

Vizuo Software On Web

MN-VIZUO-EN

Mar-2020



1. Functions Change Log

Release Date	Version	Functions Change
Mar-2020	1.0	Update Menu Administration

2. Introduction

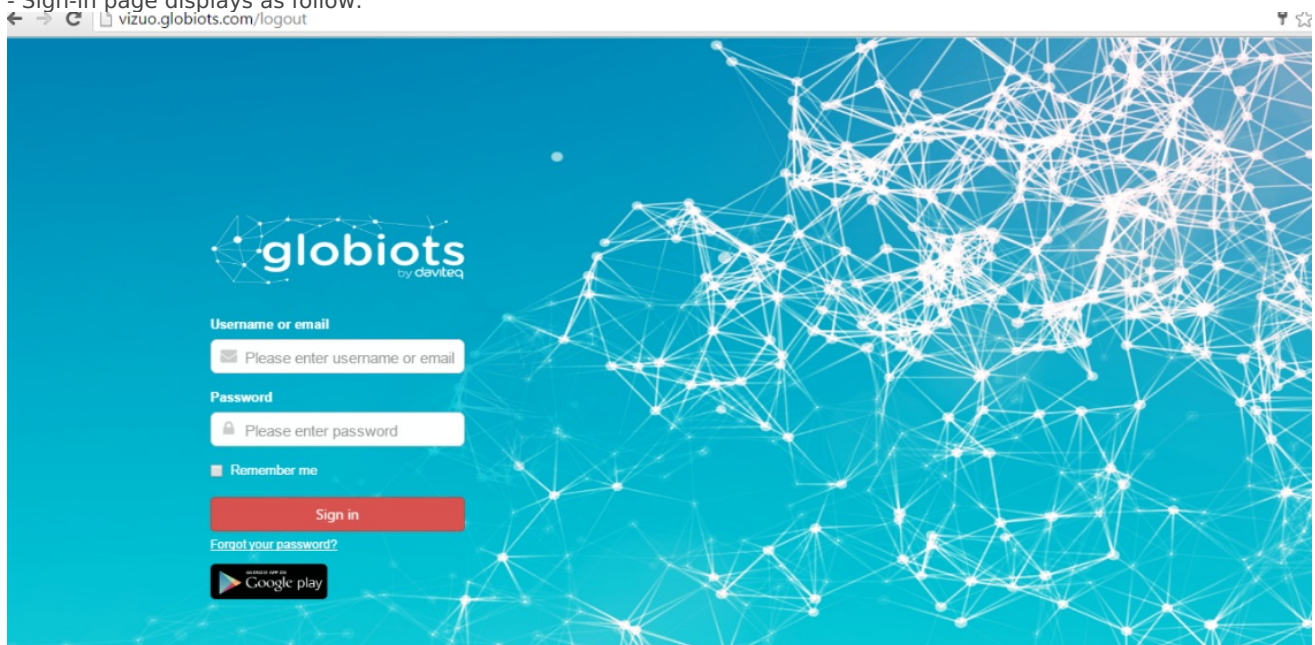
Vizuo is a web-based software application to remotely configure device, parameter, alarm and event. In addition, Vizuo displays current values, historical values of parameters as well as events, alarms. Values of parameter are stored on database of GLOBIOTS server. Below figure describes the system which uses Vizuo application software:



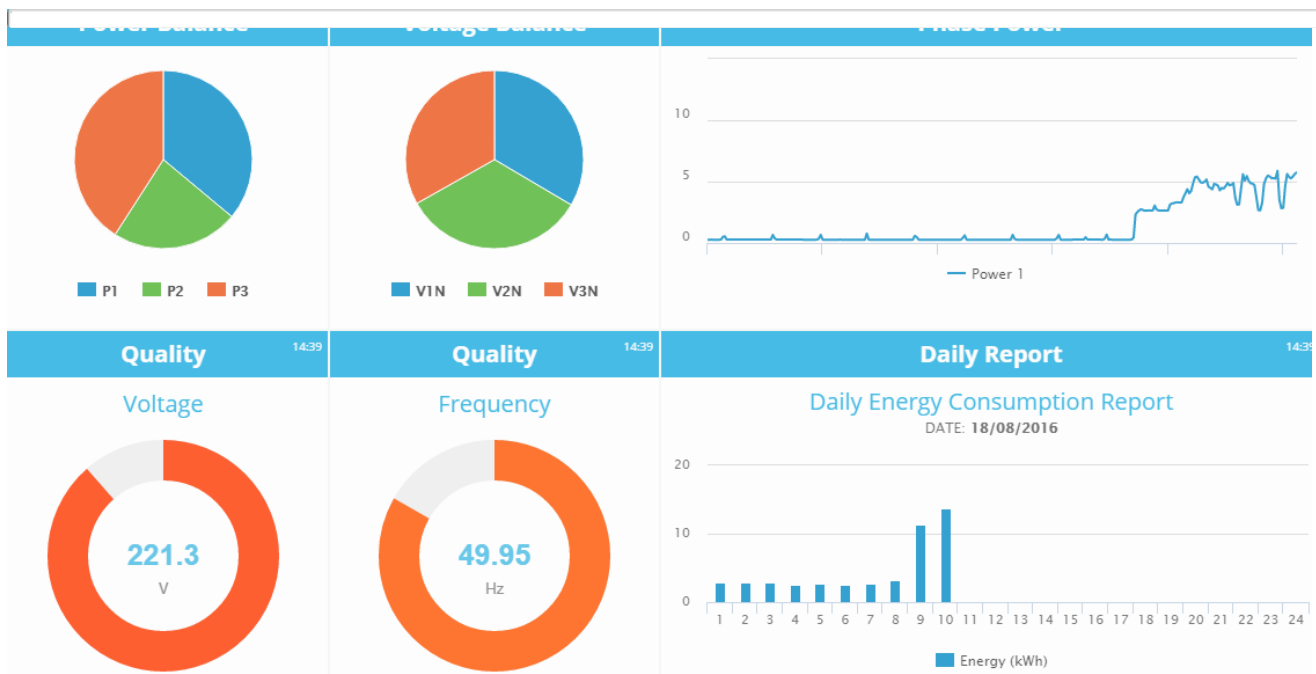
3. User Information and Actions

3.1 Sign in

- Open a web browser (Google Chrome/Firefox/Internet Explorer...).
- Enter address in URL: <http://vizuo.globiots.com/>
- Sign-in page displays as follow:



- Enter username and password
 - Click "Sign in" button.
- After successful sign-in, Dashboard screen will appear:

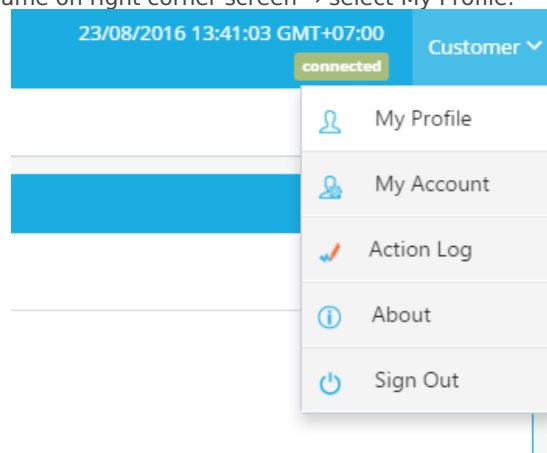


- For user first time sign-in or reset password, user's password must be changed after successful sign-in
- Screen of change password:

- After changing password successfully, Dashboard screen will display.

3.2 User Profile

- To view User Profile, click user name on right corner screen → select My Profile:



- My Profile page displays as follow:

- Basic Information tab:
 - o Name: Name of user
 - o Verify: Click to send confirmation to email address or Contact Number

3.3 Verify email

In My Profile, tab Basic Information, click Verify in row Email. After clicking, verification email will be sent to the email. User logs in email, open verification email and click verification button in email to verify email. If verification is successful, button Verify in row email should disappear

3.4 Verify Contact Number

In My Profile, tab Basic information, click Verify in row Contact Number. After clicking, authorization code will be sent SMS to user contact number and user enter this code to dialog to complete verification. If verification is successful, button Verify in row Contact Number should disappear

3.5 Account Information

To view Information of Account, click user name on right corner → select My Account. “My Account” page displays as follow:

3.6 Action Log

To view history of user action, click user name on right corner → select Action Log. “The list of Action Log” will displays as follow:

3.7 About

To view basic information of Vizuo application software, click user name on right corner → select About

3.8 Change Password

To Change Password, you click user name on right corner → select My Profile → Change Password tab, enter old password and new password, then click button Save Changes, and OK to confirm password change

3.9 Sign out

In Home page, select Username at top right corner→ click Sign Out

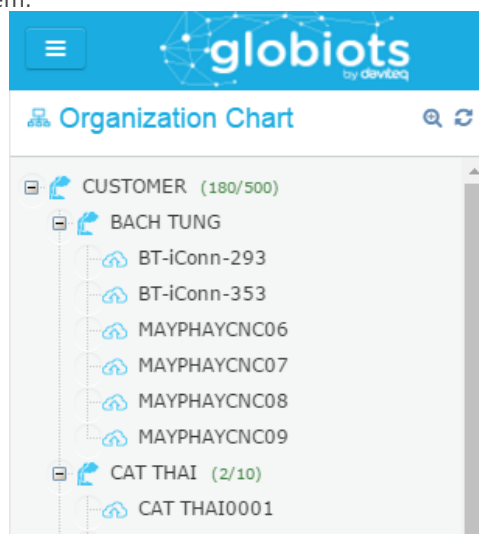
4. Configure Node

4.1 Node Definition

In Organization Chart Panel, Node is used to create Organization Chart. Node name should be geographical area, type of energy or responsible person. A Node includes one or more sub-Node and Device

4.2 Organization Chart

To close or open “Organization Chart” panel, you can click  on left corner of screen Organization Chart page includes all Node and Device in system:



- Node name
 - Number using device of account/Max number device of account
- Right click on Node name, menu of Node displays:

- New: Create new Node, Device

- Delete: Delete Node
- Assign to account: Assign Node and sub-Node to account
- Rename: Change name of Node

4.3 Create a Node

To Create a sub-Node:

- (1) Select Node
- (2) Right click and select "New"
- (3) Click "Node" to create new Node

- (4) Enter sub-Node name and click button Save, then click button OK to confirm

4.4 Rename Node

To change name of Node, right click on Node name → select Rename Or double click on Node. Enter new name and click button "Save Changes" to complete

4.5 Delete node

In Organization Chart, select Node that you want to delete, right click Node name → select "Delete", click button OK. Enter Username and Password of Account to confirm

- Do not delete a Node that is assigned to account
- Do not delete a Node that includes sub-node

4.6 Assign Node to account

- In Organization Chart panel , select Node to assign to account, right click Node name → select "Assign to account" : A list account displays:

- Click "Assign" button to assign Node to account Or Click "Unassign" to un-assign Node from account.

5. Configure Device

5.1 Device Definition

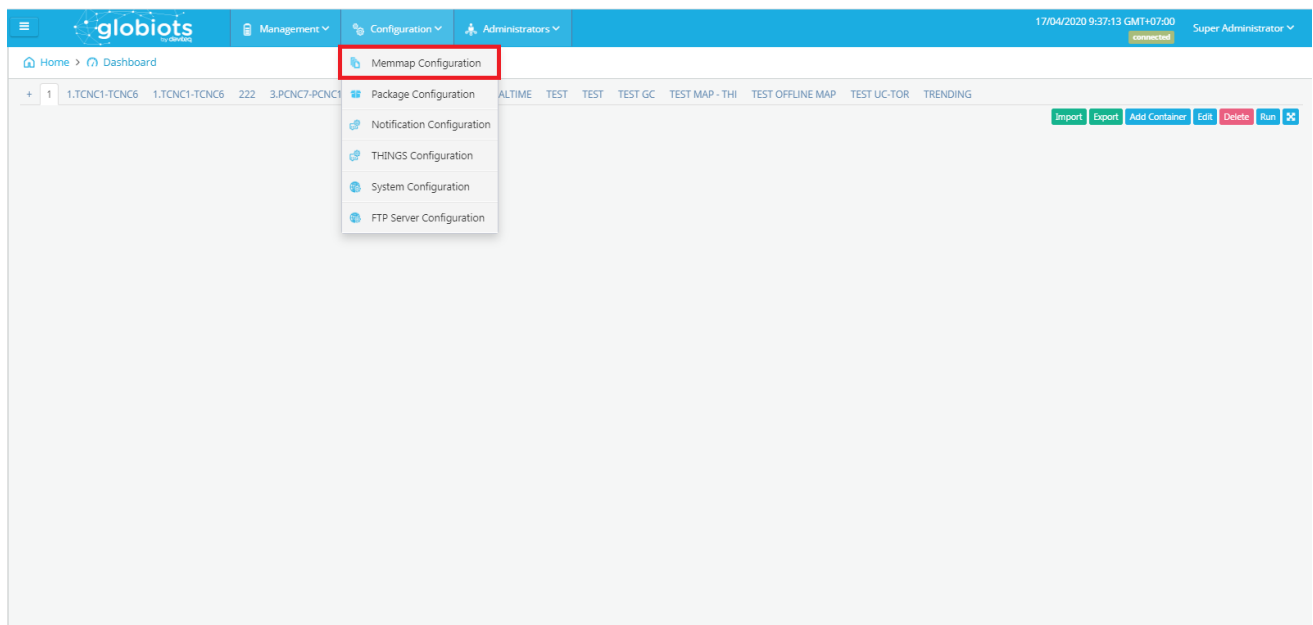
Device is smart gateway (iConnector). Device stores data from meter/sensor temporarily and then transmits data to server.

5.2 Create a new Memmap

Customer has to have a memory map excel file provided by manufacturer

To create a new Memmap:

- (1) Select Memmap Configuration

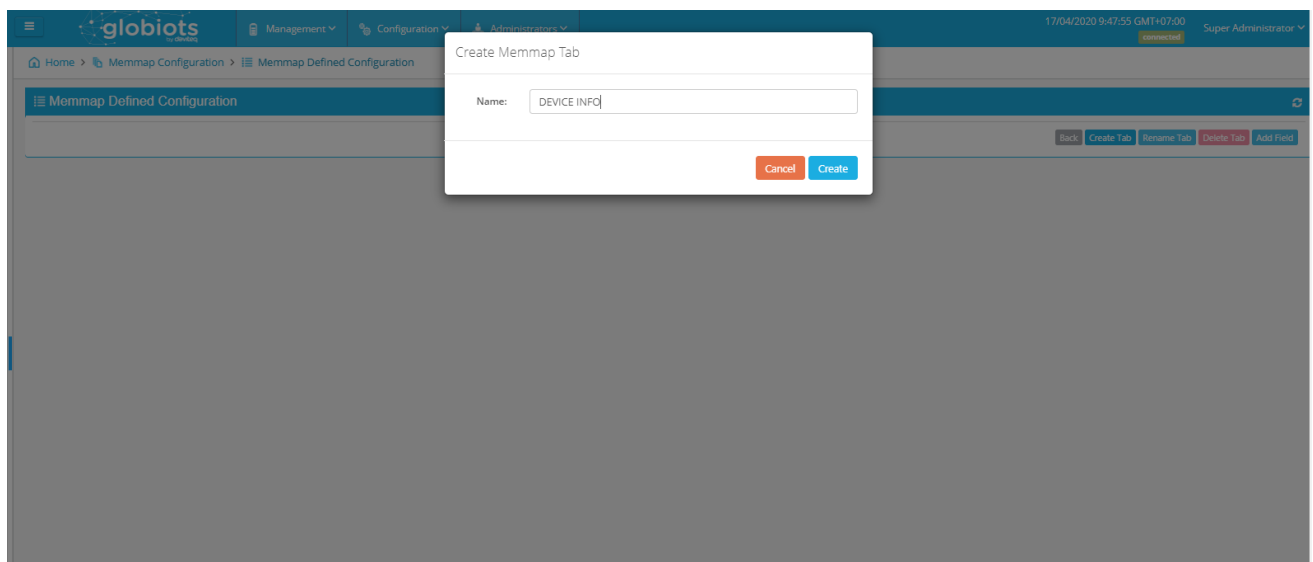


(2) Click "Add Memmap" to create a new Memmap

- **Version:** version of MemMap
 - **Address Start Logging:** Start address of the Logging configuration area, sync from server to iConnector
 - **Address Start Modbus:** Start address of the Modbus configuration area, sync from server to iConnector
 - **Address Start Alarm:** Start address of the Alarm configuration area, sync from server to iConnector
 - **Address Start Event:** Start address of the Event configuration area, sync from server to iConnector
 - **Address Start GPS:** Start address of the GPS configuration area, sync from server to iConnector
- Click "Save changes"

(3) Select Memmap and click "Config"

(4) Click "Create Tab" and fill the name of tab



(5) Click "Add field" and fill information

- **Property:** description of field
 - **Type:** have two type: TextBox and ListBox
 - o TextBox: Write value directly to Address
 - o ListBox: Mapping value then write to Address
- Example: Mapping 0=4800, 1=9600, 2=19200

- **Address:** Address from Memmap file
 - **Data Type:** Data Type from Memmap file
 - **Data Length:** Data Length from Memmap file
 - **Read:** tick to permit read
 - **Write:** tick to permit write
 - **Value:** Value write to Address
- Click "Save changes"

Example: Memmap 3.6-9600

(1) DEVICE INFO

- **FCC:** IConnector's own secret code, used to register on Globiots
- **FW Version:** Software version
- **HW Version:** Hardware version
- **ICCID:** Seri number of SIM
- **MFD Date:** Date of manufacture
- **Model:** Product code
- **Serial Number:** The unique serial number of each iConnector, without duplication, is used to register on Globiots

(2) GPRS

Property	Type	Address	Value	Data Type	Data Length	Read	Write
APN	TextBox	0100		String	64		<input checked="" type="checkbox"/>
Password	TextBox	0160		String	32		<input checked="" type="checkbox"/>
Username	TextBox	0140		String	32		<input checked="" type="checkbox"/>

- **APN:** Access point of the network operator
- **Password:** Network password

- **Username:** Network username

(3) MODBUS

Memmap Defined Configuration

DEVICE INFO GPRS MODBUS SERVER SMS SMS ALARM LABEL SMS CONFIG

Show 25 Rows

Property	Type	Address	Value	Data Type	Data Length	Read	Write
mbBaudrate	Listbox	0802	1	Byte	1		<input checked="" type="checkbox"/>
mbParity	Listbox	0803	0	Byte	1		<input checked="" type="checkbox"/>
mbStopbits	Listbox	0804	1	Byte	1		<input checked="" type="checkbox"/>
mbTimeouts	Textbox	0805	1000	Unsigned Integer 16	2		<input checked="" type="checkbox"/>
Poll Cycle	Textbox	0807	1	Unsigned Integer 32	4		<input checked="" type="checkbox"/>

Showing 1 to 5 of 5 entries

- **mbBaudrate:** Transmission rate, default "9600"
- **mbParity:** Error detection, default "None"
- **mbStopbits:** Stop bit, default "1"
- **mbTimeouts:** Timeout for slave response of a Modbus command
- **Poll Cycle:** Data update cycle

(4) Sever

Memmap Defined Configuration

DEVICE INFO GPRS MODBUS SERVER SMS SMS ALARM LABEL SMS CONFIG

Show 50 Rows

Property	Type	Address	Value	Data Type	Data Length	Read	Write
Delta Time Zone	Textbox	01DE	7	Integer 16	2		<input checked="" type="checkbox"/>
DRM Timeout	Textbox	01DD	20	Byte	1		<input checked="" type="checkbox"/>
Enable Log Sending by SMS	Textbox	01C4	0	Byte	1		<input checked="" type="checkbox"/>
Host	Textbox	0180		String	64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Port	Textbox	01C0		Unsigned Integer 32	4		<input checked="" type="checkbox"/>
SMS Server Number	Textbox	01C5	+84903898304	String	24		<input checked="" type="checkbox"/>

Showing 1 to 6 of 6 entries

- **Delta Time Zone:** Time zone
- **DRM Timeout:** The time iConnector waits for the server to respond
- **Enable Log Sending by SMS:** The function of sending log by SMS
- **Host:** Domain name of server host
- **Post:** Domain name of server post
- **SMS Server Number:** Phone number iConnector will send a log by SMS to the server
- **Poll Cycle:** Data update cycle

(5) SMS

Memmap Defined Configuration

DEVICE INFO GPRS MODBUS SERVER SMS SMS ALARM LABEL SMS CONFIG

Show 10 Rows

Property	Type	Address	Value	Data Type	Data Length	Read	Write
SMS#1	Textbox	0200	+84903898304	String	24		<input checked="" type="checkbox"/>
SMS#2	Textbox	0218	+84903898304	String	24		<input checked="" type="checkbox"/>

Showing 1 to 2 of 2 entries

- **SMS#1:** Phone number 1 allows to record configuration of server and port
- **SMS#2:** Phone number 2 allows to record configuration of server and port

(6) SMS ALARM LABEL

<div> <div>globiots</div> <div> Management Configuration Administrators </div> <div>23/04/2020 11:02:44 GMT+07:00</div> <div>Super Administrator</div> </div>								
<div> <div>Home</div> <div>Memmap Configuration</div> <div>Memmap Defined Configuration</div> </div>								
<div> <div>Memmap Defined Configuration</div> <div> <div>DEVICE INFO</div> <div>GPMS</div> <div>MODBUS</div> <div>SERVER</div> <div>SMS</div> <div>SMS ALARM LABEL</div> <div>SMS CONFIG</div> </div> <div> <div>Back</div> <div>Create Tab</div> <div>Rename Tab</div> <div>Delete Tab</div> <div>Add Field</div> </div> <div> <div>Show 50 Rows</div> <div>Search</div> </div> </div>								
	Property	Type	Address	Value	Data Type	Data Length	Read	Write
	SMS Alarm Mode	TextBox	1680	0	Byte	1		
	SMS Number of Alarm	TextBox	1681	0	Byte	1		
	SMS Alarm Code 1	TextBox	1682	255	Unsigned Integer 16	2		
	SMS Alarm Label 1	TextBox	1684		String	36		
	SMS Alarm Code 2	TextBox	16A8	255	Unsigned Integer 16	2		
	SMS Alarm Label 2	TextBox	16AA		String	36		
	SMS Alarm Code 3	TextBox	16CE	255	Unsigned Integer 16	2		
	SMS Alarm Label 3	TextBox	16D0		String	36		
	SMS Alarm Code 4	TextBox	16F4		Unsigned Integer 16	2	<input checked="" type="checkbox"/>	
	SMS Alarm Label 4	TextBox	16F6		String	36	<input checked="" type="checkbox"/>	
	SMS Alarm Code 5	TextBox	171A		Unsigned Integer 16	2	<input checked="" type="checkbox"/>	
	SMS Alarm Label 5	TextBox	171C		String	36	<input checked="" type="checkbox"/>	

- **SMS Alarm Mode:** = 1: Alarm SMS alarm from event, indicator when event from false to true
- **SMS Number of Alarm:** Number of SMS alarm (max 20)
- **SMS Alarm Code 1..10:** Set by event ID to notify SMS
- **SMS Alarm Label 1..10:** The label of the message sent the alarm

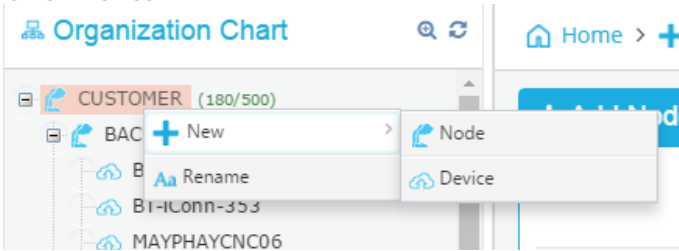
(7) SMS CONFIG

- **SMS Alarm Phone 1..6:** Phone number from 1 to 6

5.3 Create a new Device

To create a new Device:

- (1) Select Node
- (2) Right click and select “New”
- (3) Click “Device” to create a new Device



(4) A box appears:

Name*	<input type="text" value="testttttttt"/>	
Serial Number*	<input type="text" value="121506200279"/>	
Device ID (Text)*	<input type="text" value="0.0.0.34"/>	<input type="button" value="Generate"/>
Device ID (Hex)	<input type="text" value="00000022"/>	
FCC*	<input type="text" value="8865"/>	
Phone number*	<input type="text" value="1111"/>	
Created Date*	<input type="text"/>	
Last Updated*	<input type="text"/>	
Attached Date*	<input type="text"/>	
Last Signed In*	<input type="text"/>	
Status*	<input type="text" value="Registered"/>	

- Enter parameters of Device:
 - o Name: Name of Device (require 12 characters)
 - o Serial Number: provided by manufacturer (require 12 characters)
- Click "Generate" button to create Device ID or enter ID directly
- FCC: provided by manufacturer (require 4 characters)
- Phone number: Enter phone number of SIM in iConnector if available
- Click "Save" button to continue. A box appears:

- o Memmap: select memory map version provided by manufacturer

Note: In case Iconnector updates to a new Firmware, you need to update a new Memmap
To update a new Memmap:

(1) Double click Name of Device

DEVICE TEST SYSTEM (15/30)

NHAT TINH

121601211148

TEST CAP100NR

TEST GIANG NAM

TEST I/O MODULE

TM ONE

Test RF Signal

Test_Account

Wireless Sensor Node

Wireless Sensor Suitcase

haduco

Edit Device "121601211148 - 0.0.1.253"

Basic Information Configuration Monitoring

Name*

121601211148

Serial Number*

X21601211148

Device ID (Text)*

0.0.1.253

Device ID (Hex)

000001FD

NCC*

FCC*

3017

Phone number

1234

Created Date*

10/10/2019 08:43:41

6 months ago

Last Updated*

14/11/2019 16:22:46

5 months ago

Attached Date*

10/10/2019 08:43:41

6 months ago

Last Signed In*

10/10/2019 08:43:41

6 months ago

Status*

Attached

(2) Click Configuration

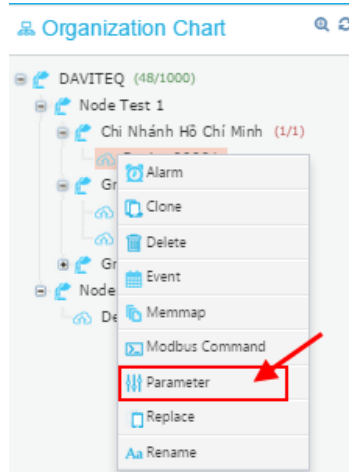
- (3) Select new memory map version provided by manufacturer
 - (4) Click "Save Changes" to finish
 - o Logging send frequency: Frequency to send logged data from iConnector to server
 - o Health send frequency: Frequency to send logged data about iConnector health from iConnector to server
- Click "Save" to continue, click button OK to confirm, and enter admin user and password to verify permission

5.4 Delete Device

To delete a Device: Right click Device name and select Delete and click OK to confirm

5.5 Configure Parameter

Click on Device, right-click, select Parameter



In List Parameters Page

Home > Parameter Management > List Parameters

List Parameters Of 'CAT THAI0001'

Buttons: Import Parameter, Export Parameter, Add Parameter, Delete All

Show 5 Rows

	Name	Virtual Parameter	Logged	Unit	Address	Data Type	Data Length
<input type="checkbox"/>	V31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V	300A	Float	4
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V	2100	Float	4
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V	3000	Float	4
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A	2055	Float	4
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hz	200A	Float	4

Showing 1 to 5 of 29 entries

Navigation: First, Previous, Next, Last

- "Import Parameter": click to Import Parameters from excel file. Excel file must have default structure.
- "Export Parameter": click to export parameter to excel file.
- "Add parameter": click to add a new parameter.

- o Name: parameter name
- o Type: Real Parameter or Virtual parameter
 - ☐ Real Parameter: Parameter from iConnector
 - ☐ Virtual Parameter: Parameter only in Server. Virtual parameter is create from formula of one or multi real parameter
 - ☐ If type is Virtual parameter, formula in Expression should be added

Mathematical Operators

Operator	Description
+	Additive operator / Unary plus
-	Subtraction operator / Unary minus

*	Multiplication operator, can be omitted in front of an open bracket
/	Division operator
%	Remainder operator (Modulo)
^	Power operator

Boolean Operators

Operator	Description
=	Equals
==	Equals
!=	Not equals
<>	Not equals
<	Less than
<=	Less than or equal to
>	Greater than
>=	Greater than or equal to
&&	Boolean and
	Boolean or

Bit Operators

<<	Left-shift bit operator in byte
>>	Right-shift bit operator in byte
&	AND bit operator in byte
	OR bit operator in byte

Mathematical Functions

Function*	Description
RANDOM()	Produces a random number between 0 and 1
MIN(<i>e1,e2, ...</i>)	Returns the smallest of the given expressions
MAX(<i>e1,e2, ...</i>)	Returns the biggest of the given expressions
ABS(<i>expression</i>)	Returns the absolute (non-negative) value of the expression
ROUND(<i>expression,precision</i>)	Rounds a value to a certain number of digits, uses the current rounding mode
FLOOR(<i>expression</i>)	Rounds the value down to the nearest integer
CEILING(<i>expression</i>)	Rounds the value up to the nearest integer

LOG(<i>expression</i>)	Returns the natural logarithm (base e) of an expression
LOG10(<i>expression</i>)	Returns the common logarithm (base 10) of an expression
SQRT(<i>expression</i>)	Returns the square root of an expression
SIN(<i>expression</i>)	Returns the trigonometric sine of an angle (in degrees)
COS(<i>expression</i>)	Returns the trigonometric cosine of an angle (in degrees)
TAN(<i>expression</i>)	Returns the trigonometric tangens of an angle (in degrees)
COT(<i>expression</i>)	Returns the trigonometric cotangens of an angle (in degrees)
ASIN(<i>expression</i>)	Returns the angle of asin (in degrees)
ACOS(<i>expression</i>)	Returns the angle of acos (in degrees)
ATAN(<i>expression</i>)	Returns the angle of atan (in degrees)
ACOT(<i>expression</i>)	Returns the angle of acot (in degrees)
ATAN2(<i>y,x</i>)	Returns the angle of atan2 (in degrees)
SINH(<i>expression</i>)	Returns the hyperbolic sine of a value
COSH(<i>expression</i>)	Returns the hyperbolic cosine of a value
TANH(<i>expression</i>)	Returns the hyperbolic tangens of a value
COTH(<i>expression</i>)	Returns the hyperbolic cotangens of a value
SEC(<i>expression</i>)	Returns the secant (in degrees)
CSC(<i>expression</i>)	Returns the cosecant (in degrees)
SECH(<i>expression</i>)	Returns the hyperbolic secant (in degrees)
CSCH(<i>expression</i>)	Returns the hyperbolic cosecant (in degrees)
ASINH(<i>expression</i>)	Returns the angle of hyperbolic sine (in degrees)
ACOSH(<i>expression</i>)	Returns the angle of hyperbolic cosine (in degrees)
ATANH(<i>expression</i>)	Returns the angle of hyperbolic tangens of a value
RAD(<i>expression</i>)	Converts an angle measured in degrees to an approximately equivalent angle measured in radians
DEG(<i>expression</i>)	Converts an angle measured in radians to an approximately equivalent angle measured in degrees

Data Type Conversion Functions

Function	Description
FLOAT	Converts values into 32-bit floating point number FLOAT(0x02, 0x02, 0x02, 0x02) FLOAT([2000], [2001], [2002], [2003])

UINT8	Converts values into 8-bit unsigned integer number UINT8(22) UINT8([2000])
INT8	Converts values into 8-bit signed 2's complement number INT8(22) INT8([2000])
UINT16	Converts values into 16-bit unsigned integer number UINT16(22, 23) UINT16([2000], [2001])
INT16	Converts values into 16-bit signed 2's complement number INT16(22, 23) INT16([2000], [2001])
UINT32	Converts values into 32-bit unsigned integer number UINT32(0x02, 0x02, 0x02, 0x02) UINT32([2000], [2001], [2002], [2003])
INT32	Converts values into 32-bit signed 2's complement number INT32(0x02, 0x02, 0x02, 0x02) INT32([2000], [2001], [2002], [2003])

Logical Functions

Function*	Description
NOT(<i>expression</i>)	Boolean negation, 1 (means true) if the expression is not zero
IF(<i>condition,value_if_true,value_if_false</i>)	Returns one value if the condition evaluates to true or the other if it evaluates to false. The IF could be in another IF function
AND(<i>expression 1, expression 2, expression 3, ..</i>)	Returns 1 (means true) if all true expressions, return 0 (mean false) if at least one false expression.
OR(<i>expression 1, expression 2, expression 3, ..</i>)	Returns 1 (means true) if at least one trueexpression, return 0 (mean false) if all false expressions.

Supported Constants

Constant	Description
e	The value of <i>e</i> , exact to 70 digits
PI	The value of <i>PI</i> , exact to 100 digits
TRUE	The value one
FALSE	The value zero
NULL	The null value

Note: Virtual parameter can't use for event.

Example 1:

Value of Virtual Parameter have address at 2012 is calculated as follow [2012] = [2000] + [2002.]In which address 2000 and 2002 are two real parameters

Example 2:

IF [2000]>10 then [2005]=1
IF [2000]<=10 then [2005]=2

Example 3:

IF [2000]=1 And [2005]=2 then [2010]=5
IF [2000]!=1 And [2005]!=2 then [2010]=[2007]+10

Example 4:

IF [2000]>10 then [200A]=1
IF [2000]<10 And [2010]=1 then [200A]=5
IF [2000]<10 And [2010]!=1 then [200A]=10

Example 5:

Name*	<input type="text" value="Exam 5"/>
Type	<input type="text" value="Virtual Parameter"/>
Expression*	<input type="text" value="FLOAT([2000], [2001], [2002], [2003])"/>
Unit	<input type="text" value="None"/>
Logged	<input type="checkbox"/>
Logging Priority	<input type="text"/>
Logging Frequency	<input type="text" value="2 minutes"/>
Time To Live	<input type="text" value="12 days"/>
Data Type*	<input type="text" value="Float"/>
Data Length*	<input type="text" value="4"/>
Address (hex)*	<input type="text" value="2023"/>
Decimal Places*	<input type="text" value="4"/>

If value from [2000] is 0x40, [2001] is 0xb0, [2002] is 0x00 and [2003] is 0x00. Then result from expression `FLOAT([2000], [2001], [2002], [2003])` is 5.5

- o Unit: Unit of parameter
- o Logged: Tick to permit saving value of parameter into database
- o Logging Priority: enter any value
- o Logging Frequency: select frequency to log data from meter/sensor/device/instrument into iConnector memory
- o Time to live: select how long data will be stored in database
- o Data Type: Type of parameter
- o Data Length: Length of data type, byte unit, display automatically with data type. If data type is String, data length should be input
- o Address: Address in iConnector memory map to store value of parameter
- o Decimal Places: number of decimal after the comma.
- Save: click to finish
- "Delete All": click to delete selected parameters
- Edit: click to edit this parameter
- Delete: delete parameter
- Add Alarm Configuration: Click to add Alarm for parameter

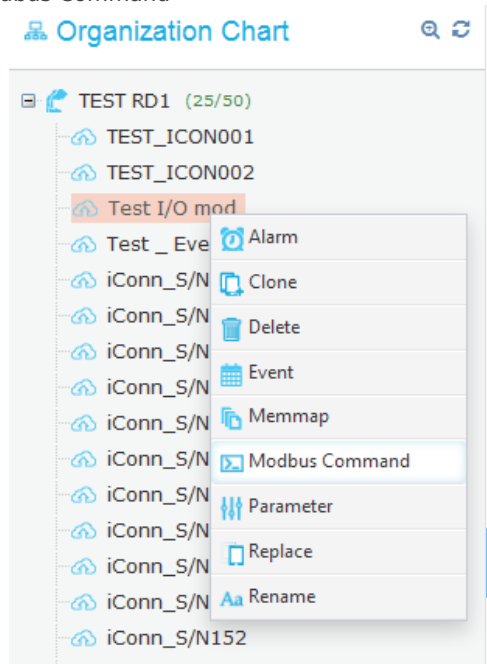
- o (1) Display Device name & Parameter.
- o (2) Enter Alarm value:
 - ☐ Hysteresis of HiHi, Hysteresis of Hi, Hysteresis of Lo, Hysteresis of LoLo: Enter any value, there are 4 level for Alarm.
 - ☐ HiHi: Value at very high level.
 - ☐ HiHi Comment: Comment of very high level.
 - ☐ Hi: Value at high level.
 - ☐ Hi Comment: Comment of high level
 - ☐ Lo: Value at low level.
 - ☐ Lo Comment: Comment of low level.
 - ☐ LoLo: Value at very low level.

- LoLo Comment: Comment of very low level.
- o Click “Save” button and then click button OK to save Alarm Configuration for parameter.

Note: After Configure Parameter, you must synchronize (refer to 5.11 Synchronize Device for more details)

5.6 Configure Modbus Command

- Select Device, right-click, select Modbus Command



- Modbus Configuration page displays as below:

ADD MODBUS CONFIG

Response Location	Slave Address	Function Code	Parameter 01	Parameter 02	
<input type="text"/>	<input type="text"/>	Function 01 <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

MODBUS CONFIG LIST

Show Rows

	<input type="checkbox"/>	Response Location	Slave Address	Function Code	Parameter 01	Parameter 02
<input type="checkbox"/>	<input type="checkbox"/>	2000	05	Function 03	0096	0002
<input type="checkbox"/>	<input type="checkbox"/>		05	Function 04	03EB	0001
<input type="checkbox"/>	<input type="checkbox"/>		05	Function 05	0000	0002

- MODBUS CONFIG LIST (1)
 - o Button “Edit”: click to edit Modbus Command. Modbus Command will display in (2) to edit
 - o Button “Delete”: click to delete Modbus Command.
 - o Button “Import”: click to import Modbus Command list from excel file
 - o Button “Export”: click to export Modbus Command list to excel file
 - o Button “Delete All”: click to delete all Modbus Command
- ADD MODBUS CONFIG (2)

ADD MODBUS CONFIG

Response Location	Slave Address	Function Code	Parameter 01	Parameter 02		
2019	1F	Function 03	000A	0002	Update	Cancel

MODBUS CONFIG LIST

Show 10 Rows

Import

Export

Delete All

Search

	Response Location	Slave Address	Function Code	Parameter 01	Parameter 02
2019	1F	Function 03	000A	0002	
	1D	Function 03	0004	0002	
	1D	Function 03	000A	0002	

o Response Location: Address of parameter in iConnector

o Slave ID: Modbus ID of meter/sensor/device/instrument which connect to iConnector through RS485 port

o Function Code: Function Code of Modbus Command. Function Code consist of read function and write function. In user manual of meter/sensor/device/instrument should mention supported function code.

o Parameter 01: Starting address of parameter in memory map of meter/sensor/device/instrument

o Parameter 02: Number of registers of parameter in memory map of meter/sensor/device/instrument

o Button "Add": Click to add new Modbus Command

o Button "Update": After click "Edit" button in (1), "update" will display. After editing Modbus command and click "Update" to save change.

Note:

□ Response Location in iConnector for read Modbus data :0x2000 -> 0x21FF

□ Response Location in iConnector for write Modbus data: 0x3000 -> 0x307F

□ After configuring, Modbus Command should be synchronized to iConnector (refer to 5.11 Synchronize Device for more details)

Example:

Configure modbus command for reading parameter Voltage, data type: float, from address 0000 on power meter (ID=32) and store at address 2000 on iConnector, using function 04 of modbus command. The configuration as follow:

Explanation:

ID=32 (decimal) =20 (Hexa) = Slave Address

Parameter 01 = Start Address = 0000

Parameter 02 = Number of register of parameter. Data type = float (4 bytes) = 02 register

5.7 Configure Alarm

- To configure Alarm: Right click Device name and select Alarm. "List Alarms" page appears:

- Click "Edit" to edit alarm (refer to 5.4 Configure Parameter → Add Alarm Configuration for more details)
- Click "Delete" to delete alarm

Note: After configure Alarm, synchronization must be done (refer to 5.11 Synchronize for more details)

5.8 Configure Event

To configure Event: right click Device name and select Event. "The List Of Event" page displays as below:

[Home](#) > [The List Of Event](#)

List Events Of 'REMOTEMS0279'

Show10Rows

Import Event

Export Event

Add Event

Search

	Event ID	Event Name	Priority	Server Notification	ON Delay	OFF Delay	Parameter	Logical Operator
<div><div></div><div>Edit</div><div>Delete</div><div>Action</div><div>Condition</div></div>	1	Level switch ON	1	<input checked="" type="checkbox"/>	1	1	Alarm 1	OR
		Level switch OFF	1	<input checked="" type="checkbox"/>	1	1	Alarm 1	OR

First

Previous

Next

Last

- Import Event: Import event from excel file
- Export Event: Export event to excel file
- Add Event: click to add a new event

+ Add Event Config

Event ID*

Event Name*

Comment*

Priority*

Server Notification ☐

ON Delay* seconds

OFF Delay* seconds

Logical Operator

Parameter

[Cancel](#) [Save](#)

- o Event ID: from 1 to 127 (event ID is only)
- o Event name: name of event
- o Comment: explain for event
- o Priority: Any value
- o On Delay: Delay time (second) when condition is true
- o Off Delay: Delay time (second) when condition is false
- o Logical Operator (AND/OR): Logical Operator for conditions of event
- o Parameter: select parameter sent to server when event occur. Only display Real Parameter
- o Click "Save" to finish
- Edit: Click to edit event
- Delete: Click to delete event
- Action: Click to configure action for event. An event might have some actions. The List of Actions page displays:

The List Of Actions

Back [Add Action](#)

Show 10 Rows

Search

	Action Name	Action Type	Parameter	Repeat	Value True	Value False
	Alarm 1 ON	01 - parameter vs constant	Alarm 1	<input checked="" type="checkbox"/>	1	

[Edit](#)
[Delete](#)

[First](#)
[Previous](#)
[Next](#)
[Last](#)

- o Add Action: click to add a new action

+ Add Action

Action Name*

Action Type

Parameter*

Value true*

Repeat ☐

[Cancel](#) [Save](#)

- ☐ Action Name: Name of Action
- ☐ Action Type: Select type of Action. There are 04 type of available action
 1. Type 1: 01- Parameter vs constant: Action to assign constant to parameter if condition is true
 2. Type 2: 02-parameter vs parameter: Action to assign constant to parameter if condition is true and false
 3. Type 3: Action to assign value of source parameter to value of destination parameter if condition is true
 4. Type 4: Action to assign value of source parameter to value of destination parameter if condition is true and false
- ☐ Repeat: tick to implement action once condition is still true. If Repeat: is not ticked, the action only is implemented when condition from FALSE to TRUE.

- Value true: constant assigned to parameter when condition is true
- Value false: constant assigned to parameter when condition is false
- Write Parameter: Destination parameter which is assigned value
- Read Parameter: Source parameter
- True Parameter: Source parameter if condition is true
- False Parameter: Source parameter if condition is false
- Save: click “save” to finish
- o Edit: click to edit action of event
- o Delete: click to delete action

Note: Written parameter in action must have address in range 3000-307F

- Condition: click to configure condition of event. An event might have one or multi conditions. Value of total condition is formed from logical operator of multi conditions

The List Of Conditions

Show 10 Rows

Back Add Condition

Search

Condition Name	Condition Type	Primary Parameter	Comparison Operator	Secondary Parameter	Constant
Level switch ON	01 - Parameter vs Constant	Level_Switch	== Equal to		1

Edit Delete

First Previous Next Last

- o Add Condition: click to add new condition

+ Add Condition

Name* Fuel Loss

Type 01 - Parameter vs Cons...

Condition* Param 1 < Less than -10

Cancel Save

- Condition Name: Name of condition
- Condition Type: Type of condition. There are 3 types of condition
 - + Type 1: 01- Parameter vs constant: Compare value of parameter to constant
 - + Type 2: 02-parameter vs parameter: Compare value of parameter to value of another parameter
 - + Type 3: 03- Parameter (bit) vs constant: Compare value of bit complex of parameter to constant
- Condition: Compare value of a parameter to constant or value of a parameter to value of another parameter. Compare Operators are less than, less than or equal to, equal to, not equal, greater than, greater than or equal to
- Click “Save” to finish
- o Edit: click to edit condition of event

Edit Condition

Name* Fuel Loss

Type 01 - Parameter vs Cons...

Condition* Param 1 < Less than -10

Cancel Save Changes

- o Delete: click to delete a condition of event

Note:

- Each Event have maximum 8 conditions
- After configure Event, you must synchronized (refer to 5.11 Synchronize Device for more details)

Example:

Configure Event to create parameter Power Status:

Power Status =1 when iConnector Power Supply > 8 VDC and Main Meter Error=0 in more than 2s.

Power Status=0 when iConnector Power Supply <=8 and Main Meter Error=0 in more than 3 s.

When event occur, event will be sent to server

Configuration for this event, condition and action as follow:

+ Add Event Config

Event ID*

1

Event Name*

Power Status

Comment*

Power Status

Priority*

1

Server Notification

☒

ON Delay*

2

seconds

OFF Delay*

3

seconds

Logical Operator

AND

Parameter

Power Status

Cancel

Save

+ Add Condition

Condition Name*

Main Meter Error=0

Condition Type

01 - Parameter vs Constant

Condition*

Main Meter Error

== Equal to

0

Cancel

Save

+ Add Condition

Condition Name*

Power Supply >8

Condition Type

01 - Parameter vs Constant

Condition*

iConnector Power Supply

> Greater than

8

Cancel

Save

5.9 Clone Device

To create a new Device have same Parameters, Alarm Config, Modbus Command, Menmap, Event Configure ..., select original Device, right-click, select "clone". Below page appears

Refer to 5.2 "Create a new Device" for more details.

5.10 Replace Device

To replace Device:

- Right click Device name and select Replace
- A box displays:

Replace Device

Serial Number*	<input type="text" value="121601210350"/>
FCC*	<input type="text" value="1660"/>
Status*	<input type="text" value="Registered"/>

- o Enter serial number and FCC of new Device
- o Click “OK” to continue
- A box appears

Click “Yes” to finish

5.11 Rename Device

To change name of Device: Right click Device name, select Rename, and enter new name

5.12 Synchronize Device

To change name of Device: Right click Device name, select Synch, and tick type of configuration to synchronize to iConnector, click Sync, enter password to confirm permission

After successful synchronization, Text Synchronized should appear on 4 line of dialog box. If iConnector disconnected, message should appear to inform that synchronization will implement once iConnector connect to server.

5.13 Edit Device

To Edit Device, click Device, “Edit Device” page appears as follow:

5.13.1 Basic information

To view and edit basic information of Device, In Edit Device page, select Basic Information Tab.

- Click “Replace” to change a new Device (refer to 5.9 Replace for more details)
- Click “Save Changes” to save

5.13.2 Configuration

In Edit Device Page, select Configuration Tab.

Memmap*	2.5.5-19200
Logging send frequency*	5 minutes
Health send frequency*	5 minutes
Logging	Synchronized
Modbus Config	Synchronized
Alarm Config	Synchronized
Event Config	Synchronized

Save Changes

Replace

- Memmap: Memmap version of iConnector
- Logging send frequency: frequency to send logged data from iConnector to server
- Health send frequency: frequency to send logged data about iConnector health from iConnector to server
- Logging: synchronize status of logged parameters.

Select "Unsynchronized" and click Save Changes after changing parameter configuration to synchronize new parameter configuration from server to iConnector

- Modbus Config: synchronize status of modbus command.

Select "Unsynchronized" and click Save Changes after changing Modbus Command configuration to synchronize new Modbus Command configuration from server to iConnector

- Alarm config: synchronize status of alarm configuration

Select "Unsynchronized" and click Save Changes after changing alarm configuration to synchronize new alarm configuration from server to iConnector

- Event config: synchronize status of event configuration

Select "Unsynchronized" and click Save Changes after changing event configuration to synchronize new event configuration from server to iConnector

- Load Basic Info: reload basic info of device and reload list sensor

Select "Unloaded" and click Save Changes after changing please waiting some minute or more to loaded new info from iConnector

Longitude

106.12312

Model

STHC-ISGWF/WR433-01

Manufacture Date

08-2018

Hardware Version

1.1

Firmware Version

w1.5_12

Memmap Version

4.4

IMEI

2 2

Cellular Network

2 2

ICCID

2 2

Save Changes

Replace

Edit Device '121601211399 - 0.0.0.8'

Basic Information

Configuration

Monitoring

Memmap*

4.1.4-9600 - RD1

Logging send frequency*

5 minutes

Health send frequency*

5 minutes

Logging

Synchronized

Modbus Config

Synchronized

Alarm Config

Synchronized

Event Config

Synchronized

Load Basic Info

Unloaded

Save Changes


Replace


5.13.3 Monitoring

In Edit Device Page, select Monitoring Tab.

- Health Status: display Connection status between iConnector and server (Connected/Waiting for connect/Disconnected)
- Config Status: display synchronization status (Synchronized or Unsynchronized)

- Last Load List Sensor Node: Show list sensor info is reloaded from configuration **Load Basic Info**

 - Synchronized

 - Unsynchronized

Last Event:

Last Alarm: 20/01/2021 15:28:25
(🕒 a year ago)

Last Get Data: 03/04/2022 20:45:22
(🕒 5 days ago)

Last Set Data: 03/04/2022 20:45:22
(🕒 5 days ago)

Last Load List Sensor Node : 03/04/2022 20:45:27
(🕒 5 days ago)

Modbus Error: 0

Sensor01

Last Update: 03/04/2022 20:54:08
(🕒 5 days ago)

Serial Number: 1331

Type: 3

Error: 0

DST: 3

Battery: 80

Signal Strength: 4

Para1: 56.46

Para2: 35.47

Sensor02

Last Update: 03/04/2022 20:54:08
(🕒 5 days ago)

Serial Number: 1002

Type: 2

Error: 0

DST: 3

6. Management

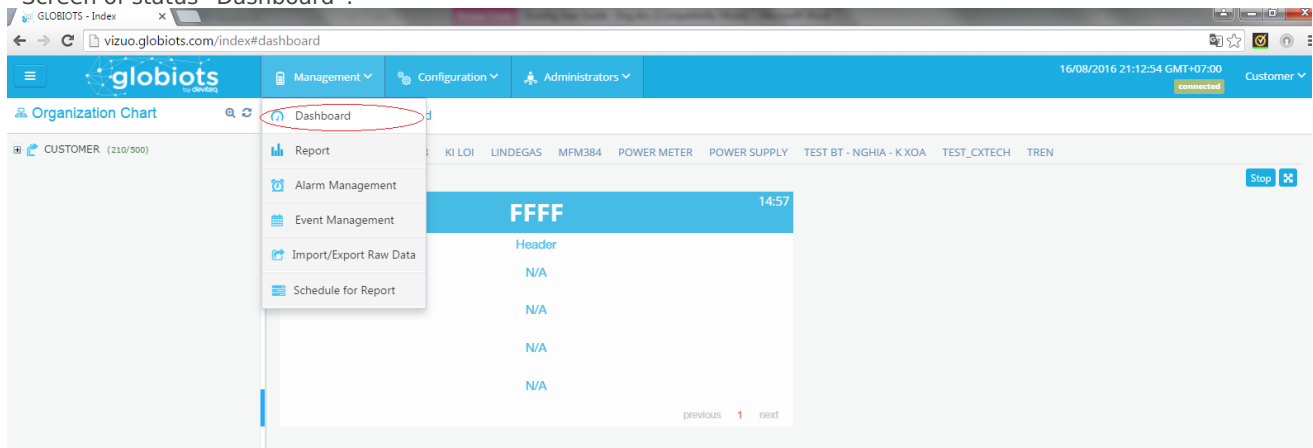
6.1 Dashboard

6.1.1 Dashboard Description

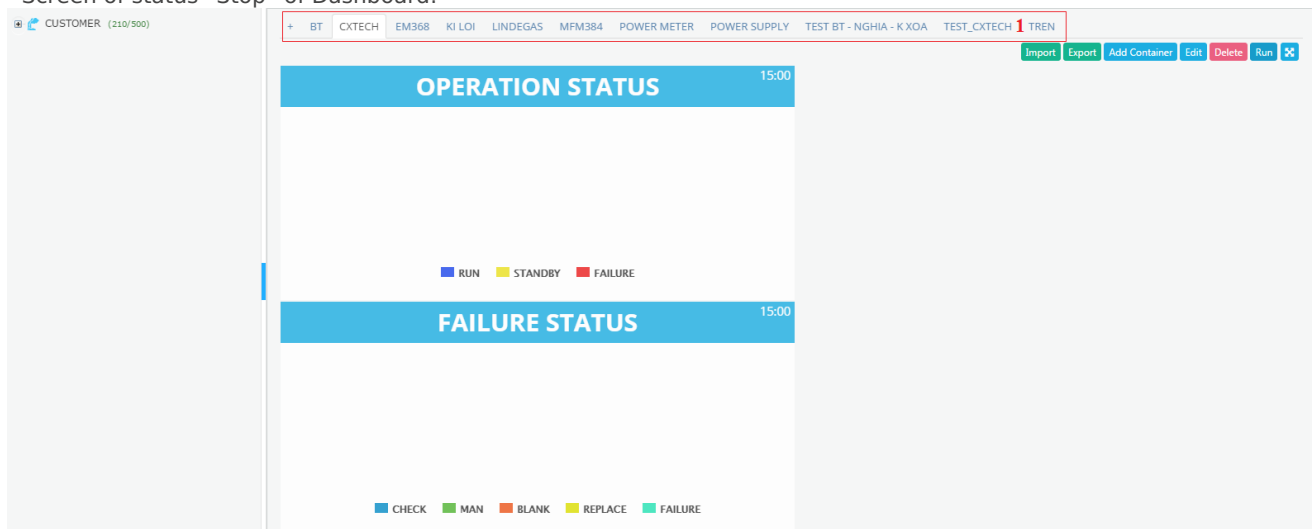
Dashboard views input text, current value and value from database. Each Dashboard is organized in one tab. When value is from database, dashboard will update the value after specific time. Dashboard consists of containers which contain widgets inside.

6.1.2 View Dashboard

- In Home screen, select menu Management → select sub-menu Dashboard to display current value of parameters.
- Screen of status “Dashboard”:



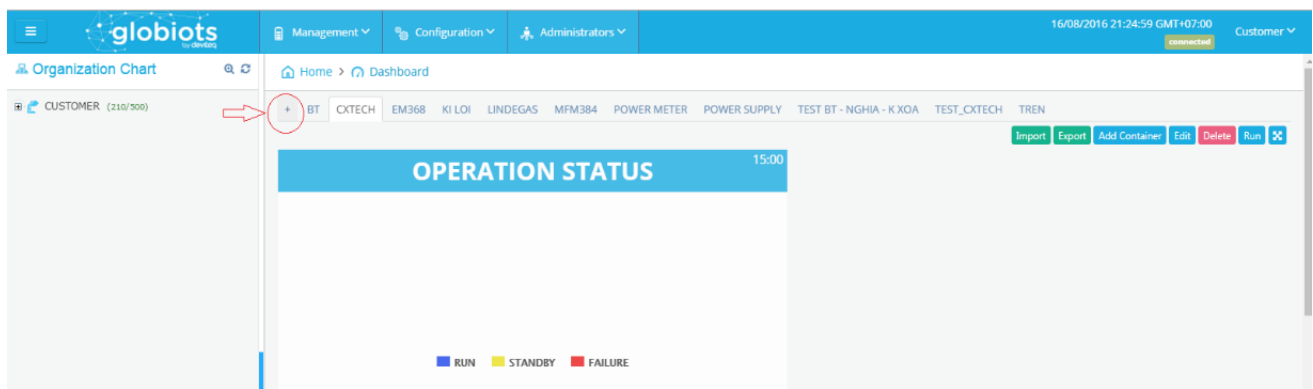
- Screen of status “Stop” of Dashboard:



- (1): Display list of Dashboard tabs which user are assigned to view
- Button “Run”: click to run Dashboard.
- Button “Stop”: click to stop selected Dashboard.
- Button “Delete”: click to delete Dashboard
- Button “Edit”: click to edit Dashboard
- Button “Add Container”: click to add new Container in Dashboard
- Button : click to fullscreen
- Button “Export”: click to export Dashboard to Excel File
- Button “Import”: Click to import Dashboard to Excel File

6.1.3 Create new Dashboard

- In Dashboard screen, click symbol “+” to create new tab



- New window display

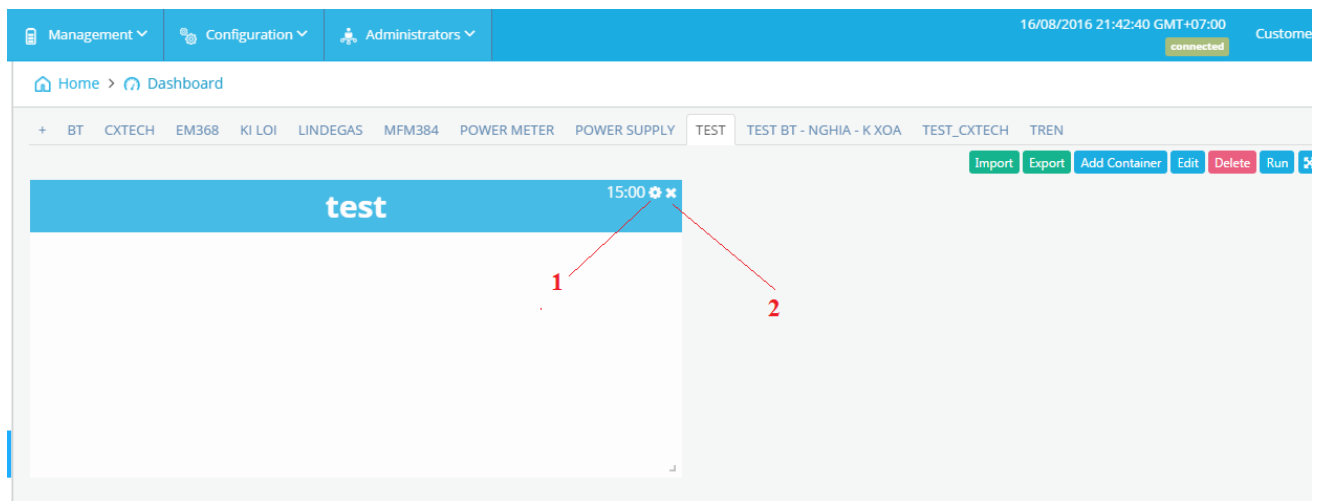
- Name: Name of new Dashboard tab
- Stop realtime after: Running time of Dashboard to get realtime data from iConnector. After this period of time, Dashboard will stop to get realtime data from iConnector.
- Click button "Run" on top right corner to continue to get realtime data
- Push Interval: Frequency to get realtime data from iConnector
- ☐ Click Save to complete creating new Dashboard

6.1.4 Create New Container


- In Dashboard tab, click Add Container to add new Container

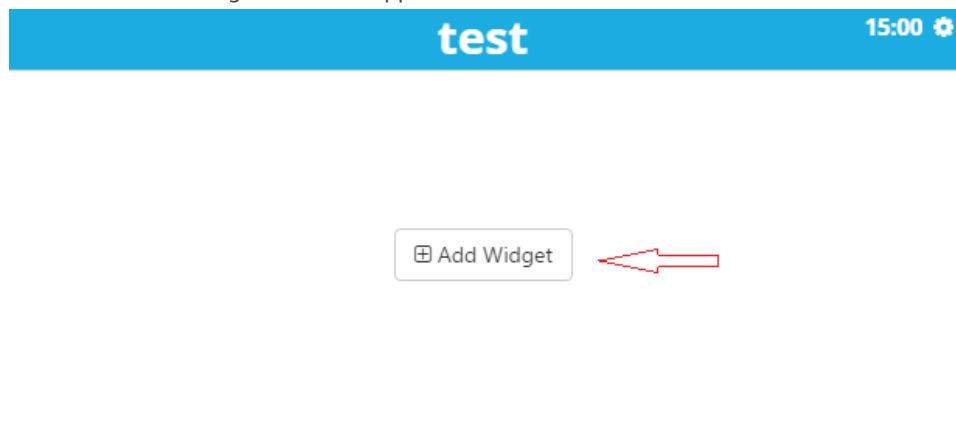
- Title: Name of container
- Format: Font size, Style, Text color, Text align, Background.
- Poll Interval: Frequency to get logged data from database to view on Dashboard
- Layout: Select layout of container. There are 07 layouts select
- ☐ Click Save to complete creating Container

6.1.5 Configure a Container



- (1): Edit Container
(2): Delete container.

Click  to Edit Container. Following screen will appear



- Click Add Widget to add new widget

Note: Stop Dashboard before configure Container/Widget

6.1.6 Widget

6.1.6.1 Widget Description

Widget is a basic element of Dashboard to view constant, value of parameter. Currently, Vizuo has below widgets

After select widget click Add to add new widget to Container

6.1.6.2 Widget Table

The screenshot shows the 'Cell Configuration' interface for a table widget. At the top, there are settings for Title, Style (Bold, Italic, Underline), Font size (20 px), Text color (blue), and Text align (Center). Below these are checkboxes for 'Paging' and 'Item Per Page' (set to 5). A 'Border' section shows three icons for border styles. The main area is a table with a 'Header' row and several data rows. A red arrow points to a gear icon in the first data row, labeled 'Configure'. The table has columns for 'Header' and data. There are buttons for 'New Column' and 'New Row'.

- Paging: Tick to view table more than one page
- Border: Select type of border: None, Border and Inside
- New Column: Click to add new column
- New Row: Click to add new row

- : Move column
- : Configure cell
- : Close/Delete column or row
- : Copy new row
- : Click to select type of border for cell

- Configure Row
- After clicking , configuration screen for new row will appear

Configure cell [0, 1]

The 'Configure cell [0, 1]' dialog box contains the following settings:

- Style:** B, I, U (with a red '1' next to the I icon)
- Font size:** 15 px
- Text color:** #1BADE1
- Text align:** Center
- Data type:** Device (selected), Realtime (checked with a blue border)
- Parameter:** Device (selected), Parameter (selected with a red '2' next to it)
- Up/Down Icon:** ☐
- Mapping:** ☐

At the bottom right are 'Cancel' and 'Save' buttons.

(1): Format

(2): Configure

Choose Data type: Constant (input text), Data from Database (Device Name, Parameter Name, Unit of Parameter, Last value of parameter in Database, time stamp of last value), Data from device (Realtime Data or Current Data). Realtime data is data push from iConnector and Current Data is data pull from iConnector

Up/down icon: Tick to add up/down icon. Up icon appears when last value is less than current value whereas down icon appears when last value is greater than current value. These icons are available when realtime data is displayed in cell

Mapping: tick Mapping and list out value and mapped text, then click to add mapping value. Mapping should be used to view meaningful text instead of value

6.1.6.3 Widget Line Chart

Click  to configure widget Line Chart, the following screen appear

- Title: Line Chart name
 - Style: Format of Title
 - YAxis: Fixed or Auto. If choose Fixed, enter min & max value. If select Auto, software will specify Max of Y axis based on value of displayed parameter.
 - Type: Data type of parameter to view (Data from device or from database)
- Type Device: Realtime data and display Max point value on line chart
Type Database: Logged data from database, time period include: Today, Yesterday, Last 3 days or Custom (From...To)
• Line configuration: Select displayed parameter and displayed label (input text, parameter name or device name)
Click Add button to add parameter to line chart. A line chart could view some parameters

6.1.6.4 Linear Gauge

Click  to configure widget Line Gauge, the following screen appear

- Title: Name
 - Style: Format of title
 - Direction: Vertical or Horizontal Linear Gauge
 - Min, Max: Range of Gauge
 - Range Color: Auto or Custom
- Auto: Color of Gauge changes according to value of parameter
Custom: Configure specific color to specific range of value of parameter
- Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device)
 - Device/Parameter: Select displayed parameter
 - Write: Tick to enable to write value to parameter. Writing value to parameter by holding and drag on body of Linear Gauge
- Click Save Changes to complete configuration

6.1.6.5 Solid Gauge

Click  to configure widget Solid Gauge, the following screen appear

- Title: Name
 - Style: Format of title
 - Min, Max: Range of Gauge
 - Range Color: Auto or Custom
- Auto: Color of Gauge changes according to value of parameter
Custom: Configure specific color to specific range of value of parameter
- Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device)
 - Device/Parameter: Select displayed parameter
- Click Save Changes to complete configuration

6.1.6.6 Circular Chart

Click  to configure widget Solid Gauge, the following screen appear

- Title: Name
 - Style: Format of title
 - Min, Max: Range of Chart
 - Range Color: Auto or Custom
 - Auto: Color of Chart changes according to value of parameter
 - Custom: Configure specific color to specific range of value of parameter
 - Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device)
 - Device/Parameter: Select displayed parameter
 - Write: Tick to enable to write value to parameter. Writing value to parameter by holding and drag on body of Circular Chart
- Click Save Changes to complete configuration

6.1.6.7 Column Chart

Click  to configure widget Solid Gauge, the following screen appears

- Title: Column Chart name
 - Style: Format of Title
 - Type: Data type of parameter to view (Data from device or from database)
 - Type Device: Realtime data
 - Type Database: Logged data from database, last value or value series in time period include: Today, Yesterday, Last 3 days or Custom (From...To)
 - Column configuration: Select displayed parameter and displayed label (input text, parameter name or device name)
- Click Add button to add parameter to column chart. A column chart could view some parameters

6.1.6.8 Control Panel

Title Style / Column Row

- ## Add Widget To Control Panel

Cancel Add

- Configure Simple Button

Title Simple Button Style B / U 15

owing 0 to 0 of 0 entries

- Configure Advanced Button

File **Find**

Showing 0 to 0 of 0 entries

- Title: Name of Button
 - Style: Format of Tittle/Label
 - Label: Label on Button
 - Parameter for reading: Select reading parameter.
 - Operator: Logical Operator of Reading parameter and mask
 - Mask: Mask to calculate written value. Mask format is binary or Hexa
 - Parameter for reading: Select written parameter. This parameter should have address in range 3000-307F. Written value is the result of reading value and mask with logical operator
- Click Add to add button. User could add some buttons in one widget

- Configure Led

Led will change its color when parameter changes value.

After adding Advanced Button, following screen appear:



- Title: Tittle of LED
- Style: Format of LED tittle
- Parameter: Selcel Parameter to display
- Label: Label for LED
- Mapping Table: Define list of displayed label and color according to value of parameter
- Click Add to add LED

6.1.6.9 Map

Map shows location of iConnector (longitude and latitude) on map

Click to configure widget Map, the following screen appear

Title Style

Device list

Device

Location Longitude Latitude

No.	Device name	Longitude	Latitude	Action

- Title: Name of Map
- Style: Format of Tittle
- Device List: iConnector list to display location (longitude and latitude)
- Device: Select iConnector name
- Location: Configure longitude and latitude parameter. Location are static or dynamic


If location is static, user enter value of longitude and latitude

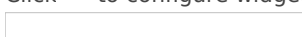
If location is dynamic, configure longitude and latitide parameter



6.1.6.10 EMS Report

EMS Report views report for energy consumption during period of time

Click  to configure widget EMS report, the following screen appears:



- Title: Report title
- Style: Format of tittle
- Report type: Daily, Weekly, Monthly
- Data range: Today, yesterday, last month, this month, last week, this week
- Column Configuration: Configure displayed value of parameter and displayed name of parameter

Click Add to add parameter for report

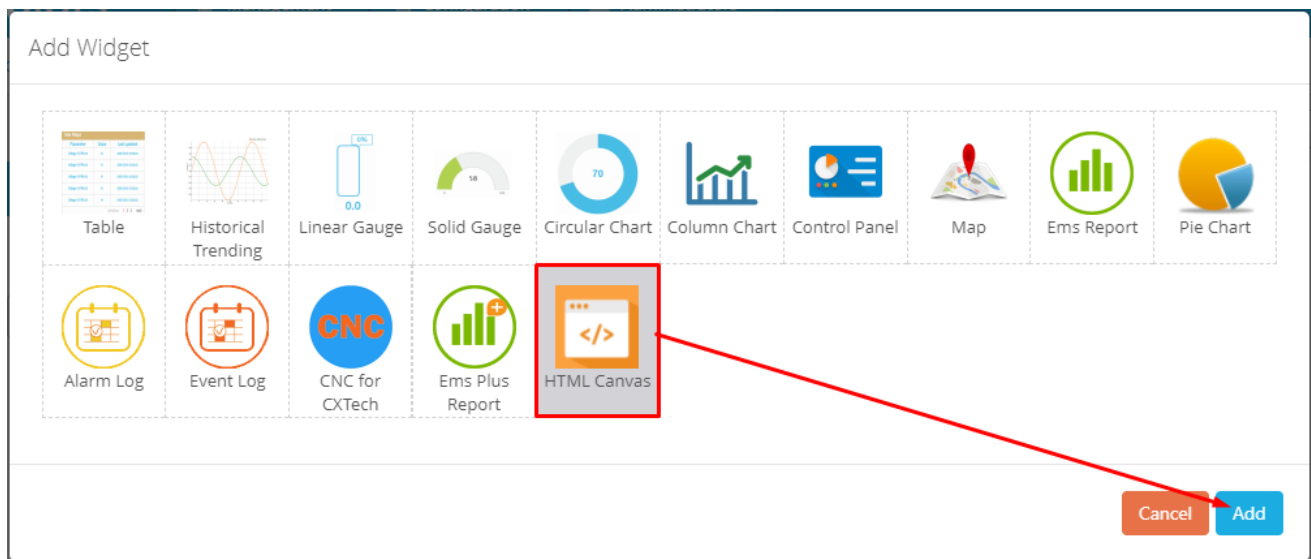
6.1.6.11 Pie Chart

Pie Chart compares values between some parameters. Click to configure widget EMS report, the following screen appears:



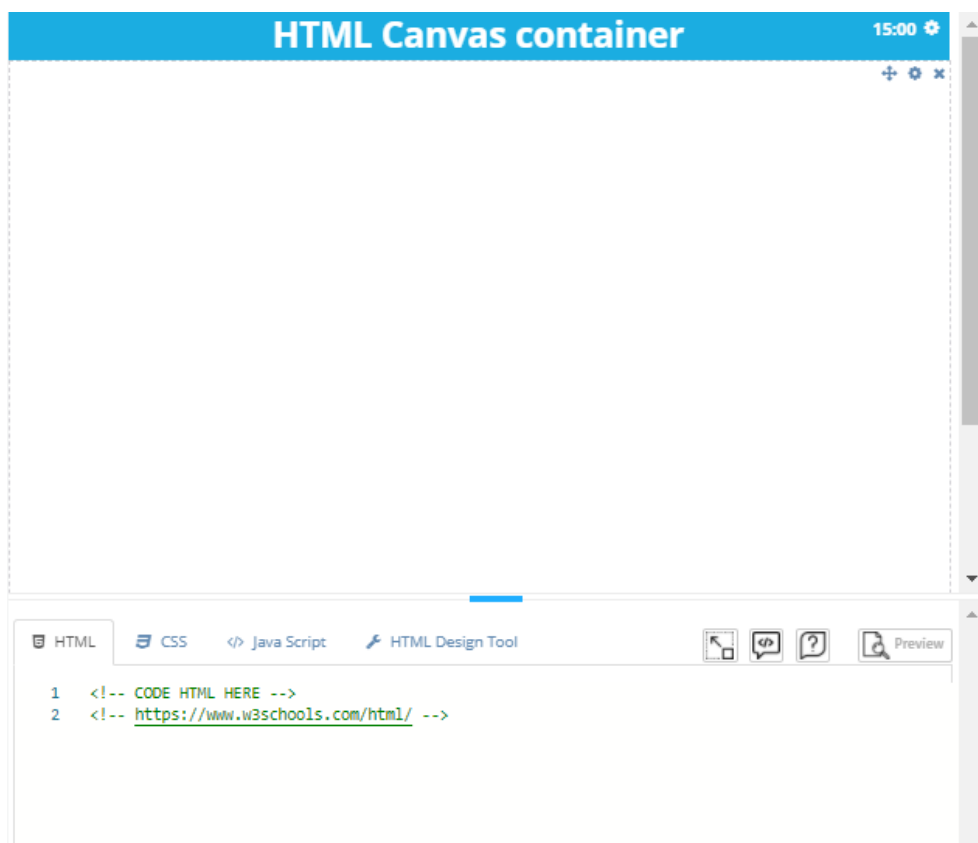
- Title: Tittle of pie chart
- Style: Format of tittle
- Type: Data type, realtime data or current value of device or last value in database
- Configuration: Configure displayed value and displayed name of parameter

6.1.6.12 HTML Canvas



How does the HTML Canvas widget work?

When you select the widget, you will find a code editor as depicted in the image below. The widget works with the same HTML/CSS/JS you would code when creating a simple website. There's no need to learn a special API.



It also consider the case when you may need to use a 3rd library (e.g. jQuery), so you can add these by inserting an URL containing the library.

IMPORTANT NOTE:

You should consider when writing code in this widget that all the execution will be made by your browser, we do not do any kind of polyfilling here, so it's up to your browser to support all the features that you make use of.

The HTML code will be:

```
<script src="https://code.jquery.com/jquery-3.5.1.min.js" integrity="sha256-9/aliU8dGd2tb60SsuzixeV4y/faTqgFtohetphbbj0=" c
<progress id="progress-bar" value="73" max="100" style="margin-bottom:10px;">70 %</progress>

<fieldset>
  <legend>Choose your favorite device</legend>

  <input type="radio" id="kraken" name="monster">
  <label for="kraken">Device 0001</label><br/>

  <input type="radio" id="sasquatch" name="monster">
  <label for="sasquatch">Device 0002</label><br/>

  <input type="radio" id="mothman" name="monster">
  <label for="mothman">Device 0003</label>
</fieldset>
```

The CSS code will be:

```
/* CODE HTML HERE */
/* https://www.w3schools.com/css/ */
legend {
  background-color: #000;
  color: #fff;
  padding: 3px 6px;
}

.output {
  font: 1rem 'Fira Sans', sans-serif;
}

input {
  margin: .4rem;
}
```

The Java Script code will be:

```
alert('Say hello world!!!');
var progressBar = $('#progress-bar');
```



Full screen editor code.



Get embed link: Pubic link, private link.



Preview

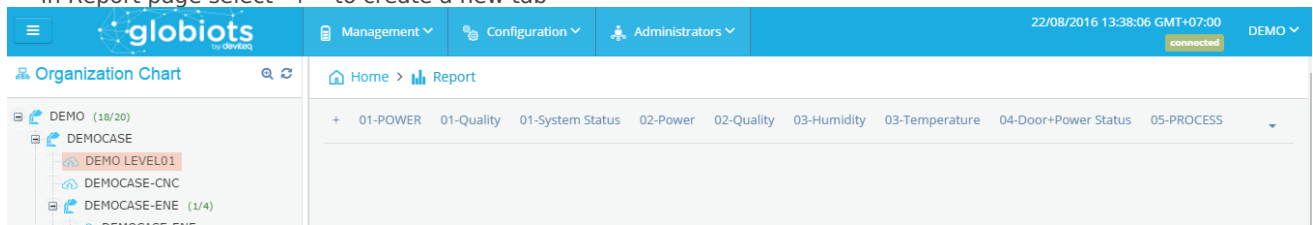
Preview layout with current code before to save change.

HTML Canvas Example	
Show Last Value	Link
Show Realtime Data	Link
Set Realtime Data	Link
Show Historical Trending Data Log	Link
Get Data From API	Link

6.2 Report

6.2.1 Create a new report

- To create a new report:
 - In menu Management, select Report
 - In Report page select “+ ” to create a new tab



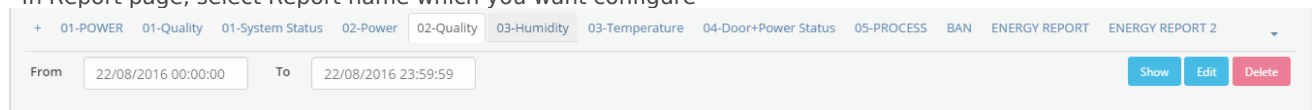
- Report Page will display as follow:

Enter full information

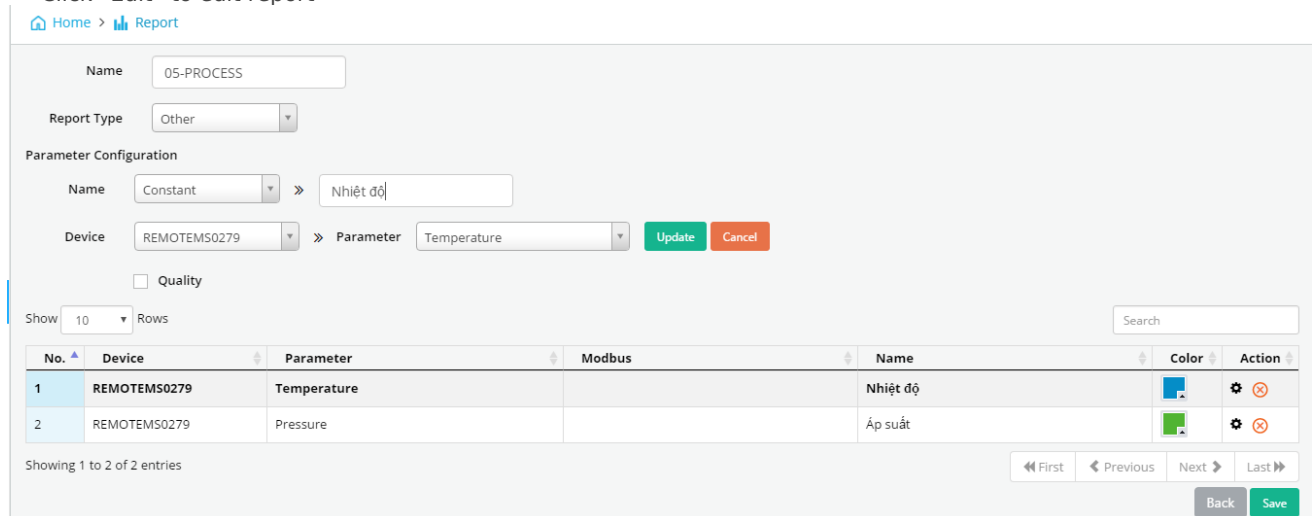
- o Name: Name of Report tab
- o Report Type: EMS (for energy), CNC (for CNC machine), Historical Trending (for parameter trend)
- o Parameter Configuration:
 - ☐ Name: Name of parameter which display in report. Name might input text or name of parameter.
 - ☐ Device: select Device
 - ☐ Parameter: select parameter of device which you want display
 - ☐ Click “Add” to add parameter. A report might have some parameter
- o After complete adding parameter, click “save” to finish



6.2.2 Configure Report

- In Report page, select Report name which you want configure



- Click “Delete” to delete report
- Click “Edit” to edit report



- ☐ To edit available parameter, click  in Action column, edit parameter, click Update
- ☐ To delete parameter, click  in Action
- ☐ To Add new parameter: enter full information and click “Add”

6.2.3 View report

Select Time in “From ... To ...” and click “Show” to view data of parameters on report tab

Click on name of parameter (below report) to temporarily ON/OFF parameter on report

6.2.4 Export report

After click button Show to view report, click  on top right corner of screen, select Export to Excel or Export to pdf or Export to csv

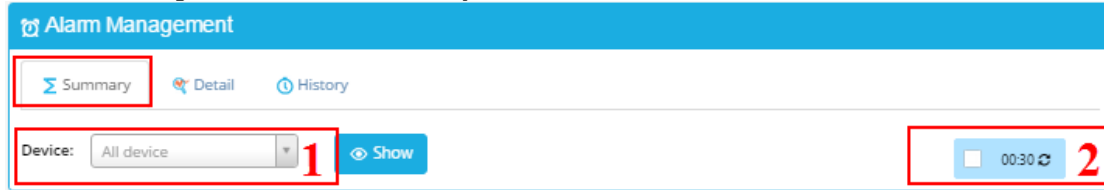
- ☐ Click Export to Excel, select version of Excel (2003 or 2007), click Export. The exported file will be store on your PC
- ☐ Click Export to csv, select version Date Format in csv file, click OK. The exported file will be store on your PC
- ☐ Click Export to pdf, the exported file will be store on your PC

6.3 Alarm Management

In Home page, select menu Management → select sub-menu Alarm Management to display details of alarm of Device.

6.3.1 Alarm Summary

In screen of Alarm Management, click tab Summary: to view active alarm.



(1) Select Device to view Alarm:

- After select Device, click button “Show” to view all active alarm of selected Device.
- After click “Show”, screen of active alarm should appear:

(1) Display alarm of selected Device:

- Time: time when alarm occurs.
- Date: date when alarm occurs.
- Device Name: display name of selected Device.
- Parameter Name: display name of parameter which is alarmed.
- State: display status of alarm (HiHi, Hi, Lo or LoLo)
- Value: display value of parameter when alarm occurs.
- Comment: display comment of alarm

(2) Select number of alarm displayed in one page.

6.3.2 Acknowledge Alarm

- Click **Acknowledge** to confirm selected Alarm. Confirmation screen should appear:

- Enter content of confirmation and then click button “Acknowledge” to save the content.

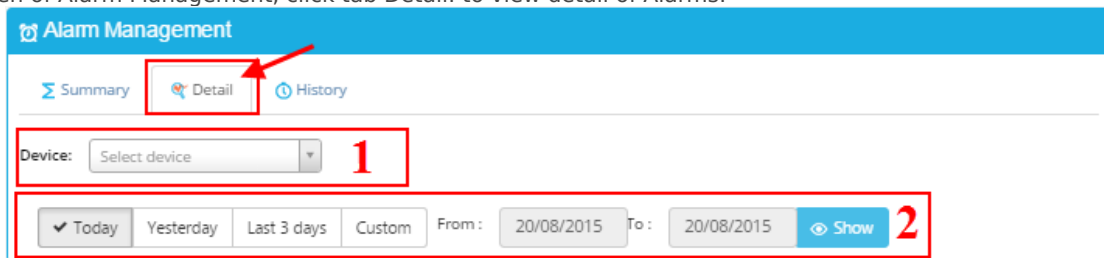
- After alarm confirmation, red text in alarm row of the list should be changed to green text. Content of confirmation should appear in column “Solution” of tab Alarm History.

6.3.3 Acknowledge all Alarm

- Click button to acknowledge all displayed Alarm.

6.3.4 Details of Alarm

- In screen of Alarm Management, click tab Detail: to view detail of Alarms:



(1) Select Device to view Alarm:

(2) Display period of time to view Alarm:

- Custom: to enter start date and end date to view alarm. Maximum period of time is one month.
- After select Device and period of time, click button “Show” to view Alarm:

6.3.5 Alarm History

- In screen of Alarm Management, click tab History: to view all historical alarms

6.3.6 Export Alarms

- In screen of Alarm History, click button **Export** to export Alarms to Excel file. Screen of alarm export should appear:

Export Alarm History

Choose excel version:
Excel 2003

Choose num of items:
50 items

Cancel
Save

- Choose excel version: select Excel version of exported file: Excel 2003, Excel 2007 or Higher
- Choose number of item: select number of alarm to be exported: 50, 100, 200 Alarms
- Click "Save" to export Alarm list.
- Exported Alarm list should display:

6.4 Event Management

- In Home screen, select menu Management → select sub-menu Event Management: to view historical events.

Event Management

History

Device: Select device
1

Today Yesterday Last 3 days Custom
From : 20/08/2015 To : 20/08/2015 Show Export
2

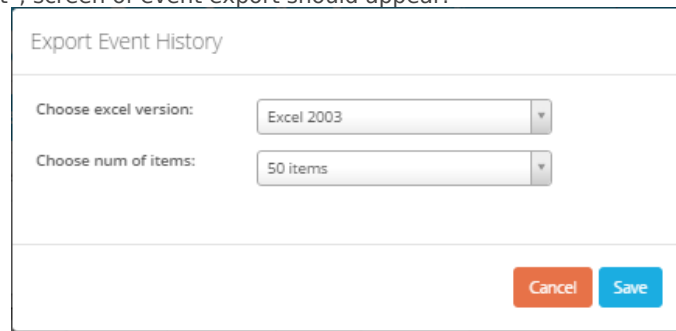
- (1) Select Device to view Event:
- (2) Period of time to view Event:
 - Custom: select start date and end date to view events. Maximum period of time is one month.
 - After select Device and period of time, click button "Show" to view Event:

Event Management										
History										
Device:			BTS-00000219							
Today Yesterday Last 3 days Custom			From :		20/08/2015		To :		20/08/2015	
					Show		Export			
No.	Time	Date	Device Name	Event ID	Priority	Event Name	Status	Parameter Address	Parameter Value	Comment
1	09:54:05:000	20/08/2015	BTS-00000219	6		Power Supply OFF	TRUE	2300	1.4	Power Supply OFF
2	09:53:45:000	20/08/2015	BTS-00000219	8		Connect to CAP10 Fail	TRUE	2062	20	Connect to CAP10 Fail
3	09:53:41:000	20/08/2015	BTS-00000219	6		Power Supply OFF	TRUE	2300	1.4	Power Supply OFF
4	09:53:37:000	20/08/2015	BTS-00000219	5		Power Supply ON	FALSE	2300	1.96	Power Supply ON
5	09:44:45:000	20/08/2015	BTS-00000219	8		Connect to CAP10 Fail	FALSE	2062	0	Connect to CAP10 Fail
6	09:43:25:000	20/08/2015	BTS-00000219	6		Power Supply OFF	FALSE	2300	24.64	Power Supply OFF
7	09:43:09:000	20/08/2015	BTS-00000219	5		Power Supply ON	TRUE	2300	24.696	Power Supply ON
8	09:43:05:000	20/08/2015	BTS-00000219	8		Connect to CAP10 Fail	FALSE	2062	0	Connect to CAP10 Fail
9	09:43:01:000	20/08/2015	BTS-00000219	6		Power Supply OFF	FALSE	2300	24.64	Power Supply OFF
10	09:42:45:000	20/08/2015	BTS-00000219	5		Power Supply ON	TRUE	2300	24.696	Power Supply ON

First Prev 1 2 3 Next Last

10 records per page

- Button “Export”: Click to export event to Excel file.
- After click button “Export”, screen of event export should appear:



- Choose excel version: select Excel version of export file: Excel 2003, Excel 2007 or Higher
 - Choose number of item: select number of Events to export: 50, 100, 200 Events
 - Click button “Save” to export event list.
- File of exported Events should appear:

6.5 Import/Export Raw Data

6.5.1 Import

- In menu Management, select Import/Export Raw Data
- Select Import tab

- Type: Manual or file
 - ☐ Manual: data enter from keyboard
 - ☐ File: data load from excel file. Excel should have suitable format
- Parameter: select Device and Parameter
- TimeZone: select time zone
- Timestamp: select time stamp of data
- Value: value of data
- Add: after enter full information, click “Add” to add value of parameter at specific time into list below

Click Check to show table to know input value and value on database

Click Import data into database to import value of parameter into database. If old data are available on database, user should confirm override old data

6.5.2 Export

- In menu Management, select Import/Export Raw Data
- Select Export tab

- Parameter: select Device and Parameter
- TimeZone: select time zone
- Data format: select Data format for export time
- From ...To: Duration of time to export

Click “Export” to export value of parameter to csv file

6.6 Configure Schedule to Email Report

From menu Management, click sub-menu Schedule for Report, click Add button to add schedule for report

- Name: Name of schedule
- Activated: Tick to active schedule
- Report type: Select type of report. There are 2 types of report available (CNC and EMS). Frequency of sending report depend on report type (daily, weekly, monthly).
- Choose Report: click inside box or click Config to choose report to email
- Send report to group or user: click inside box or click Config to choose group and user who receive email.
- Time to send report is begin time of days which is configured in Account

Note: Email of user must be verified before configuring schedule to email report. Refer 2.1.3 Verify Email for more details

7. Configuration

7.1 Package Configuration

In menu Configuration, select package configuration. The List of Packages displays as follow:

The List Of Packages

Show 10 Rows Add Package

	Name	Limited User	Limited Device
	BACHTUNG	10	20
		5	10
		10	20
	CX TECHNOLOGY	5	5
	DISTRIBUTOR	20	20
	HONG KY	5	10
	HUU TOAN - GENERATOR	20	20

- Click "Add package" to add new Package

Edit Package 'BACHTUNG' - Step 1 of 3

1 BASIC INFORMATION 2 FUNCTION 3 SUBMIT

Name*

Limited User*

Limited Device*

Cancel Continue

- Step 1: Enter basic information and click continue to next step
- Step 2: Select functions for package

In Permission, select appropriate authorities and click continue to next step

- Step 3: View information of configuration and click "save changes" to finish
- Click "Edit" to Edit available Package
- Click "Delete" to Delete Package

7.2 SMS configuration

Configure SMS for sending SMS when Alarm or Event occur.

Click tab Configuration SMS Configuration Click "Add SMS Profile" button to configure

SMS Profile Configuration

Management Monitoring **Configuration** Administrators 16:22:02 GMT+07:00 CHIENOWA

Home > SMS Profile Configuration

Memmap Configuration

Historical Trending Configuration

SMS Configuration

Add SMS Profile

Show 10 Rows Search

Name	Type	Priorities	Status
No data available in table			

Showing 0 to 0 of 0 entries

First Previous Next Last

Please do 3 steps follow guide:

1 BASIC INFORMATION

2 ASSIGN USER

3 SUBMIT

Name*
Type*
Priorities*
Status*

Cancel

Continue

+ Add SMS Profile - Step 2 of 3

1 ✓ BASIC INFORMATION

2 ASSIGN USER

3 SUBMIT

Show Rows

	Full Name	User Name	Contact Number
No data available in table			

Showing 0 to 0 of 0 entries

First
Previous
Next
Last

Cancel

Back

Continue

Note: Contact number must be verified before implement SMS configuration. Refer 3.4 Verify Contact Number for more details

8. Administrators

8.1 Account Management

- Account might have sub-account to manage and assign authorities.
- In Home screen, select menu Administrators → select sub-menu Account Management
- In screen of account list, click button “Add account” to create new account.

+ Add Account - Step 1 of 4

1 BASIC INFORMATION 2 ADMIN INFORMATION 3 PACKAGE INFORMATION 4 SUBMIT

Name* Account Hồ Chí Minh

Address* 11 Đường 2G, Phường An Lạc, Quận Bình Tân

Country Việt Nam

Province TP. Hồ Chí Minh

Postal Code* 0802

Fax Number Please provide fax number

Email Address* hochiminh@yahoo.com

Time Zone* Asia/Ho_Chi_Minh

Date Format* dd/MM/yyyy

Time Format* HH:mm:ss

First Day Of Week* Sunday

Begin Time Of Day 00:00

Keep alive time* 5 minutes

Realtime Refresh Time* 1 second

Status* ACTIVED

1

Cancel Continue

Enter information account into panel (1).

Email: enter email address. Email is unique.

Click button "Continue" to go to step 2.

- Field with mark * must be filled

- In email address, uppercase and lowercase are the same.

- Select right Time Zone for user.

- After click button "Continue", screen of step 2 should appear:

+ Add Account - Step 2 of 4

1 ✓ BASIC INFORMATION 2 ADMIN INFORMATION 3 PACKAGE INFORMATION 4 SUBMIT

Full Name* Admin Hồ Chí minh

Gender Male

Username* admin_hcm

Password* abc@123

Date Of Birth* 15/04/1983

Contact Number 0123654784

Email Address* admin@hochiminh.com

Language English

1

Cancel Back Continue

Enter information of admin user into panel (1):

- Username: Enter username. Username is unique.

- Email: Enter email address. Email is unique.
 - Contact Number: Enter phone number. Phone number is unique.
 - Click button “Continue” to go to step 3.
- Screen of step 3 should appear:

- (1) Select package for account.
Click button “Continue” to go to step 4.
- Screen of step 4 should appear:

- (1) Display basic information of account in step 1.
(2) Display information of admin user in step 2.
(3) Display assigned package information in step 3.
Click button “Save” to save configuration.
After click button “Save”, confirmation screen should appear:

Click “OK” to finish.

- After successfully create new account, an admin user of account is also created.
- Number of used user of account increases by one for admin user.
- Information of admin user should be in user list.

8.2 User Management

User is created by following steps:

- In Home screen, click menu Administrators → select sub-menu User Management
- In screen of user list, click button “Add user” to add new user.

- Enter basic information into panel (1).
• Contact Number: Enter contact number. The number is unique.
• Click button “Continue” to go to step 2.
- After click button “Continue”, screen of step 2 should appear:

- Enter information for user to sign-in into panel (1):
• Email: enter email address. Email is unique.
• Username: enter username for sign in. Username is unique. Username has at least 6 characters.
• Password: default password is “abc@123”. User must change password when user sign in in the first time.
• Click button “Continue” to go to step 3.
- Enter full information for user.
- Uppercase and lowercase of email and username are the same.
Example: username “USERNAME1” is the same as username “username1”.
- Screen of step 3 should appear:

1

2

3

✓ BASIC INFORMATION

✓ AUTHENTICATION

SUBMIT

BASIC INFORMATION

Full Name:

Hồng Vân

Gender:

Female

Date Of Birth:

08/11/1987

Contact Number:

0932001025

1

AUTHENTICATION

Email:

hongvam.pham@daviteq.com

User Name:

hongvan

Status:

☒

2

Cancel

Back

Save

- (1) Display basic information of user in step 1.
 - (2) Display information for sign in in step 2.
- Click button "Save" to save information.
After click button "Save", confirmation screen should appear:

Do you really want to add user 'Hong Vân'?

Cancel

OK

Click button "OK" to finish.

- If number of unused user of account > 0, user will be created successfully. Number of used user should increase by 1.
 - If number of unused user of account is equal to 0, user will not be created successfully.
- Screen of notification should appear when number of unused user of account is equal to 0:

8.3 Group Management

- Group is used to assign authorities to users.
- In Home screen, select menu Administrators → select sub-menu Group Management
- In screen of group list, click button "Add Group" to create new group of account.

1

2

3

4

5

6

7

BASIC INFORMATION

FUNCTION

NODE

USER

LIVEVIEW

DASHBOARD

SUBMIT

BASIC INFORMATION

Group Name*

Group 1

Description

Quản lý Group 1

1

Cancel

Continue

- Enter basic information of group into panel (1).
- Group Name: Enter group name. Group name is unique.
 - Click button "Continue" to go to step 2.

- After click button “Continue”, screen of step 2 should appear:

Function	Permission
Package Management	<input type="text"/>
Group Management	<input type="text"/>
Report	<input type="text"/>
Node Management	<input type="text"/>
Schedule Report	<input type="text"/>
Action Log	<input type="text"/>
Import/Export Raw Data	<input type="text"/>
Account Management	<input type="text"/>
Parameter Management	<input type="text"/>
User Management	<input type="text"/>
Dashboard Management	<input type="text"/>
Device Management	<input type="text"/>
Alarm Management	<input type="text"/>
Event Management	<input type="text"/>
Memmap Management	<input type="text"/>
SMS Profile Management	<input type="text"/>

Cancel Back Continue

- Select assigned functions for group in area
 - Only display assigned functions of account.
 - Select one function to assign, then click into area (1) to display authorities of selected function. Click authority to add into group.
 - Click mark “x” (2) to remove authority.
 - Click button “Continue” to go to step 3.
- Screen of step 3 should appear:

+ Add Group - Step 3 of 7

✓ 1 BASIC INFORMATION
2 ✓ FUNCTION
3 NODE
4 USER
5 LIVEVIEW
6 DASHBOARD
7 SUBMIT

DAVITEQ

Node Test 1

Group 1

Group 2

Node Test 3

Node new

Node new 1

1

Cancel Back Continue

- (1) Display available nodes of account. Tick nodes to assign to group.
 - Click button “Continue” to go to step 4.
- Screen of step 4 should appear:

+ Add Group - Step 4 of 7

1 BASIC INFORMATION 2 FUNCTION 3 NODE 4 **USER** 5 LIVEVIEW 6 DASHBOARD 7 SUBMIT

Users Of Group

Show 10 Rows Search

Username	Fullname	Actions
hongvan.pham	Hồng Văn	Remove 2

Showing 1 to 1 of 1 entries

List Of Users

Show 10 Rows Search

Actions	Username	Fullname
Assign	vanchung	Văn Chung 1

Showing 1 to 1 of 1 entries

Cancel Back Continue

- (1) Display list of users. The users have not been assigned to the group.
 - (2) Display list of users which has already been assigned to the group.
 - Button "Assign": click to assign selected user to group. After click "Assign" button, selected user should be in the list in panel (2).
 - Button "Remove": remove user from group. After click button "Remove", selected user should be in the list in panel (1).
 - Click button "Continue" to go to step 5.
- Screen of step 5 should appear:

+ Add Group - Step 6 of 7

1 BASIC INFORMATION 2 FUNCTION 3 NODE 4 USER 5 LIVEVIEW 6 **DASHBOARD** 7 SUBMIT

Dashboards Of Group

Show 10 Rows Search

Name	Actions
DB1 VAN	Remove 2

Showing 1 to 1 of 1 entries

List Of Dashboards

Show 10 Rows Search

Actions	Name
Assign	SUPER ADMIN 1

Showing 1 to 1 of 1 entries

Cancel Back Continue

- (1) Display list of Dashboard of signing in group. The Dashboard has not been assigned to group.
 - (2) Display list of Dashboard of signing in group. The Dashboard has already been assigned to group.
 - Button "Assign": click to assign dashboard to group. Assigned dashboard should be in panel (2).
 - Button "Remove": remove dashboard out of group. Removed dashboard should appear in panel (1).
 - Click button "Continue" to go to step 6.
- Screen of step 6 should appear to view Summary information of group from step 1 to step 8.
- Click button "Save" to save information.
 - After click button "Save", confirmation screen should appear:

- Click button "OK" to finish.

9. Support contacts

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