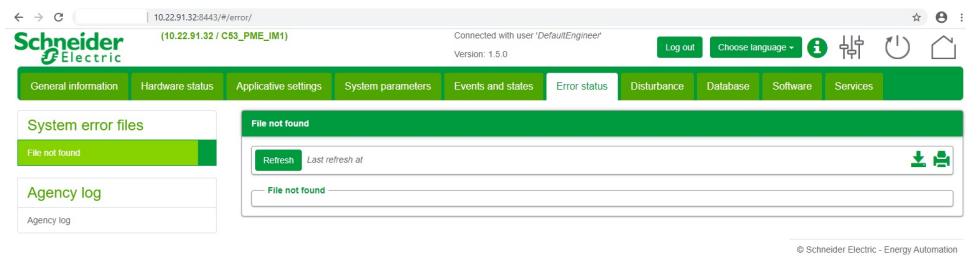
Last refresh at

Step positions

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Error status displaying

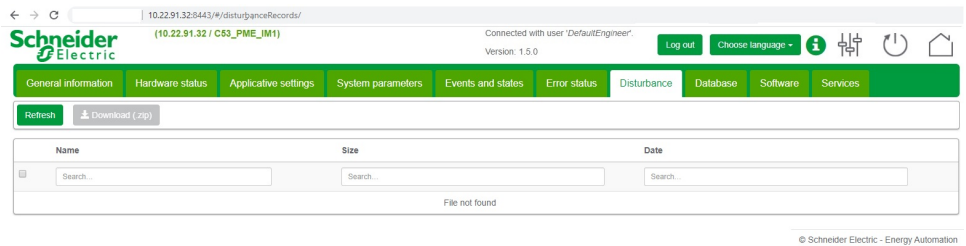
Error status view manage log files of BCPU as Agency log and system error files.



Log file present on BCPU are showed on left side of the view. Select file to display it on right panel.

Disturbance downloading

There are BCPUs with capabilities to manage disturbance file. The disturbance view manages disturbance functionality of these BCPUs.

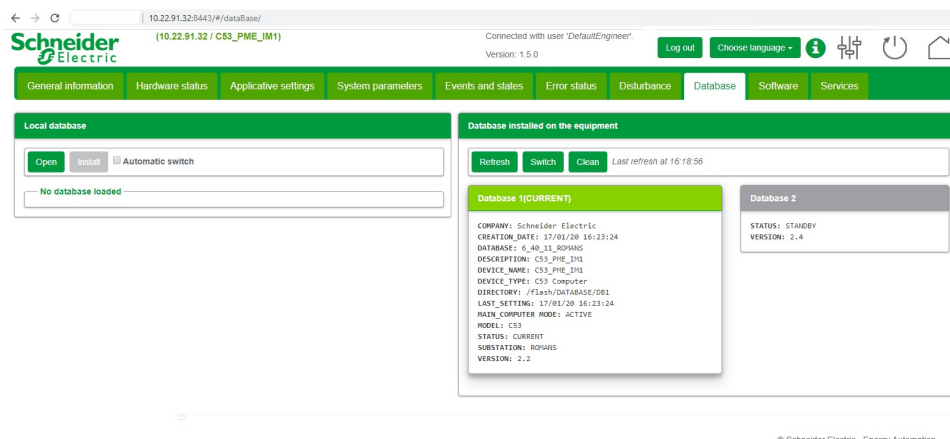


Disturbance view manages the download of disturbance files from BCPU. In case of a lot of disturbance files presents, there is search engine filtering on name, size or date of the file.

Select the disturbance files to download and click on Download button. Files are downloaded on a zip package.

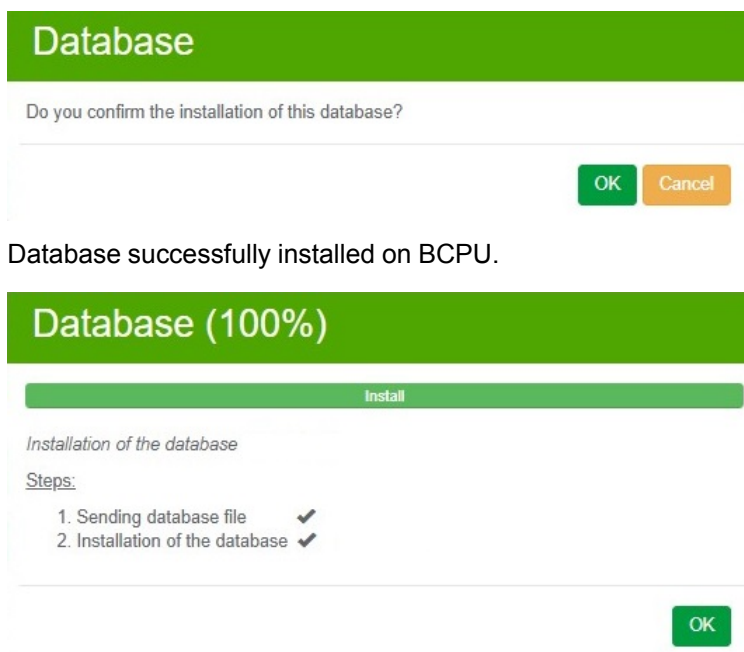
Database uploading

Database of BCPU are managed on Database view. There is two panels, left panel to manage database locally and right panel to manage database on BCPU.



Left panel: Local database

- Click on Open button to load locally a database. Only database compatible with BCPU can be loaded.
- Click on Install to upload database loaded to BCPU.
Confirm the installation.



Database successfully installed on BCPU.

- Check Automatic switch to automatically switch database after Install. Otherwise, the database uploaded is in Standby status.

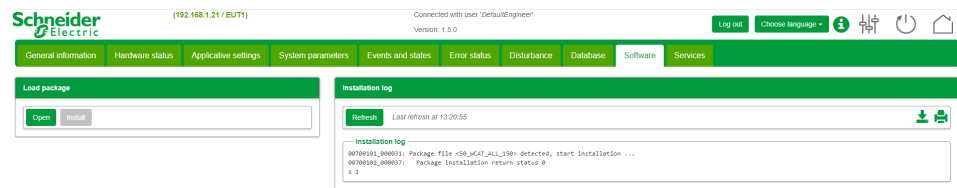
Right panel: Database installed on the equipment

Right panel shows status and informations about the databases, the database with STATUS = CURRENT is the active database.

- Click on Refresh button to refresh information.
- Click on Switch button to switch the databases. Database CURRENT remains STANDBY and the database STANDBY become CURRENT.
NOTE: depending on BCPU, the Switch database reboot the BCPU.
- Click on Clean button to remove all database from BCPU.

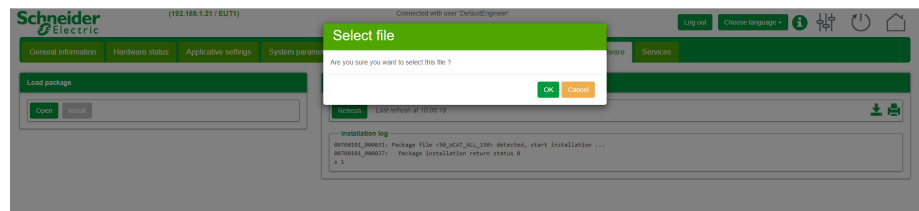
Firmware component uploading

Firmware of BCPU is managed on Software view. There is two panels, left panel to manage the choice and download of the firmware and right panel giving the installation log of the firmware on BCPU.

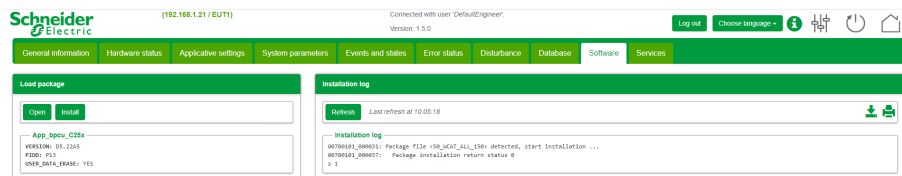


Left panel

- Click on Open button and select the .zip containing the firmware of the BCPU, click on install to upload the firmware to BCPU.
- Confirm the installation when asked.

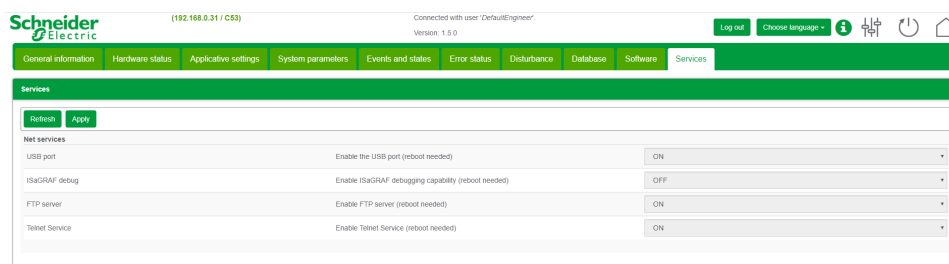


- The firmware has been successfully loaded on BCPU.



Service hardening

The Services panel let the operator to enable/disable services of the BCPU.



- **USB port** (ON / OFF) : Enable/Disable the USB port on the front panel of BCPU.
- **ISaGRAF debug** (ON / OFF) : Enable/Disable the ISaGRAF debugging capability.
- **FTP server** (ON / OFF) : Enable/Disable the FTP server capability.
- **Telnet Service** (ON / OFF) : Enable/Disable the Telnet communication protocol.

NOTE: Any effective change (click on Apply button) on these parameters reboots the BCPU. The communication of WebCAT with BCPU is lost.

Example of use with a BCPU type C5

Configuration

- A BCPU type C5.
- A computer connecting on same network with the BCPU.
- A web explorer compatible installed on the computer.
- A configuration for the BCPU made in this example with System Configuration Editor (SCE). In this example, the name of the C5 is **C53** and the IP is **192.168.0.31**.

Update system setting according configuration

- The name and IP address of the BCPU is not the same as the configured with SCE. First step is to update the name and IP in coherency with configuration.
- After login on the BCPU, on System parameters panel, enter the name and IP:

Name	Current value	Modified value	New name and IP
Computer network name	EUT1	C53	✓
IP and subnet mask Num 1	192.168.1.21 : 255.255.255.0	192.168.0.31	✓
IP and subnet mask Num 2	192.168.2.21 : 255.255.255.0	IP	

- The old name is EUT1 and the new is C53.
- The old IP is 192.168.1.21 and the new is 192.168.0.31.

Click on Apply to set the new name and IP. A popup shows to propose to reboot the BCPU, click on OK to reboot:

Current value	Modified value
EUT1	C53
192.168.1.21 : 255.255.255.0	192.168.0.31

- NOTE:** The C5 update name and IP only after a reboot.
- Reconnect to the BCPU after the reboot.
- NOTE:** To reconnect to BCPU, change the address IP on web explorer address bar. It is possible to connect to the BCPU only with the IP set. In this example, new address is `https://192.168.0.31:8443`
- The information are updated in System parameters views:

System parameters

Refresh Apply

Network basic parameters

Name	Current value	Modified value
Computer network name	C53	Computer network name <input type="text"/>
IP and subnet mask Num 1	192.168.0.31 : 255.255.255.0	IP <input type="text"/> Subnet mask <input type="text"/>
IP and subnet mask Num 2	192.168.2.21 : 255.255.255.0	IP <input type="text"/> Subnet mask <input type="text"/>

Load and install database

Go to Database panel.

Database

Local database

Open Install ☐ Automatic switch

Click on Open to load the configuration. At end of loading the information are updated:

Database

Local database

Open Install ☐ Automatic switch

6_40_10_SES_C25_tests_auto.66.3.zip

DATABASE: 6_40_10_SES_C25_tests_auto
VERSION: 66.3

Click on Install to upload database to the BCPU. A popup show to confirm the action, click on OK to confirm.

Database

Do you confirm the installation of this database?

OK Cancel

A popup loading appears, click ok at end of installation:

Database (100%)

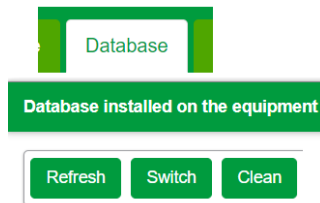
Install

Installation of the database '/RAMDEV/C53.adb'.

Steps:

1. Sending database file: 'C53.adb' ✓
2. Installation of the database '/RAMDEV/C53.adb'. ✓

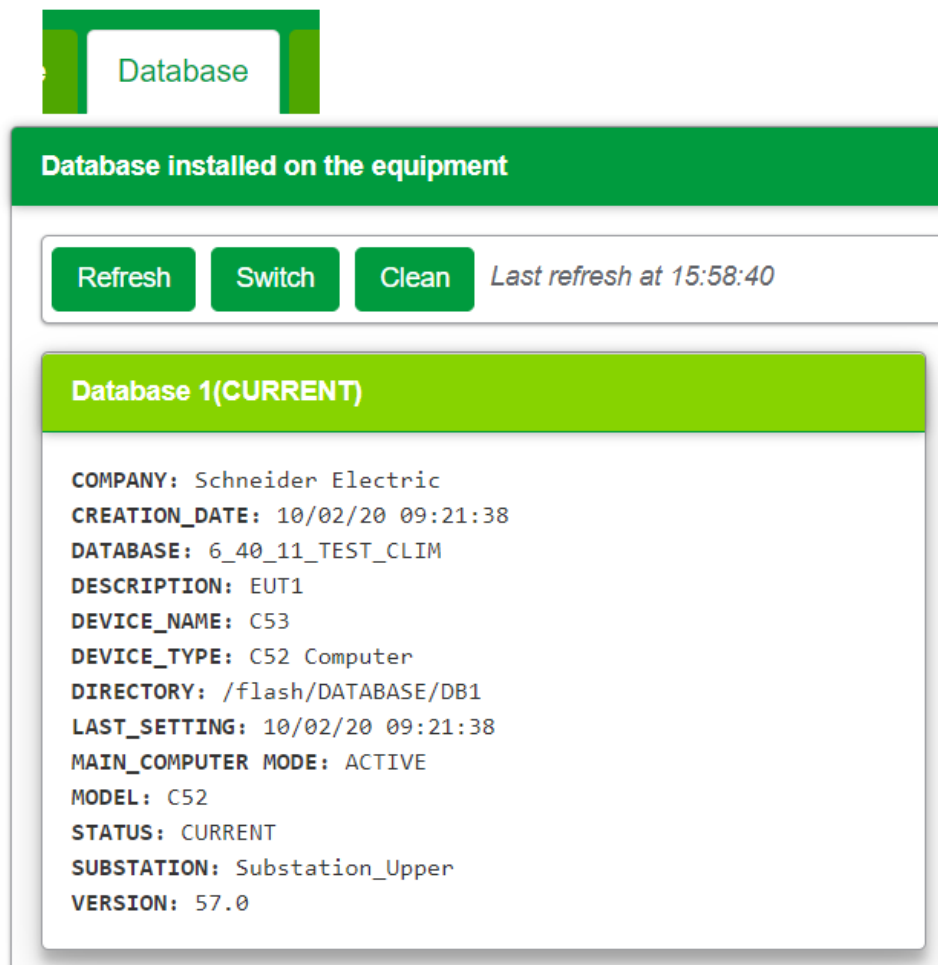
OK



Click on Switch to make the database uploaded current. A popup shows to propose to reboot the BCPU, click on OK to reboot. The C5 BCPU update name and IP only after a reboot.

Reconnect to the BCPU after the reboot.

Now, the BCPU is running with the database uploaded. The information are updated:



Troubleshooting

Bay Control and Protection Unit (BCPU) refuses WebCAT connection if its embedded cyber security brick certificate has not been renewed for 10 years.

Once the certificate is expired, WebCAT page becomes inaccessible in web explorer.

In that case, the following message appears in Google Chrome web explorer when connecting to the BCPU:

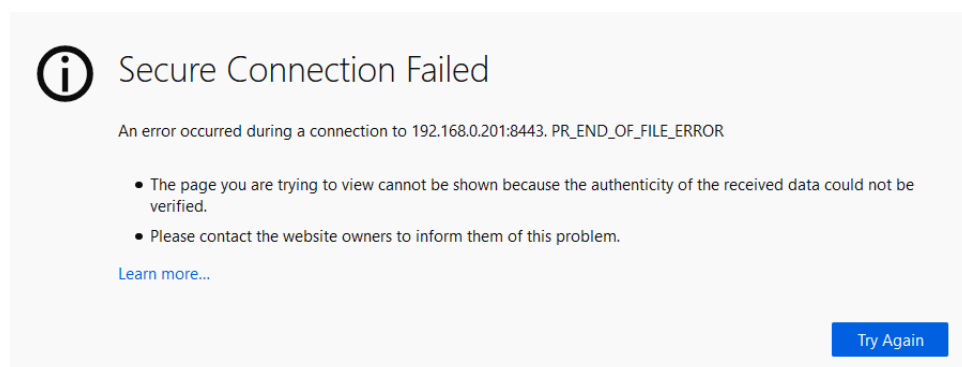


This site can't be reached

The webpage at **https://192.168.0.201:8443/** might be temporarily down or it may have moved permanently to a new web address.

ERR_CONNECTION_ABORTED

For Firefox web explorer the message is more explicit:



To fix this issue, restart the BCPU to renew the validity date of certificate.

Once BCPU has been restarted, WebCAT page re becomes accessible for a further cycle of 10 years.

Printed in:
Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison - France
+ 33 (0) 1 41 29 70 00

Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison
France

+ 33 (0) 1 41 29 70 00

www.schneider-electric.com

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