

CSNET Home Update v1.1 PRO features level 2

PRODUCT DEVELOPMENT EUROPE

Cooling & Heating





_ Content

- 1. Software updates: CSNET Home & Yutaki range
- 2. Mobile & Web App standard features
- 3. Web App PRO features

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Software updates

CSNET Home – Yutaki range

CSNET Home: Apps and server update version 1.1

From 15th of November 2023, CSNET Home system has been updated to version 1.1:

- Mobile Apps updated on Apple Store and Google Play Store; current version is referenced 1.1.8
- CSNET Home server updated to version 1.1.0 then 1.1.1
- CSNET Home Web App updated to version 1.1.0 then 1.1.1 (with the server update)
- ATW-IOT-01 gateway updated to version H-0302

Thanks to all these updates, several new features and changes on the Apps are introduced:

- Enforced **security** level on Apps and Server
- New PRO features: management of System Configuration Settings (OTC settings and many others) in read and write mode
- New **Management of WIFI networks on mobile App** (through the IoT gateway)
- Many other improvements and corrections...

Some of these new features are also linked to **software updates on the Yutaki unit**:

- Software update of the Yutaki LCD controller and main PCB (refer to the technical bulletin EG-2023019, Heating software update, release pending)

Example: Managing the System Configuration Settings from CSNET Home PRO requires a complete update of the Yutaki and CSNET Home system (Yutaki main PCB and LCD updated + CSNET Home PRO version 1.1 (server and Web App) + updated ATW-IOT-01).

Yutaki Range: software update November 2023

Yutaki software update (from EG-2023019, not distributed yet as production of Yutaki is currently stopped):

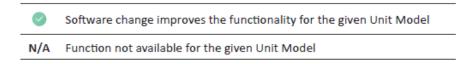
- **New firmware references** for Main PCB & LCD controller
- New functions available on Yutaki units
- Some additional new functions are also available with
 CSNET Home, and not commented in this APN.

H-0289
H-0287
H-0306

The software versions commented above are the ones required to enjoy all the new functions of CSNET Home v1.1 and all level 2 PRO features, in addition to the new functions directly available with the updated Yutaki units.

CSNET Home v1.1 can be used with any Yutaki unit, but some functions may not be available if the related Yutaki unit or IOT gateway is not up to date.

Software change	LCD update	PCB update			Unit I	Model		
Software change	required	required	S	SC	M	н/нс	YMM-02	YCC-03
ATW-IOT-01 Compatibility	Yes	Yes	•	②	•		Ø	N/A
Integration of Yutaki Heat Pump with Delta Dore Systems	Yes	No	•	•	②	•	•	N/A
WP3 start-up for swimming pool operation	No	Yes	•	•	②	Ø	②	②
Seizure protection application	No	Yes	•	•	•	•	②	②
DHW Defrost for Yutaki SC units	No	Yes	N/A	②	N/A	N/A	N/A	N/A
Water offset in points or gradient	Yes	No	•	•	•	•	•	•
Switch ON water circuits from wireless thermostats	Yes	No	•	•	•	•	•	N/A
Display of the crankcase heater icon	Yes	Yes	0	•	•	•	•	N/A
Power consumption chart colour change	Yes	No	•	•	②	•	Ø	N/A
Seizure protection time change Yes		No	②	②	②	②	Ø	②
Current water flow level Yes		No	•	②	•	Ø	Ø	N/A
Display of super heat discharge temperature (TDSH)	Yes	No	•	•	②	•	•	N/A



Yutaki Range: software update November 2023

Yutaki range software update (from EG-2023019):

- Current Yutaki models manufactured with the updated software are listed here:
- First production schedule to be confirmed (January 2024?)
- Serial numbers to be confirmed, once production will be resumed.

Note: Update of existing / already installed units is possible, only for the models listed in the table presented on this slide, by a manual update of the main PCB and of the LCD controller. Update tools and firmware shall be requested to the EU technical support teams.

Model Type	Model Code	Description	Application
	7E352007 / 7E352107	RASM-4(V)R1E	
_	7E352008 / 7E352108	RASM-5(V)R1E	_
	7E352009 / 7E352109	RASM-6(V)R1E	_
YUTAKI M -	7E352158	RASM-7R1E	From XX'23 Productions with
Standard /	7E352020 / 7E352120	RASM-4(V)RW1E	s/n ≥
Hydrosplit -	7E352021 / 7E352121	RASM-5(V)RW1E	_
	7E352022 / 7E352122	RASM-6(V)RW1E	_
	7E352159	RASM-7RW1E	
W-4-1-: 11/11C	7E549958 / 7E549966	HWD-WE-220S(-K)	From XX'23 Productions with serial number
Yutaki H/HC -	7E545900	HWM-WE	_ ≥
	7E475216	RWM-2.0R1E	
_	7E475217	RWM-2.5R1E	_
_	7E475218	RWM-3.0R1E	_
VI ITAKI C	7E475020	RWM-4.0N1E	From XX'23 Productions with serial
YUTAKI S -	7E475021	RWM-5.0N1E	number ≥
	7E475022	RWM-6.0N1E	
	7E475023	RWM-8.0N1E	
	7E475024	RWM-10.0N1E	
_	7E483503 / 7E483516	RWD-2.0RW1E-220S(-K)	_
	7E483504 / 7E483517	RWD-2.5RW1E-220S(-K)	
YUTAKI SC -	7E483505 / 7E483518	RWD-3.0RW1E-220S(-K)	From XX'23 Productions with serial
TUTANTSC	7E483507 / 7E483520	RWD-4.0NW1E-220S(-K)	number≥
	7E483508 / 7E483521	RWD-5.0NW1E-220S(-K)	_
	7E483509 / 7E483522	RWD-6.0NW1E-220S(-K)	

CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features	Required software udpate to run the new CSNET Home function				ınctions		
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server udpate v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Biometric login (Fingerprint / Face ID access)	Mobile Apps	Yes	-	-	-	-	-
Improved new user account creation (when using the web link to validate the account, mobile App displays automatically the login page)	Mobile Apps	Yes	-	-	-	-	-
Holiday mode - display of a "enjoy holidays" screen to avoid changing unit setting	Mobile Apps	Yes	-	-	-	-	-
Demo mode	Mobile Apps	Yes	-	-	-	-	-
App asking to configure weather forecast after login	Mobile Apps	Yes	-	-	-	-	-
Display power consumption data table	Mobile Apps	Yes	-	-	-	-	-
Get the available WiFi list from the IOT gateway	Mobile Apps	Yes	-	-	Yes	-	-
Management of non-WiFi Ready QR screen from router	Mobile Apps	Yes					
Improved layout on Web App, matching with the design of mobile App (global On/Off command, installation settings)	Web App	-	Yes	-	-	-	-

Yes: related software update is mandatory for this function

[&]quot; – ": related software update is not necessary for this function

CSNET Home v1.1: new features

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Management of fixed water temperature setting	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Timer icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Eco icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Reset power consumption	Mobile & Web Apps	Yes	Yes	-	-	-	-
Factory reset of IOT gateway from App	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode for DHW and SWP	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode: restoring previous settings	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Management of Yutaki Automatic mode	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Management of Boost mode for DHW	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Email notification when account is locked by too many login failures	Mobile & Web Apps	-	-	Yes	-	-	-
Contact information (email) per country added to the Apps	Mobile & Web Apps	Yes	Yes	-	-	-	-

Yes: related software update is mandatory for this function "-": related software update is not necessary for this function

CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features		Required software udpate to run the new CSNET Home f				SNET Home fu	ınctions
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server udpate v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Displaying unit capacity	PRO features	-	Yes	Yes	Yes	-	Yes
Display of PCB / LCD Software	PRO features	-	Yes	-	Yes	Yes	Yes
System configuration settings of LCD controller available in CSNET Home PRO menu (read & write)	PRO features	-	Yes	Yes	Yes	Yes	Yes
Country management summary view, for PRO Admins	PRO features	-	Yes	Yes	-	-	-
List of automatic emails sent by the system	PRO features	-	Yes	Yes	-	-	-
Improved order log with timer and holiday mode orders + new filters	PRO features	-	Yes	Yes	Yes	-	-
Manual fields for unit model and serial number	PRO features	-	Yes	Yes	-	-	-
Country filter on installation list	PRO features	-	Yes	Yes	-	-	-
List of all the users for admin profiles	PRO features	-	Yes	Yes	-	-	-
List of users and installations for service companies and distributors	PRO features	-	Yes	-	-	-	-
Revoke function for admin profiles to cut the link between companies and installations	PRO features	-	Yes	Yes		-	-
WiFi level quality on IOT gateway status	PRO features	-	Yes	Yes	Yes	-	-

Yes: related software update is mandatory for this function "-": related software update is not necessary for this function

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CSNET Home v1.1: new features

Notes about other features:

Compatibility with **Cascade Controller** (ATW-YCC-03) and compatibility with **multi-Yutaki systems** is postponed to the next major update of CSNET Home (version 1.2, time to market to be confirmed).

Additional improvements of the interface are considered for the next updates of CSNET Home:

- Complementary information about the WiFi signal strength
- Improved export data file.
- Reading ODU PCB firmware version
- Automatic maintenance report for installations
- Improved alarm log page
- Energy performance data, in addition to the power consumption data
- Email notification in case of disconnected gateway
- ...

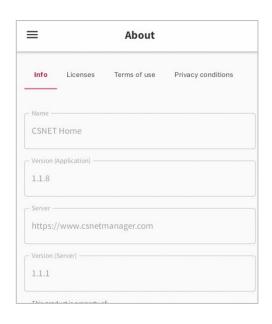
Please note this is a <u>list of intentions</u>, not a firm commitment to get all these new features available in the next CSNET Home update.

CSNET Home: release of the new features

Current status as of CSNET Home system

- Mobile Apps updated on Apple Store and Google Play Store; current version is referenced 1.1.8
- CSNET Home server running version 1.1.1
- CSNET Home Web App version 1.1.1 (with the server update)
- ATW-IOT-01 gateway updated to version H-0302 (all connected devices are up to date)





Caution related to the Yutaki software update – Management of the "System Configuration Settings" (OTC settings):

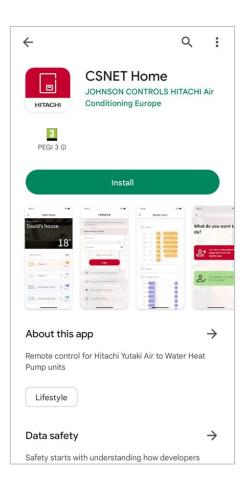
- This feature require a full update of CSNET Home system (App, server, gateway) + update of the Yutaki main PCB + LCD controller
- The first updated Yutaki units delivered from factory should be manufactured in the coming months (to be confirmed)
- For already existing units, a manual update of the Yutaki main PCB + LCD controller is necessary (refer to slide 6 for the list of related Yutaki models)
- Specific tools are necessary for this update (ISP310 writer for Main PCB, Renesas Flash programmer v3.08 + Flash-writer E2LITE for PC-ARFH2E)

CSNET Home Apps update

Release of the update v1.1 on the stores: from 15th of November 2023

The release is done without any limitation related to the country or area of the world (175 countries targeted for iOS, 174 for Android).





Minimum O.S. versions for CSNET Home v1.1.8

Apple devices: iOS 15 (iPhone 6 SE)

Android devices: Android 8









2

New CSNET Home features

Mobile & Web App standard features

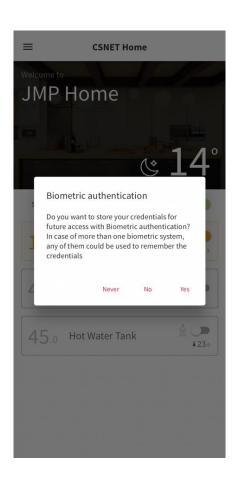
CSNET Home v1.1: new mobile & Web App features

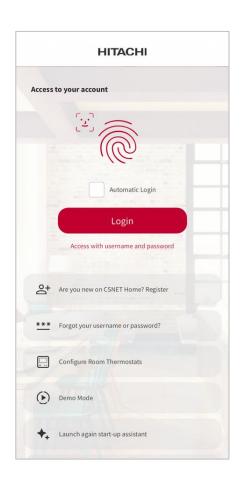
Summary of the new functions for CSNET Home and software update requirements

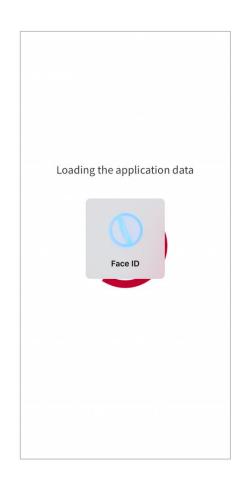
CSNET Home Features	Required software udpate to run the new CSNET Home function				ınctions		
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server udpate v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289
Biometric login (Fingerprint / Face ID access)	Mobile Apps	Yes	-	-	-	-	-
Improved new user account creation (when using the web link to validate the account, mobile App displays automatically the login page)	Mobile Apps	Yes	-	-	-	-	-
Holiday mode - display of a "enjoy holidays" screen to avoid changing unit setting	Mobile Apps	Yes	-	-	-	-	-
Demo mode	Mobile Apps	Yes	-	-	-	-	-
App asking to configure weather forecast after login	Mobile Apps	Yes	-	-	-	-	-
Display power consumption data table	Mobile Apps	Yes	-	-	-	-	-
Get the available WiFi list from the IOT gateway	Mobile Apps	Yes	-	-	Yes	-	-
Management of non-WiFi Ready QR screen from router	Mobile Apps	Yes					
Improved layout on Web App, matching with the design of mobile App (global On/Off command, installation settings)	Web App	-	Yes	-	-	-	-

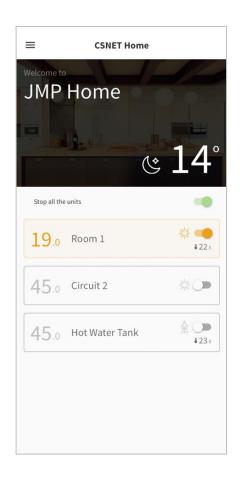
CSNET Home v1.1: new mobile App features

Biometric login option









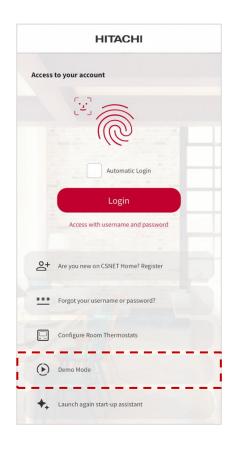
After the first manual login, App will propose the user to setup the biometric authentication method.

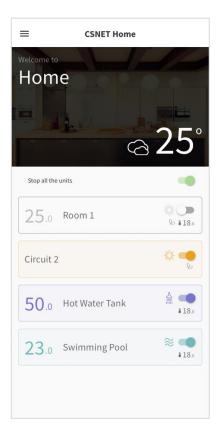
Depending on the features of the mobile phone, fingerprint or face ID may be used.

Once done, it is no longer necessary to input login and password on App. This feature can also be combined with the automatic login.

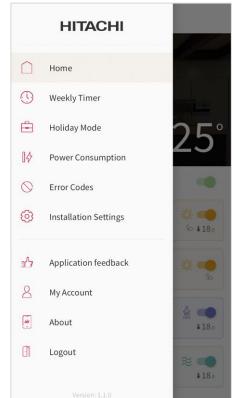
CSNET Home v1.1: new mobile App features

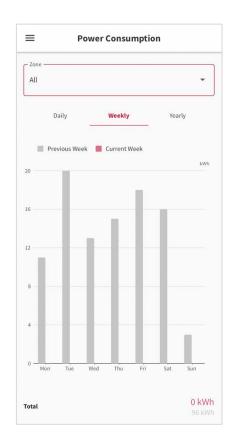
Demo mode









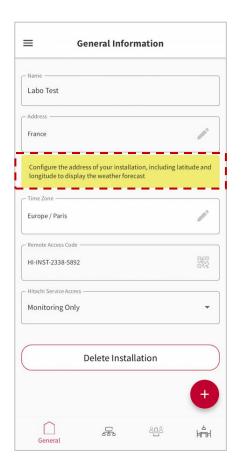


Demo mode is now available from the connection menu of the mobile App.

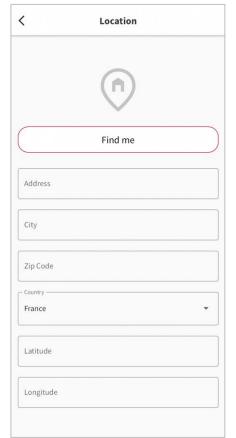
All the zones are available, with and without RTU. Commands can be submitted, updated settings are displayed on App. Fake power consumption data are also loaded to be displayed on the App.

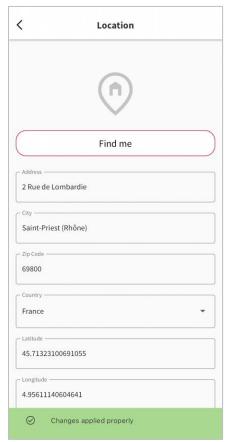
CSNET Home v1.1: new mobile App features

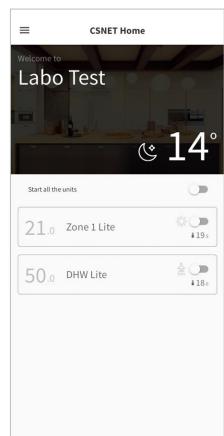
Weather forecast and accurate location information









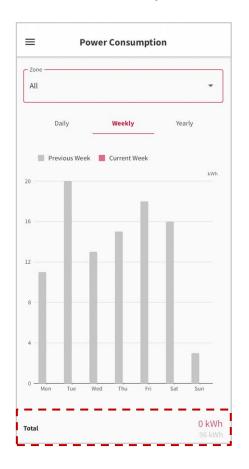


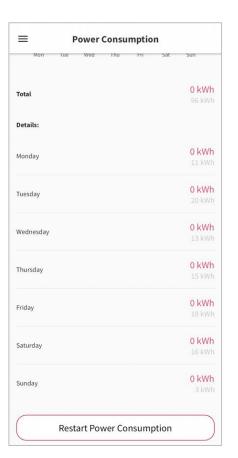
When an installation is created, its accurate address is not defined. By default, the outdoor temperature displayed on App is the one measured by the outdoor unit.

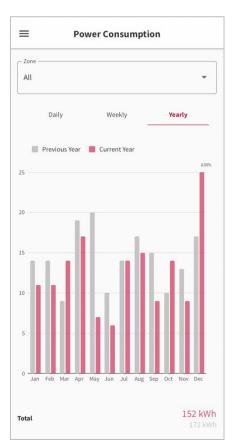
By configuring the accurate address of the installation (use the "Find me" function to get the automatic accurate location detected), outdoor temperature read by outdoor unit will be replaced by the weather forecast related to the location (Internet widget, displaying outdoor temperature and weather icon).

CSNET Home v1.1: new mobile App features

Power consumption data table











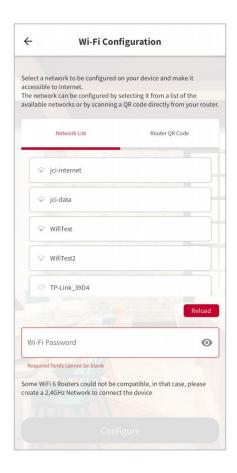
Power consumption data is displayed with a graphic view by default.

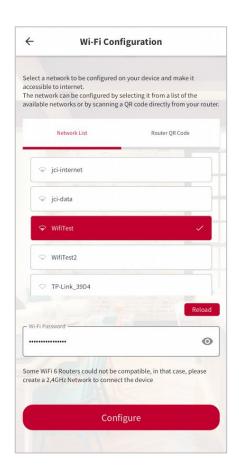
A complementary table is now available below this graph, giving the related power consumption by hour, day or month.

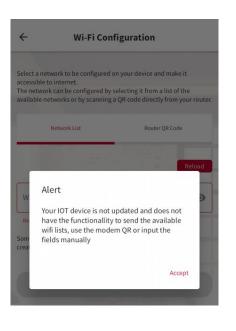
A new function is available to reset the power consumption (start from zero again): use the "Restart Power Consumption" button if necessary.

CSNET Home v1.1: new mobile App features

List of WiFi networks from the IOT gateway









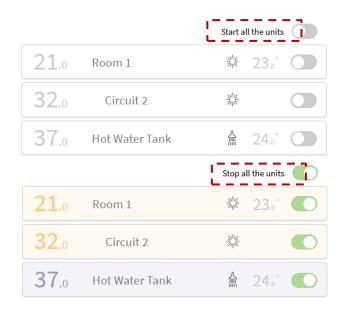


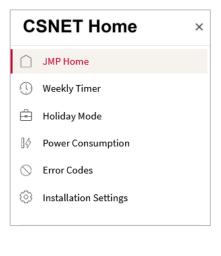
When configuring the connection of the IOT gateway to the house WiFi network, getting the list of available WiFi network may be limited by the smartphone (iOS). A new feature is now available with the last version of the gateways, allowing to get the list of WiFi networks directly from the gateway and not from the smartphone. If the IOT gateway is not up to date (warning message displayed), the SSID of the WiFi network shall be updated manually or by scanning a QR code. IOT gateways can be updated by JCH-ES factory team only.

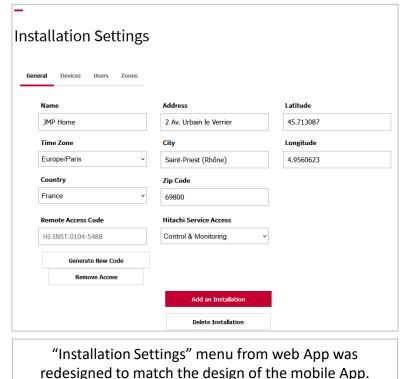
— HITACHI

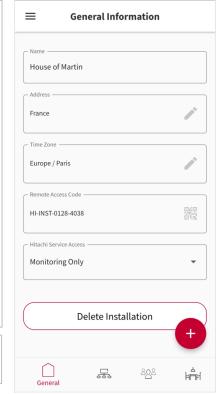
CSNET Home v1.1: Web App features

Improved design of Web App









Several pages and functions of the Web App have been updated in order to use the same concept design as the mobile App. Some examples:

- General On/Off command button on Home page
- General menu
- Installation Settings menu

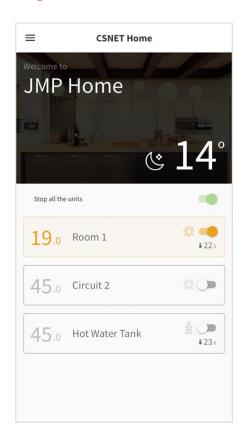
CSNET Home v1.1: new features

Summary of the new functions for CSNET Home and software update requirements

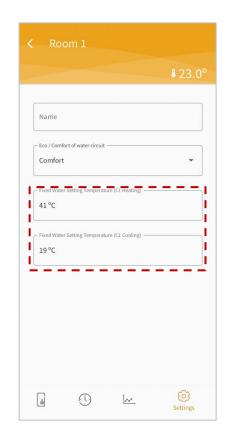
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Management of fixed water temperature setting	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Timer icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Display of Eco icon on dashboard	Mobile & Web Apps	Yes	Yes	-	-	-	-
Reset power consumption	Mobile & Web Apps	Yes	Yes	-	-	-	-
Factory reset of IOT gateway from App	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode for DHW and SWP	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Holiday mode: restoring previous settings	Mobile & Web Apps	Yes	Yes	Yes	Yes	-	-
Management of Yutaki Automatic mode	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Management of Boost mode for DHW	Mobile & Web Apps	Yes	Yes	Yes	Yes	Yes	Yes
Email notification when account is locked by too many login failures	Mobile & Web Apps	-	-	Yes	-	-	-
Contact information (email) per country added to the Apps	Mobile & Web Apps	Yes	Yes	-	-	-	-

CSNET Home v1.1: new mobile + web App features

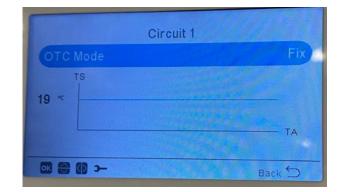
Management of fixed water temperature settings by end users











Space heating / cooling zone with room thermostat:

- On home page, the room temperature set point + current room temperature is displayed.
- In the zone focus, the "Control" panel is related to the room temperature set point.
- The zone "Settings" panel now proposes the fixed water temperature settings, for any standard user, for the related modes with fixed water control.
- These settings are available for the zones and operation modes setup with "Fixed water temperature control". If another OTC setting is used, these settings are not available.

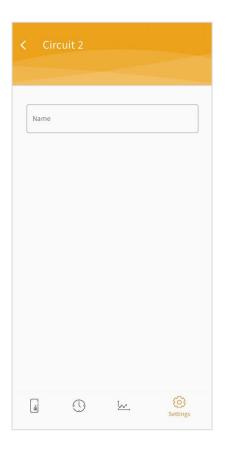
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CSNET Home v1.1: new mobile + web App features

Management of fixed water temperature settings by end users









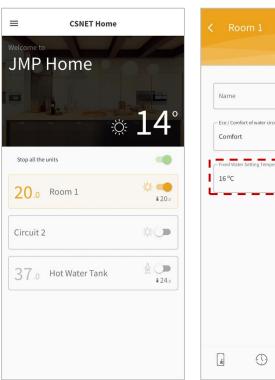


Space heating / cooling zone without room thermostat:

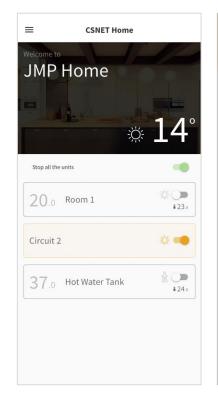
- On home page, the current fixed water temperature set point is displayed (if OTC is not fixed temperature, no temperature is displayed)
- In the zone focus, the "Control" panel is related to the fixed water temperature set point, for the current operation mode
- In the zone "Settings" panel, water temperature set point are not displayed, to avoid a duplicated information (may be reconsidered for a next update)
- These settings are available for the zones and operation modes setup with "Fixed water temperature control". If another OTC setting is used, these settings are not available.

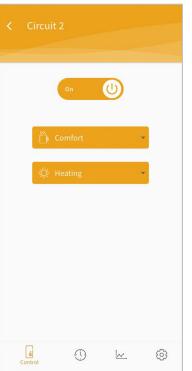
CSNET Home v1.1: new mobile + web App features

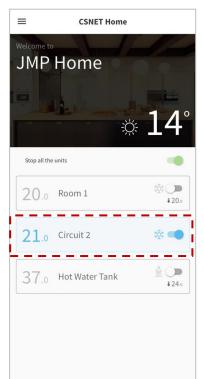
Management of fixed water temperature settings by end users













Zone 1 with RTU, heating OTC=gradient, cooling OTC=fixed water temp. Fixed water set point is only displayed for cooling mode (Settings page)

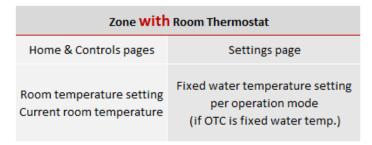
Zone 2 without RTU, heating OTC=gradient, cooling OTC=fixed water temp. Fixed water set point is only displayed for cooling mode (home page + Control page)

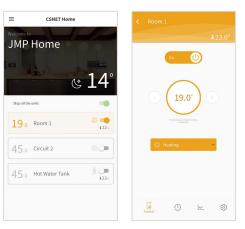
Space heating / cooling zone if OTC setting is different than "fixed water temperature" for heating or cooling mode:

- OTC settings different than "Fixed water temperature" are not displayed to the end user
- Fixed water set point is displayed only for the operation mode configured with OTC = Fixed water temperature

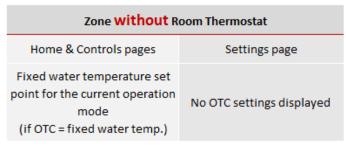
CSNET Home v1.1: new mobile + web App features

Management of fixed water temperature settings by end users















Summary of the application cases:

- Fixed water temperature setting is displayed on mobile apps only if this OTC mode is selected
- Display per operation mode, when RTU is used
- Display only for the current operation mode when no RTU is used

CSNET Home v1.1: new mobile + web App features

Management of OTC settings by end users

Settings	Арр	Status in App version 1.1	Comment
Danding and action	Mobile Apps	Available for any user (owner and invited user)	In future updates of CSNET Home, possibility to
Fixed Water Set Point	Web App	Available for any user (owner and invited user)	configure the access to these settings as a user privilege
	PRO features	Available for PRO users	New feature of CSNET Home v1.1
Reading and setting OTC	Mobile Apps	Not available, for any user	Some settings to be added for the end user
parameters (points & gradient OTC)	Web App	Not available, for any user	in future update of CSNET Home
	PRO features	Available for PRO users only	New feature of CSNET Home v1.1

With CSNET Home v1.1:

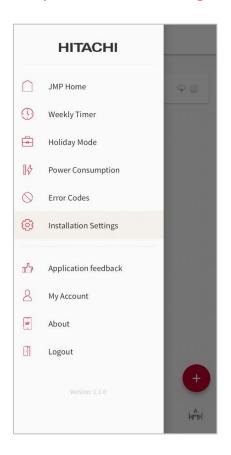
- The Fixed Water Temp. settings are available for all the users of one installation (owner and invited users), from mobile and Web Apps (end user view)
- In the PRO features, control of all the OTC settings is added for all PRO users (Hitachi admins, Service Partners and Distributor users)
- In mobile Apps, it not possible to read or set the other OTC settings (gradient, points), for any user

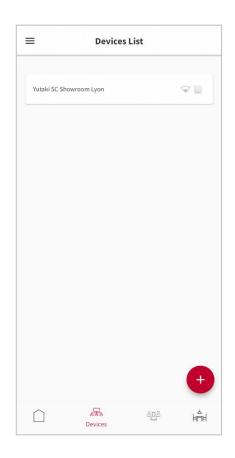
Future updates of CSNET Home:

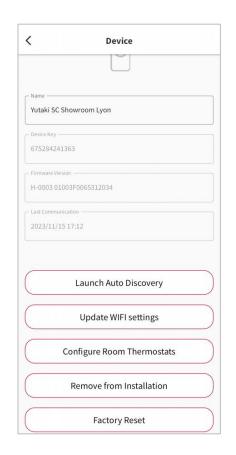
- It is considered adding more OTC settings to the end users view, from mobile and Web Apps.
- Access to these OTC setting as a user privilege

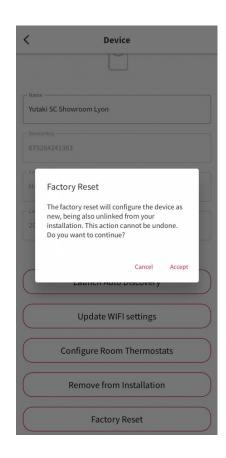
CSNET Home v1.1: new mobile + web App features

Factory reset of the IOT gateway









- New function available on mobile and Web app
- Allows to reset the IOT gateway to its factory settings from the App: WiFi settings, Yutaki unit configuration, installation settings are erased, gateway is removed from the current installation.
- No action on the push buttons of the gateway, but the IOT gateway must be online to run this function
- Reminder about the push buttons on next slides.

Reminder - Presentation of ATW-IOT-01

Hardware details – push buttons

H-LINK

connection cable

Not

used

Power

cord



for remote

update

Green LED

connection

for Cloud



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Button 1	Button 2	Action	Comments
15 sec	-	WiFi reset	Pressing button 1 during 15 seconds will reset the WiFi settings of the device: SSID and related password are cleared from ATW-IOT-01.
15 sec	15 sec	Factory reset	Pressing button 1 & 2 during 15 seconds will reset the WiFi settings of the device + erase the customer's data stored in the gateway (unit HLINK address).

The push buttons on the gateway can be used as a secondary way to manage a gateway, especially when one device shall be installed on another site, after a first commissioning.

These actions are not necessary when trying to link one gateway with one user account.

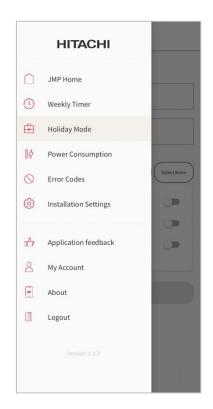
Other actions can be done from CSNET Home App directly to manage one gateway:

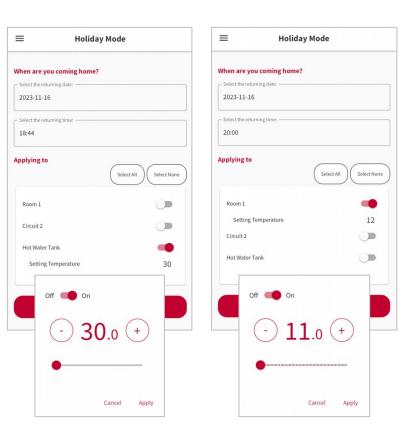
- Pair it to a new WiFi network
- Discover again the unit / zones of the related Yutaki unit
- Delete a gateway from one user account
- Reset a gateway to factory settings

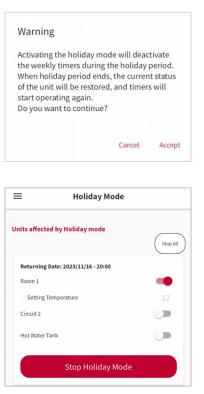
Note: The factory reset from the push buttons and from the App are expected to have the same actions on the system

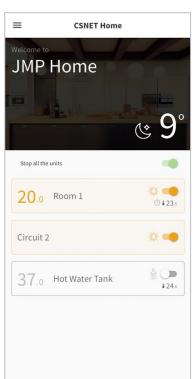
CSNET Home v1.1: new mobile + web App features

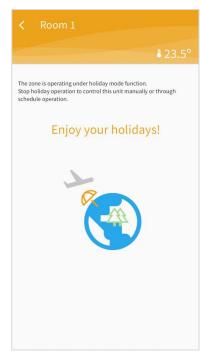
New Holiday mode settings and control concept











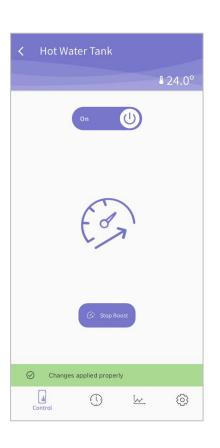
New options are available for the Holiday Mode:

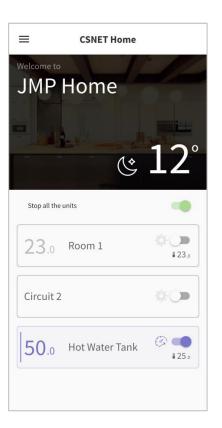
- It can be applied to Domestic Hot Water tank and Swimming pool, with specific settings (OFF or water temperature setpoint)
- If the weekly timer is activated on a zone, it is deactivated during the absence period and activated again at the end of the holiday mode.
- Zone settings are restored to their original status when holiday mode is finished (On/Off, operation mode, temp. setting).
- Once applied to a zone, this zone can no longer be manually controlled unless Holiday mode is deactivated: new pages to comments this status ("Enjoy your holidays!").

CSNET Home v1.1: new mobile + web App features

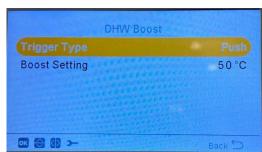
Boost mode for DHW

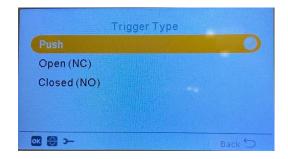










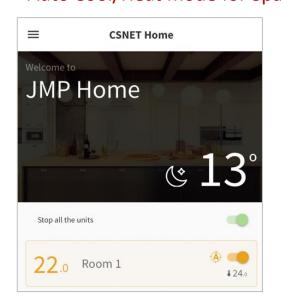


Boost mode for DHW can be set from App:

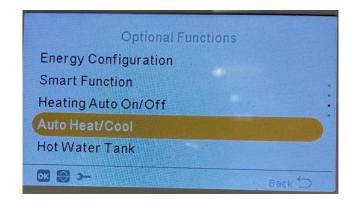
- It must be configured on the Yutaki unit as "Push" option (button to push on LCD controller)
- Once done, it can be triggered from App, with a specific icon displayed on DHW menu and Home page.
- Boost Temperature setting is applied.
- These settings can be managed from CSNET Home PRO.

CSNET Home v1.1: new mobile + web App features

Auto Cool/Heat mode for Space heating zones









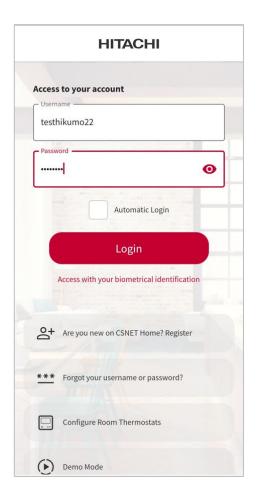


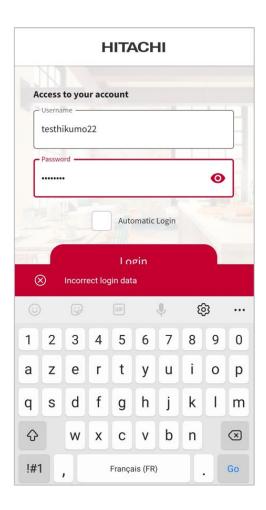
Auto Cool/Heat operation mode can be applied to the Yutaki space heating zone, from LCD controller or from the App

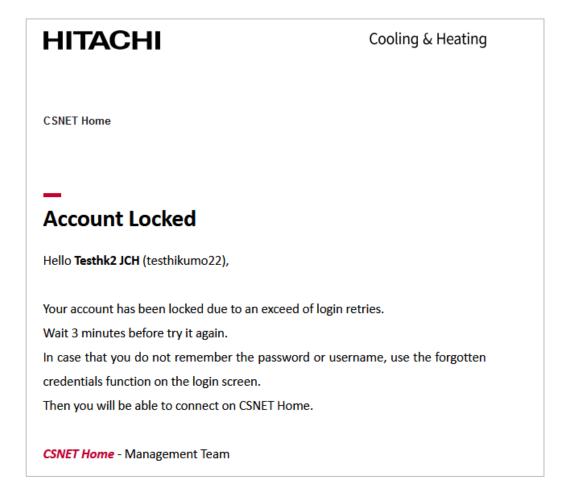
- Auto Cool/Heat mode must be activated from the optional function menu on LCD controller
- Once done, it can be applied to the space heating zones, as a standard operation mode
- Auto Cool/Heat option can be activated from CSNET Home PRO.

CSNET Home v1.1: new mobile + web App features

Notification by email in case of repeated wrong login





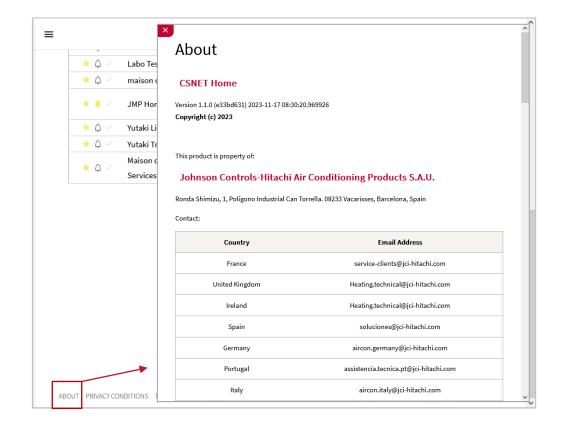


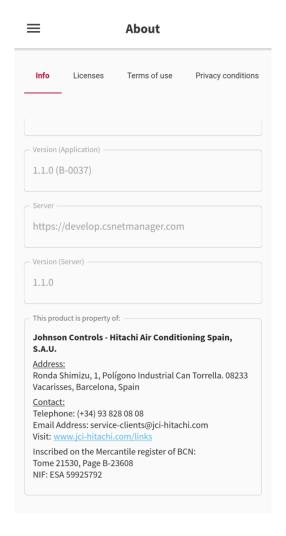
A notification by email is sent to the user in case of repeated wrong login in a short time (more than 5 times in 1 minute). The forgot password procedure is available from the connection page.

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CSNET Home v1.1: new mobile + web App features

Contact information by email available on Apps





Contact information is now available on mobile and web apps:

- List of contact emails from the Web App, from the "About" menu
- On mobile App, the contact email address is automatically selected according the country selected by the user when creating his account.

3

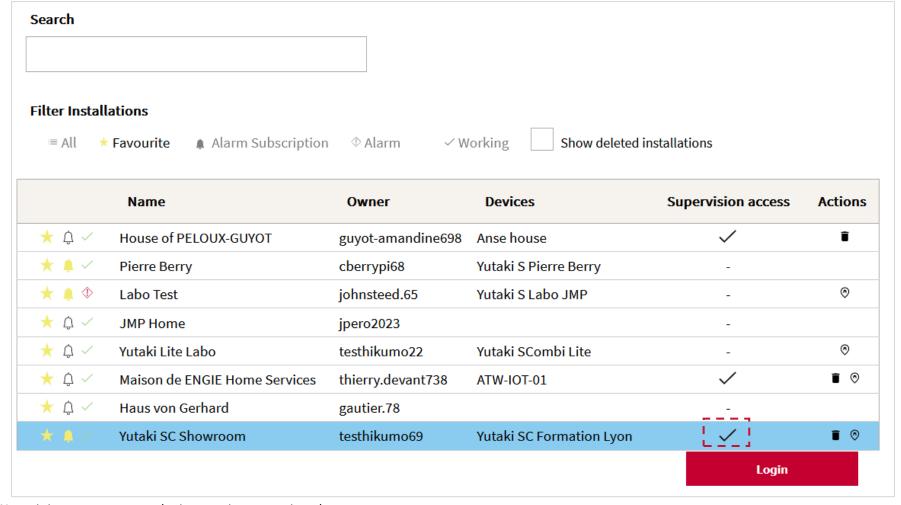
New CSNET Home features
Web App - PRO features



CSNET Home PRO – selecting and controlling one installation

From the main menu, select one installation for which Supervision access was granted by the end user (control access allowed, not read only mode)

The login button appears at the lower right corner

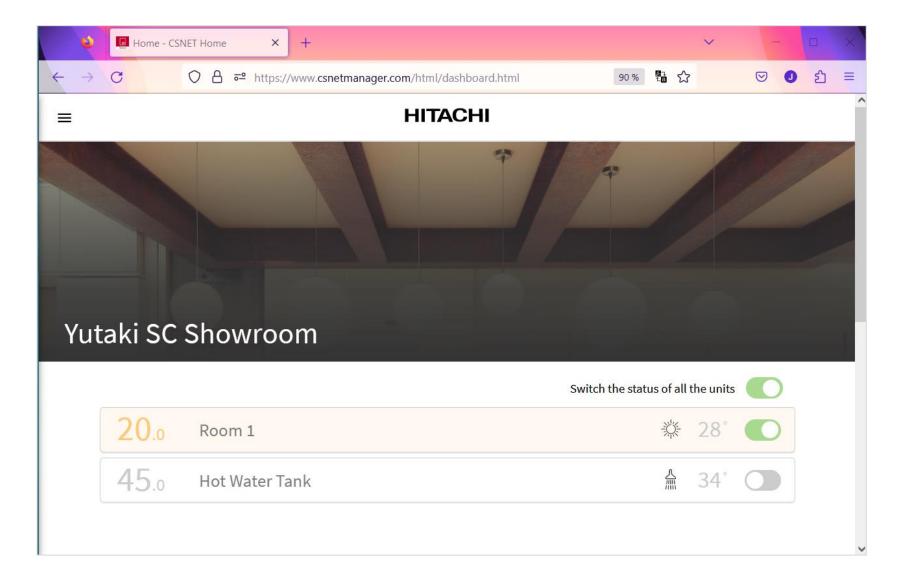


Note: it is not necessary to login on a site to monitor the related parameters – this is only necessary in order to control the unit from the CSNET Home end user view.

CSNET Home PRO – selecting and controlling one installation

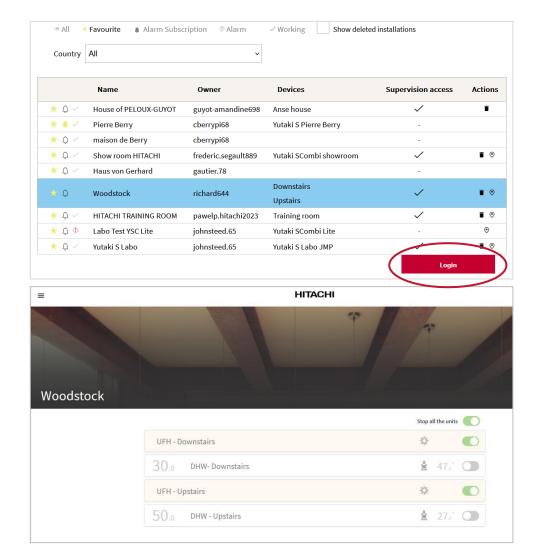
Once logged in, the PRO user can control the system as if he was the end user.

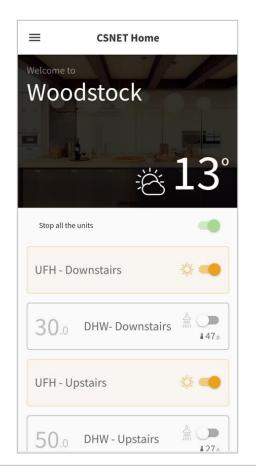
This control mode requires the agreement of the end user (control mode shall granted for the related PRO user, instead of monitoring mode set by default).

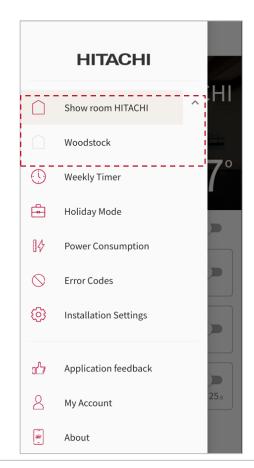


CSNET Home PRO – selecting and controlling one installation

The PRO user can access to the customer's system from the Web app and from the mobile app, once he has logged to the installation in from the Web app. In this way, the PRO user can get connected to the installation exactly in the same way as the end user and check potential matters.







Once the PRO user has logged-in to the customer's installation from the PRO interface, he can use the mobile App and his account to access the customer's system. The customer's site automatically appears or disappears from the installation list on the mobile App, based on the actions done on the PRO Web App.

CSNET Home v1.1: new features

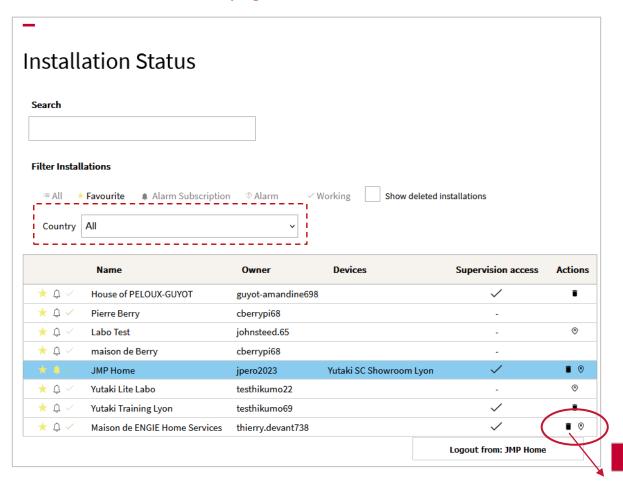
Summary of the new functions for CSNET Home and software update requirements

CSNET Home Features			Required software udpate to run the new CSNET Home functions					
New CSNET Home function	Related CSNET Home App	Mobile App update v1.1	Web App update v1.1	Server udpate v1.1	ATW-IOT-01 update	Yutaki LCD update H-0287	Yutaki Main PCB update H-0289	
Displaying unit capacity	PRO features	-	Yes	Yes	Yes	-	Yes	
Display of PCB / LCD Software	PRO features	-	Yes	-	Yes	Yes	Yes	
System configuration settings of LCD controller available in CSNET Home PRO menu (read & write)	PRO features	-	Yes	Yes	Yes	Yes	Yes	
Country management summary view, for PRO Admins	PRO features	-	Yes	Yes	-	-	-	
List of automatic emails sent by the system	PRO features	-	Yes	Yes	-	-	-	
Improved order log with timer and holiday mode orders + new filters	PRO features	-	Yes	Yes	Yes	-	-	
Manual fields for unit model and serial number	PRO features	-	Yes	Yes	-	-	-	
Country filter on installation list	PRO features	-	Yes	Yes	-	-	-	
List of all the users for admin profiles	PRO features	-	Yes	Yes	-	-	-	
List of users and installations for service companies and distributors	PRO features	-	Yes	-	-	-	-	
Revoke function for admin profiles to cut the link between companies and installations	PRO features	-	Yes	Yes		-	-	
WiFi level quality on IOT gateway status	PRO features	-	Yes	Yes	Yes	-	-	

[&]quot; – ": related software update is not necessary for this function

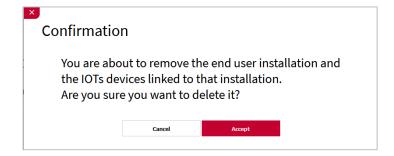
CSNET Home v1.1: new PRO features

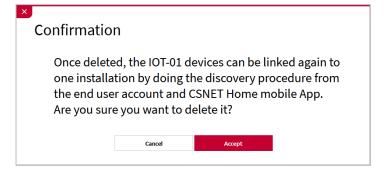
CSNET Home PRO main page – Installation status



The main page of CSNET Home PRO has been improved:

- Installations can now be sorted by country
- Improved messages (double popup) and description popup for the available function (like deleting one installation)



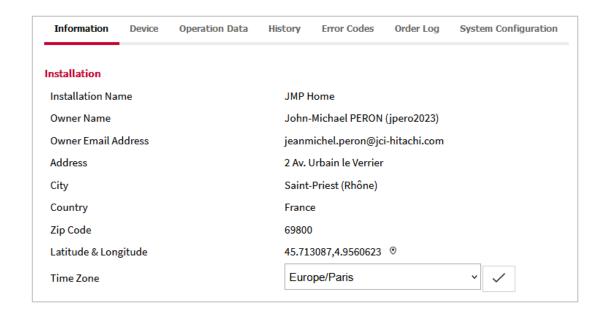


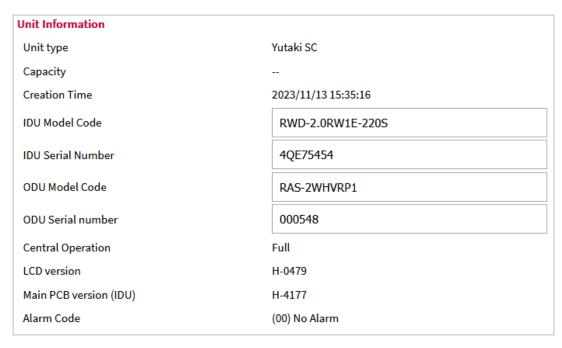
Deletes the user's installation (all data related to the IOT gateway used is erased from the user account) and removes this installation from this list. The user account is not deleted.

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CSNET Home v1.1: new PRO features

Installation & Unit information pages





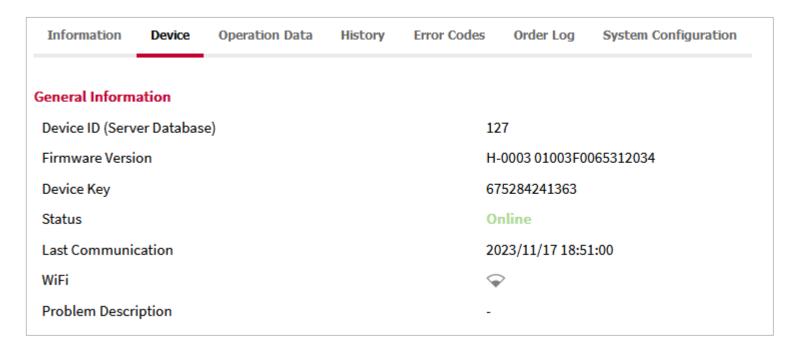
These pages have been improved:

- Better description
- Adding free fields for units' model name and serial number
- Adding Central operation status (especially for Yutaki units before 2021)
- Adding LCD and IU PCB firmware (OU PCB firmware is not available through HLINK so far)

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CSNET Home v1.1: new PRO features

Gateway information



Improvements:

- Better description
- Adding WiFi level information (a more detailed information will be displayed in a future update)

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CSNET Home v1.1: new PRO features

Operation data

Water Side	
Pump Speed	0%
Water Flowrate	0m3/h
Water Inlet Temperature	23°C
Water Outlet Temperature	23°C
Water Setting Temperature TTWO	20°C
Water Pressure	1.48MPa

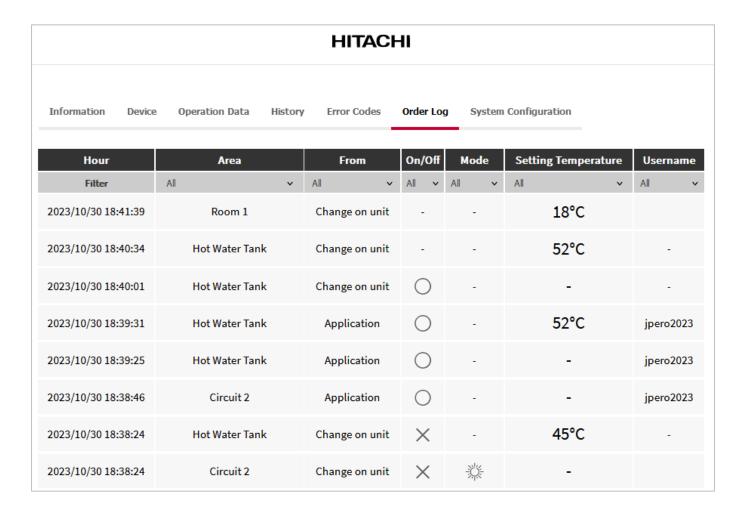
Outdoor Unit Inverter compressor frequency 0Hz Gas Temperature (Refrigerant) 23°C Liquid Temperature (Refrigerant) 23°C Discharge Gas Temperature (Refrigerant) 47°C Evaporation Gas Temperature (Refrigerant) 25°C Discharge Pressure (Refrigerant) 1.5MPa Suction Pressure (Refrigerant) 1.6MPa Suction Pressure Correction Factor / 10 Indoor Expansion Valve Status 35% Outdoor Expansion Valve Status 0% Compressor Running Current 0A Outdoor Instantaneous Ambient Temperature 25°C

Improvements:

- Adding Water Pressure for compatible Yutaki units
- Adding a correction factor for the suction pressure value
- Correction of the automatic refresh of operation data (once per minute)

CSNET Home v1.1: new PRO features

Order log



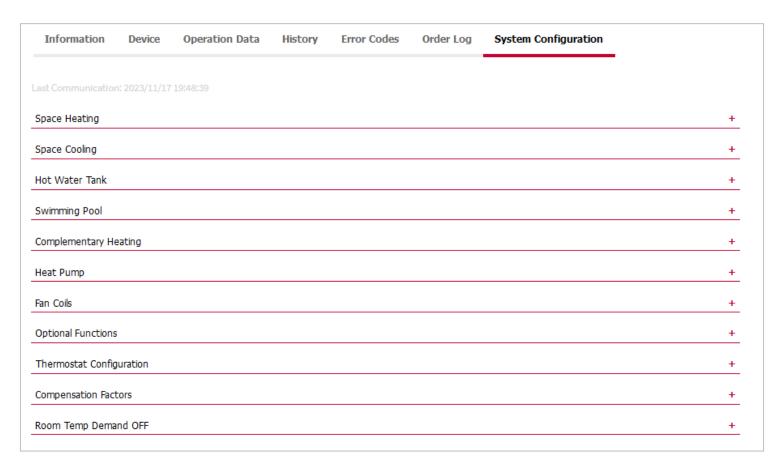
Improvements:

- Manual orders are now recorded
- The origin of all the orders is indicated in the table: from mobile or Web App, on the unit, timer, holiday mode etc...
- The table can be filtered: by area, by origin, by order etc...

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CSNET Home v1.1: new PRO features

System configuration



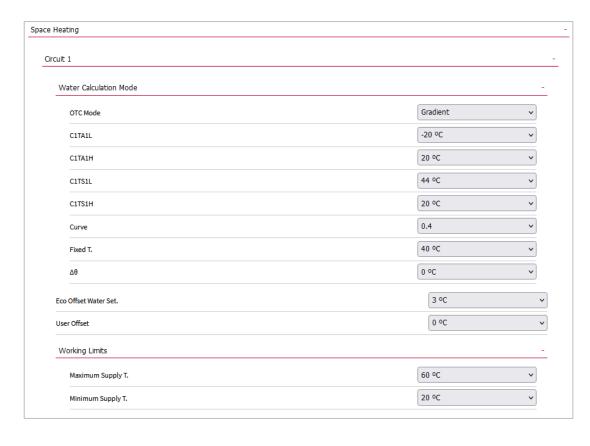
Most of the parameters from the "System Configuration" menu of the LCD controller are now available from CSNET Home PRO:

- Possibility to read and write parameters remotely from CSNET Home PRO Web App
- This function requires a complete update of CSNET Home system + updated Yutaki unit (LCD controller H-0287 + Main PCB H-0289)

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CSNET Home v1.1: new PRO features

System configuration – Space heating & space cooling parameters



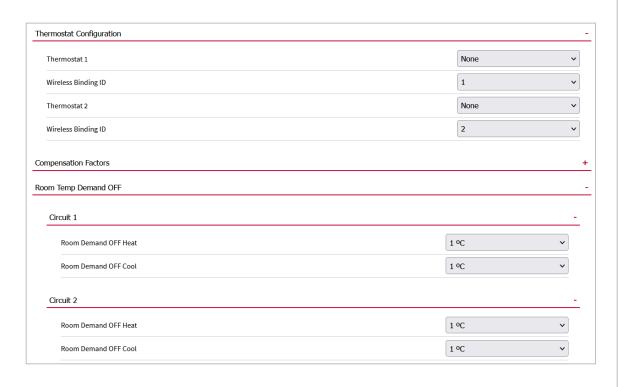


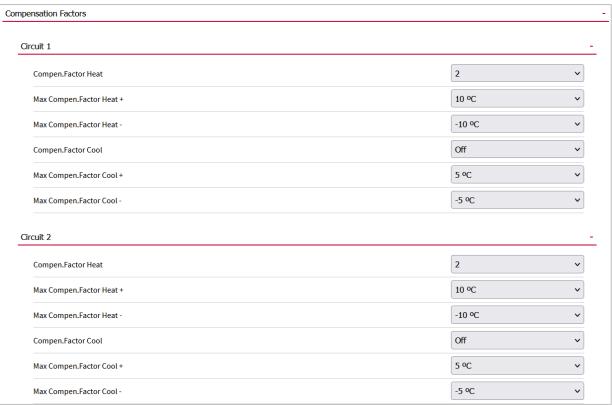
- All the OTC parameters can be updated
- This includes the activation / deactivation of space cooling or any circuit (DHW, SWP)
- The same registers are available for Circuit 2.
- Specific parameters are available for DHW and SWP zones.

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CSNET Home v1.1: new PRO features

System configuration – Thermostat and Room compensation factors





- Thermostat configuration can be updated remotely, but the local actions on the RTU may be necessary.
- Room temperature compensation factors and Demand-OFF control are also available for circuit 1 and 2.

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CSNET Home v1.1: new PRO features

System configuration – Optional functions & water pump configuration





Water pump parameters and most of the optional functions can be set from CSNET Home PRO.

CSNET Home v1.1: new PRO features

System configuration Summary of the available settings

Refer to the Yutaki Service Manual for details about all these settings.

Non-available settings from CSNET Home PRO:

- Input and output contacts configuration settings ("I/O and Sensor" menu).
- Test run, screed drying, air purge, pump down procedures.

	SYSTEM CO	NFIGURATION SETTINGS FROM CSNET HO	ME PRO			
Menu	Zones / Sub menu	Settings				
Constitution	Circuit 1, Circuit 2	Water calculation mode	OTC modes + all OTC settings			
Space heating	Circuit 2	Mixing valve	Mixing valve settings			
Carra analian	Circuit 1, Circuit 2	Water calculation mode	OTC modes + all OTC settings			
Space cooling	Circuit 2	Mixing valve	Mixing valve settings			
Hot Water Tank Status, mode, Setting temperature and all setting parameters						
not water rank	Anti-Legionella	Status and all s	setting parameters			
Swimming Pool		Status and temperature setting para	ameters			
	Heating source	HP only, HP+EH,	HP+BO, HP+BO+EH			
	Electric Heater	EH settings if EH is se	lected as Heating Source			
Complementary	Boiler combination	Boiler settings if BO is	selected as Heating Source			
Heating		Input demand or Tota	al control status setting			
	Solar combination	Input demand s	settings if selected			
		Total control s	ettings if selected			
	Water Pump Configuration	Operation mode and all settings				
Heat Pump	Night Shift	Capacity setting, timer settings				
rieat Fullip	Seizure Protection	Status setting and all parameters				
		Outdoor average Timer,	Min ON time, Min OFF time			
	Controlled Fan zones	Room 1-2, Deactivated, Heating, Cooling, Heating+Cooling				
Fan coils	Comfort Temperature Offset	Fan 1, Fan 2, O	Fan 1, Fan 2, Off or offset setting			
	Demand Off actions	Heating, Cooling,	action for each room			
	Hydraulic separator	Statu	s setting			
Optional	Energy configuration	Input calculation setting, popwer me	ter settings, capacity calculation setting			
Functions	Smart Function	Status settings, Smart Action, Trigger type, Start Boiler, Start DHW Heater settings				
	Heating Auto On/Off	Status setting, Switch-Off temperature, Switch-On diferential				
Hot Water Tank	Circuit Pump	Pump activation setting, related Timer settings if Timer is selected				
THOSE WORLD TOTAL	DHW Boost	Boost trigger type and tempertaure setting				
Emergency		Space heating and Mode settir	ngs			
Operation		Space fleating and Mode Settin	163			
Thermostat	Thermostat Thermostat 1 Type of Thermostat (None, Wired, wireless) and related setting					
configuration	Thermostat 2	Type of Thermostat (Hone, Whereas) and related settings				
Compensation factors	Circuit 1, Circuit 2	Compensation factors for heating and cooling operations				
Room Temp. Demand OFF	Circuit 1, Circuit 3	Demand-Off temperature offset for heating and cooling operations				

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CSNET Home v1.1: new PRO features

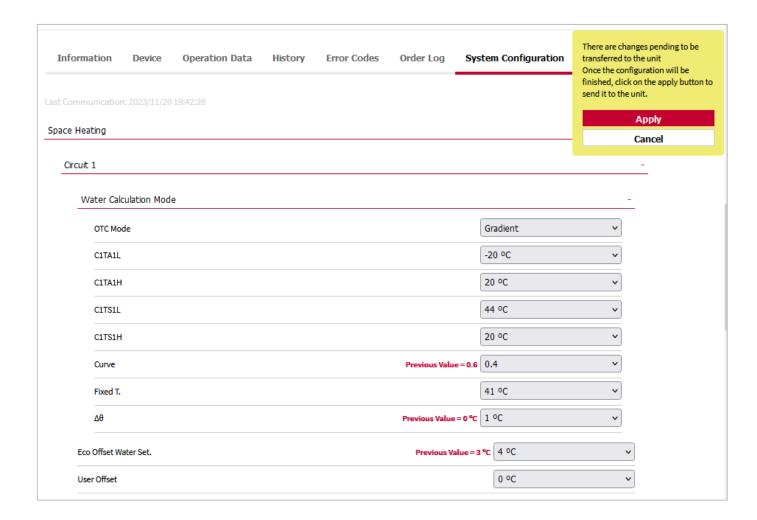
System configuration – setting parameters

Parameters can be set from CSNET Home PRO interface:

- Look for the relevant parameter
- Select the new setting value => App is highlighting the modified parameter and the previous value

Several parameters can be updated at the same time, it is recommended to **not set more than 4 or 5 parameters in one go**.

Once the settings are done, click on "Apply" in the yellow pop-up window.



CSNET Home v1.1: new PRO features

System configuration – setting parameters

Once the settings are done, click on "Apply" in the yellow pop-up window.

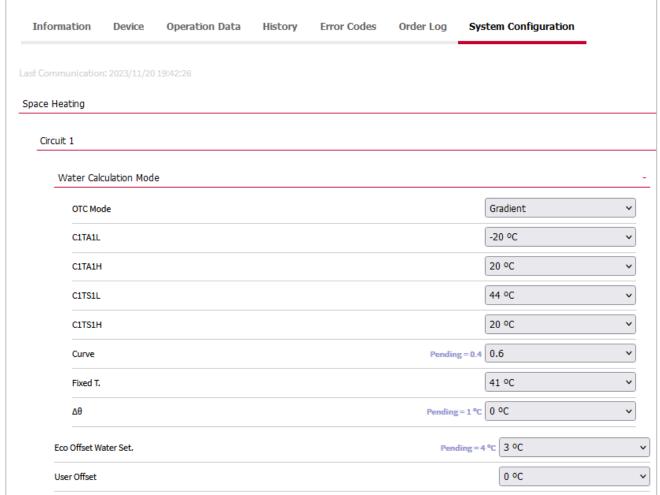
The orders are transmitted from the App to the server, and from the server to the gateway, then to the unit.

Application time to the Yutaki unit: **30s to 1 min**Setting refresh time on CSNET Home App: **2 to 10 min**

As this refresh time is a bit long, the "pending" settings are highlighted on the Web App.

After some minutes, the setting will be synchronized between the App and the Yutaki unit, the "pending" information will disappear automatically.





Refresh time of these settings can require 2 to 10 minutes, especially because these settings are written on the EEPROM of the Yutaki main PCB. Refresh time for such setting cannot be reduced to a couple of seconds.

CSNET Home v1.1: new PRO features

System configuration – setting parameters – display with old Yutaki units

As commented previously, the System configuration settings are available only for up-to-date Yutaki units.

When checking an "old" Yutaki unit (2016~2012 range) with CSNET Home v1.1 system, the "System Configuration" page will not be displayed on App.

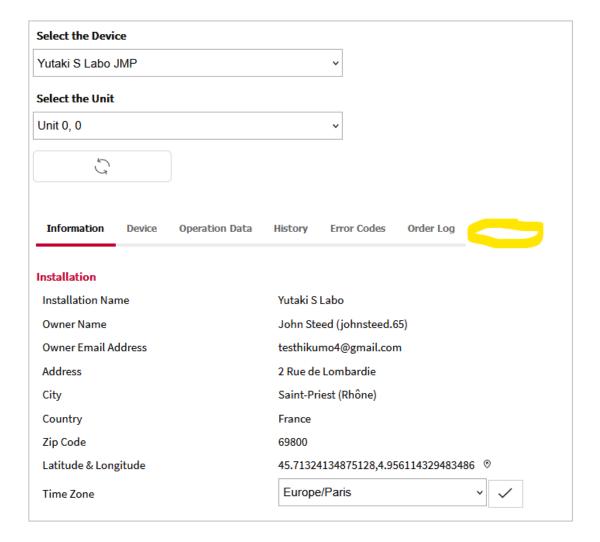
Example of "old" Yutaki S units connected to CSNET Home:

- Yutaki software versions are read on CSNET Home
- System Configuration settings are not available.

Central Operation	Air
LCD version	H-0198
Main PCB version (IDU)	H-0185
Central Operation	Air
Central Operation LCD version	Air H-0212

Reminder: Yutaki units from [2016~2021] can be connected to ATW-IOT-01 and CSNET Home. Make sure the Central Operation setting is set to "Air" instead of "Local" to allow the application of remote orders to the unit.

If this setting is kept as "Local", the Yutaki unit will be in read-only mode.

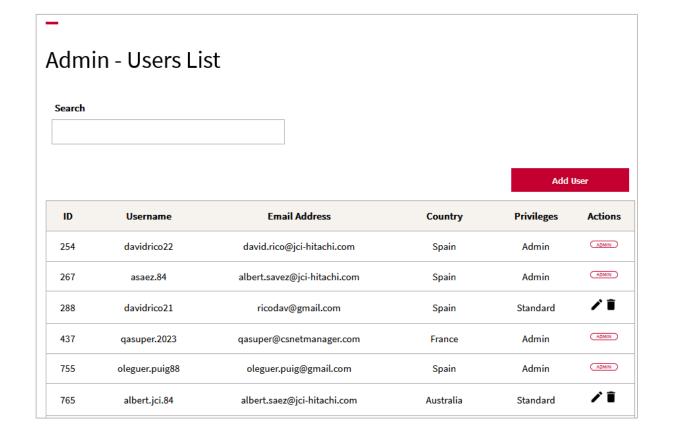


CSNET Home v1.1: new PRO features

New account management functions

Additional menus are now available for admin users:

- List of installations per Service Partner or Distributor
- Summary of the Country Manager accounts
- New admin menu with the list of all the users
- Email manager: displays the list of all the automatic email sent by CSNET Home server



Distributors					
2	Distributors				
898	Users List				
Ę,	Installations				
Serv	ice Partners				
2	Service Partners				
<u> </u>	Users List				
Ę ₃	Installations				
Cou	ntry Management				
2	Country Access				
898	Users List				
	Summary				
Adn	nin				
292	Users List				
	Email Manager				
2	My Account				
	Logout				

CSNET Home v1.1: new PRO features

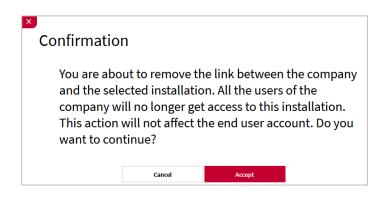
New management functions for Admin users

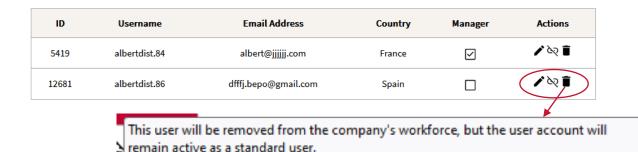
Service Partners and Distributors menus:

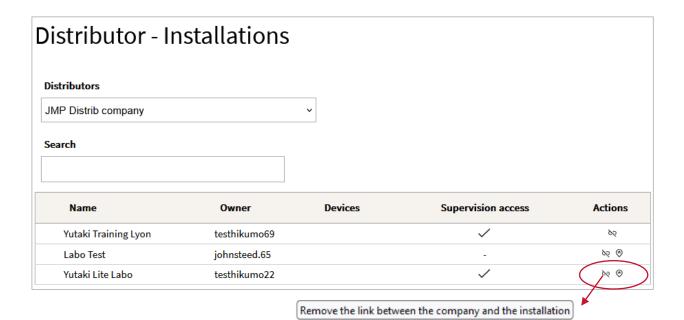
New popup messages to explain the action buttons

List of installation per company:

- Allowing admin users to have a clear view on the installations linked to the company
- "Unlink" command available to revoke the link between the company and the installation







CSNET Home v1.1: new PRO features

New management functions for Admin users

Country Management menu



Summary: displays the list of all the existing Country admin users, with their username, email address and the list of supervised country (when several countries are managed, there are several lines for the same user account).

This page is only a list.

To affect one or several countries to one admin, use the "Country Access" menu.

Country Management - Summary

ID	Username	Email Address	Country
5473	hitachi1993	cesar.angues@jci-hitachi.com	France
14100	username02	user2@user.com	Italy
14100	username02	user2@user.com	Germany
6339	aurelien.serol1304	aurelien.serol@jci-hitachi.com	France
6960	frederic.segault889	frederic.segault@gmail.com	France
7248	fontaine.maximilien709	fontaine.maximilien@gmail.com	France

CSNET Home v1.1: new PRO features

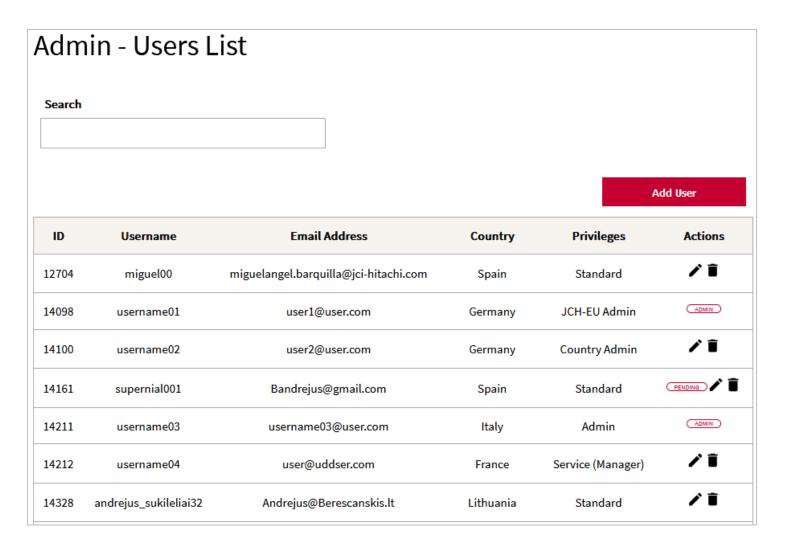
New management functions for Admin users

Admin menu



Users List: displays the list of all the existing users, with their account country (country of residence declared when creating the account) and privilege (admin or standard status)

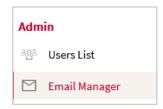
Admin users can edit the user profiles from this page, if the user is not an Admin.



CSNET Home v1.1: new PRO features

New management functions for Admin users

Admin menu



Email manager: displays the list of all the automatic email sent by CSNET Home server

The page can be a bit long to load, wait for 10-20s to see the table. A spinner and a description message will be added in a next update, to avoid confusion.

Email ID is the server internal reference of the email sent.

Email type code: indicate the purpose of the email (like the subject of the email).

Email type code	Description			
0	Invite guest to installation			
1	Register: Email Confirmation			
2	Change Email from your account: new email confirmation			
3	A new user account has been registered, notification sent to the country managers (function not operating yet)			
4	Distributor request access to your installation			
5	Service Partner request access to your installation			
6	User accepted the distributor			
7	User accepted the service partner			
8	Good feedback sent by a user			
9	Bad Feedback send by a user			
10	Password recovery			
11	Account Locked			
12	Notification of installation Alarm to PRO subscribers			

Email Manager

ID	Туре	Subject	Email Address	Retry Cnt	Time	Closed At
18629	11	CSNET Home - Account Locked	testhikumo2@gmail.com	0	2023/11/17 18:22:31	2023/11/17 18:22:32
18405	6	CSNET Home - User has declined access to the installaton	adariasm2@gmail.com	0	2023/11/14 12:05:14	2023/11/14 12:05:17
18404	6	CSNET Home - User has declined access to the installaton	adariasm4@gmail.com	0	2023/11/14 12:05:14	2023/11/14 12:05:16
18403	6	CSNET Home - User has declined access to the installaton	15021	0	2023/11/14 12:05:14	2023/11/14 12:05:15
18400	6	CSNET Home - User has granted access to the installaton	adariasm2@gmail.com	0	2023/11/14 11:27:42	2023/11/14 11:27:46
18399	6	CSNET Home - User has granted access to the installaton	adariasm4@gmail.com	0	2023/11/14 11:27:42	2023/11/14 11:27:44
18398	6	CSNET Home - User has granted access to the installaton	15021	0	2023/11/14 11:27:42	2023/11/14 11:27:43

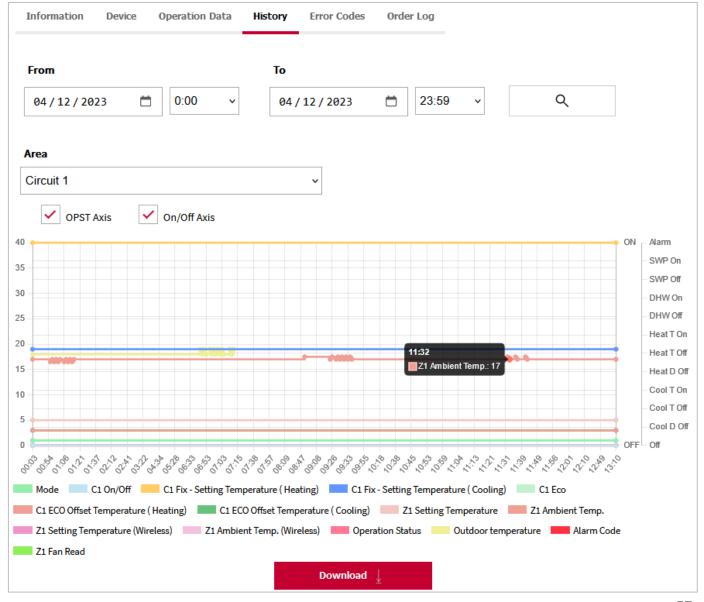
CSNET Home v1.1: PRO features

Historical data

Display of historical data on Web App was affected by an issue on previous version. This has been solved.

Reminders:

- IOT gateway must be powered ON and online to get historical data on Apps
- If the Yutaki unit is powered OFF: no data
- If the Yutaki unit is in OFF status (stand-by), powered ON and IOT gateway online, data is well recorded and displayed.



Documents about CSNET Home and ATW-IOT-01

The following documents can be found on the EU Share Point:

Advanced Product News: <u>Share Point link</u>

- Press release: Share Point link

- Instruction manual: Share Point link

- Pictures ATW-IOT-01: Share Point link

- Application screenshots: Share Point link

- Features & Benefits presentation: Share Point link

- Sales brochure: <u>Share Point link</u>

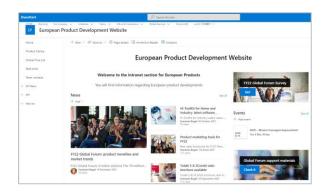
CE certificate for ATW-IOT-01: Share Point link

- Yutaki Main PCB and LCD firmware: Share Point Link

Note: all documents are now available!







Appendix

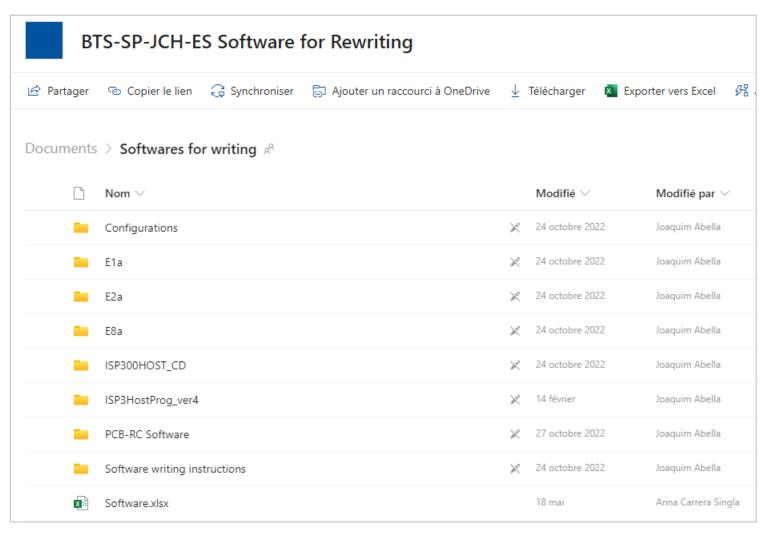
Shared folder from JCH-ES Software update material



Shared Folder from JCH-ES – Software update

Service Teammates can get the Yutaki firmware files and instructions to update the units from a shared folder created by JCH-ES:

BTS-SP-JCH-ES Software for Rewriting

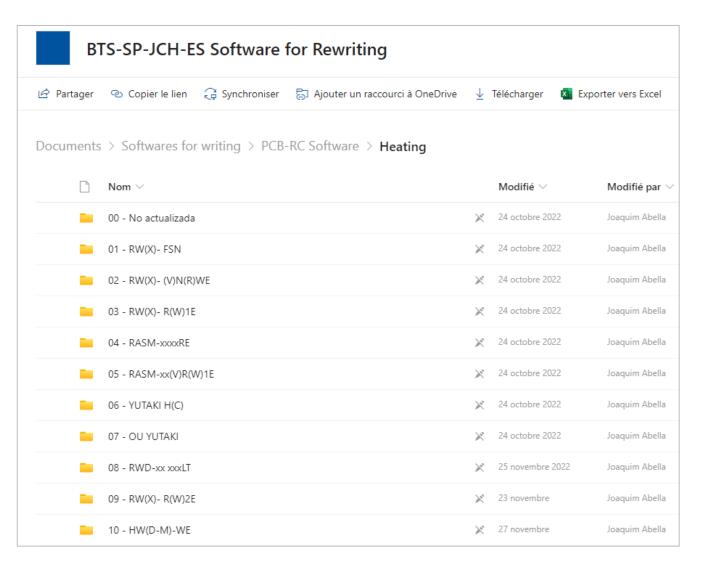


Shared Folder from JCH-ES – Software update

Service Teammates can get the Yutaki firmware files and instructions to update the units from a shared folder created by JCH-ES:

BTS-SP-JCH-ES Software for Rewriting

Firmware files for Yutaki LCD and main PCB can be found in the RW(X)-R(W)1E folder





Thank you!

Cooling & Heating