



NOVUS CLOUD

QuickGuide V1.0x

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NOVUS CLOUD PLATAFORM

NOVUS CLOUD is a dedicated solution platform for Internet of Things that extends the data presentation horizons. Applied with NOVUS products, this platform can receive data, store, analyse and presents online measurements of temperature, humidity, pressure, geographic location or any other amount of interest. Internet access to the data of physical measurements can bring benefits mainly to the following sectors: industrial, logistics, health, construction, energy, sanitation and agriculture.

A Modbus FieldLogger or an AirGate-3G connected to any sensor or device that measures physical quantities can send these measurements to the NOVUS Cloud. In temperature logging applications, the TagTemp-NFC through Android LogChart-NFC application is also able to send their records to the platform.

The platform is secure, scalable and offers an environment for rapid application development, even for people with no programming experience.

The cloud applications are fully customizable, and you can create multiple screens with widgets to display data, configure alarms and events for business rules, send notifications by email and configure scripts to process the data.

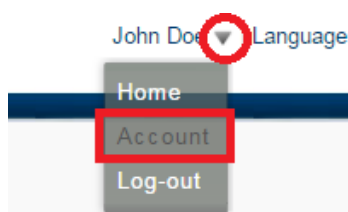
ACCESS TO THE NOVUS CLOUD PLATFORM

You can access the portal through <https://iot.novusautomation.com> address. To access the account will need to enter access credentials consisting of user name and password provided at the time of application for the account. If you have trouble accessing or not has an account on the platform, please contact us by sending an email to iot@novusautomation.com.

ACCOUNT PROPERTIES

By registering an account at the NOVUS CLOUD platform, users can access the portal to edit all information relating to it, such as personal or functional information about the equipment and how access the data.

After login with your username and password to access the account properties, it is necessary to display the top application menu and click in Account, as shown below.



USER PROFILE PROPERTIES

The primary user of the application must complete a register of information, where some of these are mandatory or optional, in the User Profile section. As shown in the image below, you can change the full name, time zone, country, city, language and other profile information. After entering the data, you must click on the UPDATE button to save the information.

User Profile

Full Name: * John Doe

Allow Search: ? No

Timezone: * (GMT-04:00) Brazil

Country: Brazil

City, State/Province: Porto Alegre

Language: English

Phone Number:

Mobile Number:

Organization:

Website:

Email: * myemail@gmail.com

Current Password: *

Current password required to set new email

☐ Automatically execute Javascript in custom widgets.

Warning! Javascript displayed in widgets may not be created by Exosite. Exosite will not be held liable for any security issues that may result from viewing user created custom widgets. [Learn more about the risks here.](#)

Last Login: Jun 08, 2015 @ 16:27 (America/Campo_Grande)

UPDATE

PASSWORD RECOVERY

If you have forgotten your password, you can recover it through the option “forgot password?” in the website (<https://iot.novusautomation.com>) or directly using the link <https://iot.novusautomation.com/reset>. Enter the main email account and click the SUBMIT button. You will receive the instructions for password recovery on this email address.

You can add an additional layer of protection in password recovery. In this case, you will must answer correctly the security question at the time of recovery. Access the user profile properties and insert the question and the corresponding answer on Enhanced Security Account, then clicking on UPDATE.

Enhanced Account Security

☒ Use security question for password reset requests

Password Reset

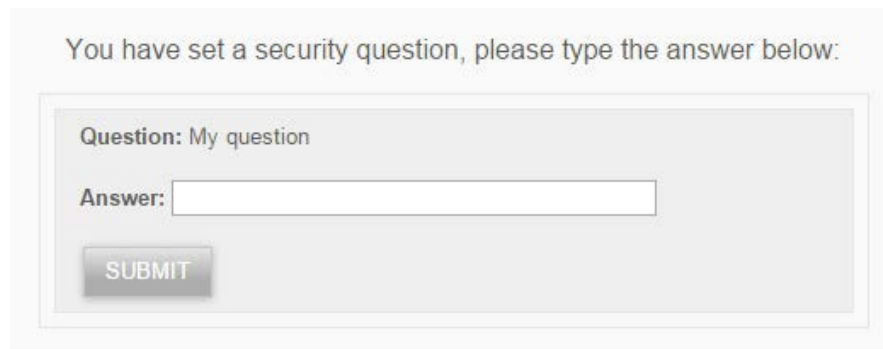
Question: * My question

Answer: * My answer

Current Password: *

UPDATE

If you define a security question for password recovery, the link send via email with the instructions for password recovery will direct to the page where you need to answer the secret question, as shown in the image below. After you enter the answer, click on SUBMIT.



You have set a security question, please type the answer below:

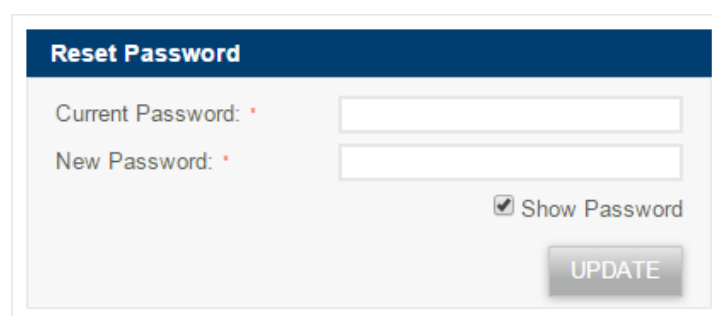
Question: My question

Answer:

If the answer entered is correct, the user must enter the new password, confirm it and click in SUBMIT.

RESET PASSWORD

To change the password is necessary to access the Reset Password section, where you must enter the current password and new password. After entering the data, click UPDATE.



Reset Password

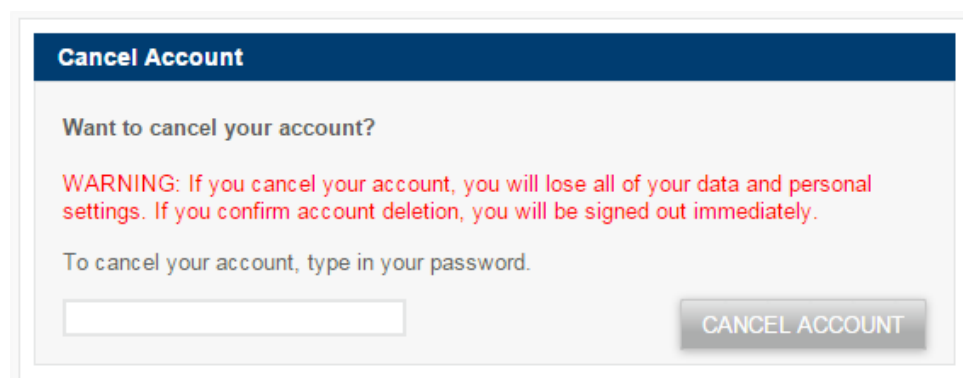
Current Password: *

New Password: *

☒ Show Password

CANCEL ACCOUNT

Although you may cancel your account directly on the platform, we do not recommend to be done this way. Contact us by email at iot@novusautomation.com informing the principal email address to carry out the cancellation.



Cancel Account

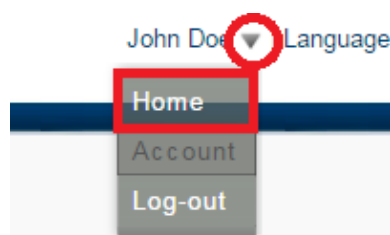
Want to cancel your account?

WARNING: If you cancel your account, you will lose all of your data and personal settings. If you confirm account deletion, you will be signed out immediately.

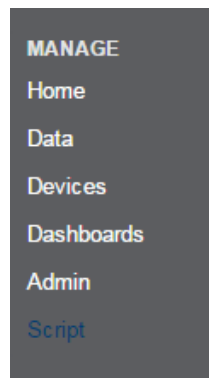
To cancel your account, type in your password.

HOMEPAGE OF THE ACCOUNT

To access the homepage is necessary to access the main menu of the application and click Home, highlighted in the image below.



On the homepage of your account, you can perform all application settings. The left menu on the homepage shows the items for the setting divided in categories composed of HOME, Data, Devices, Dashboards, Admin and Script, as shown in the next image.



HOME

When you enter the application that is the first page displayed. By default, this page has the NOVUS logo and some information about documentation, but you can change this page to another created within the application.

See more information about how to change this page in the section *ADMIN-> OPENING DASHBOARD*

DATA

Below each corresponding equipment will appear all the application data. You can add new data variables by clicking (+ Add Data) in the top right corner of the screen.

Data + Add Data				
Name ▲	Alias	Last Value	Unit	Last Reported Time
Portal: My Portal				
Device: My Device				
GPS	gps	-3000.859_-5112.60714		15:43:04 May 26, 15 America/Campo_Grande
Temperature	temp	1.11111111111111E+19		13:56:56 May 26, 15 America/Campo_Grande

In the picture above, you can see an example with the device named My Device, their Temperature and GPS data variables and the last values received.

To view the data of the variables on this screen does not need any additional configuration and does not require creating any screen. This is the most primitive way to view the data. By clicking on any variable, you can view their properties.

ADD A DATA VARIABLE

We previously registered all NOVUS devices on the platform, so it is not necessary to add variables to receive information from them. However, you can create mathematical variables to store the result of basic operations on the equipment variables, such as addition, subtraction, division, multiplication and modulus.

Click the Data item in the left side menu. After loading the new window, click in (+ Add Data) in the top right corner of the screen to start adding a new variable. Check the box From Existing Data, select the Device and click CONTINUE.

Data Setup

STEP: **ORIGIN** CONFIGURATION CONFIRM

What's a data source "From a Device"?
Creating a data source "From a Device" allows you to capture and record data that a device sends to the One Platform.

How about "From Existing Data"?
"From Existing Data" allows you to create a new data source by combining two or more data sources together.

And "From Shared Data"?
"From Shared Data" allows you to add a data source that someone else owns, but has shared with you. Must be activated by an activation code you receive by email.

☐ From a Device My Device ▼

☒ From Existing Data My Device ▼

☐ From Shared Data

☐ From Public Source

QUIT CONTINUE

The settings for the new variable are composed of their respective name (Data Source Name); data type (Data Source Format): integer, float or string unit (Unit) and; an alias (enter the variable name in this field with no blanks), plus the base variable and their respective calculations.

Data Setup

STEP: ORIGIN CONFIGURATION CONFIRM

When will this data source update?
A combination data source will update ONLY when the first data source in the list receives a new value.

Data Source Name:

Data Source Format:

Unit:

Alias:

Data Source	Calculation	Constant
<input type="text" value="Temperature (My Device)"/>	<input type="text" value="Divide"/>	<input type="text" value="10"/>
	<input type="text" value="NA"/>	<input type="text"/>

Combine:

After entering the information, click SUBMIT. If the Add Data function was successful, the new variable will appear in the list of equipment variables, as shown in the image below.

Data + Add Data				
Name ▲	Alias	Last Value	Unit	Last Reported Time
Portal: My Portal				
Device: My Device				
GPS	gps	-3000.859_-5112.60714		15:43:04 May 26, 15 America/Campo_Grande
New temp	newtemp	none	°F	
Temperature	temp	1.1111111111111E+19		13:56:56 May 26, 15 America/Campo_Grande

DATA INFORMATION

Click the Data item on the left menu. After loading the new window, click on a variable in the list to access their properties.

Data + Add Data				
Name ▲	Alias	Last Value	Unit	Last Reported Time
Portal: My Portal				
Device: My Device				
GPS	gps	-3000.859_-5112.60714		15:43:04 May 26, 15 America/Campo_Grande
Temperature	temp	1.1111111111111E+19		13:56:56 May 26, 15 America/Campo_Grande

The properties window allows you to modify some parameters and access a graph and a table with the last values received.

Data Information

Data Update

Name:

Current Value: 12

Units:

Format: float

Storage: 47.29 KB

Source Info

Device: My Device

Alias:

RID:

Calculation:

Retention

Duration: ☒ infinity ☐ custom hours

Count: ☒ ☐ data points

Share as Public Data

Make public: ☐

IMPORTANT: Data sources that are made public can be accessed by any user. By checking this box, you will be making the information displayed in this data source publicly accessible.

UPDATE

Data Graph

Write Data

Data value: UPDATE

Data Log (last 200 records)

Time	Value
11:35:04 Jun 9, 15	12
America/Campo_Grande	
11:35:01 Jun 9, 15	44
America/Campo_Grande	
11:34:46 Jun 9, 15	2
America/Campo_Grande	

The user can change the name (Name), unit (Units), add a calculation (Calculation) with the basic math operations and define other settings. To apply the changes you must click UPDATE.

NOTE: Do not modify the Alias of the variable; otherwise, it will not receive data from the field device.

The variable data should be available for a period of two years. If you need to increase this duration, as for details at iot@novusautomation.com.

WRITE DATA

You can write a value to a variable. To do this, open the properties of the variable in Write Data section, type a value and click UPDATE.

Write Data

Data value: UPDATE

The new value should appear in the data list on the Data Log (last 200 Records) section, as shown below.

Data Log (last 200 records)		View Detail	Export Data
Time	Value		
16:46:34 Jun 10, 15	42		
America/Campo_Grande			

EXPORTING DATA

You can export all the data for a variable into a CSV file. The export function can be accessed on the property page of the variable in the Data Log (last 200 records) section. Click in Export Data.

Data Log (last 200 records) View Detail Export Data	
Time	Value
16:46:34 Jun 10, 15	42
America/Campo_Grande	

The export tool can export more than one variable at a time, so the user must select the desired variables, the time interval or the amount of the last values registered. After parameterization, click on CONTINUE.

Data Source Export



STEP: DATA CONFIRM

Select which data sources to export: Select: [All](#), [None](#)

Data Source Name	Selected
New temp	<input type="checkbox"/>
GPS	<input type="checkbox"/>
Temperature	<input checked="" type="checkbox"/>

Select the file type to export: csv ▾

☒ Select the time range to export.

From: 2015-05-14  Until: 2015-06-10 

☐ Select the data points to export.

QUIT
CONTINUE

To download the CSV file with the exported data, click on this link and save the file on a folder of your computer, as shown in the image below.

Data Source Export

STEP: DATA CONFIRM

What's next?
It is your data - use it however you like - open it with your favorite spreadsheet program, import it into other analysis software or just save it for a rainy day.

Data successfully exported.

Please click [this link](#) to save the exported data to your computer.

QUIT

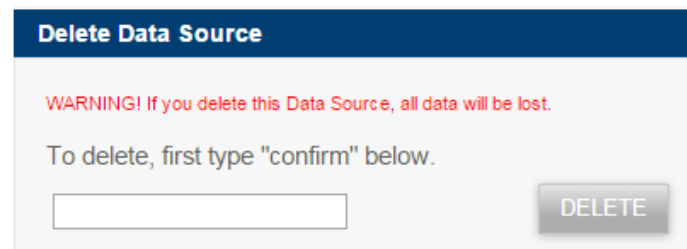
Data Sources: Temperature

Time Range: From 2015-05-14 Until 2015-06-10

Format: Comma delimited .csv (rfc4180)

DELETING A VARIABLE

To delete a variable you can access to their properties in the Delete Data Source section, type the word confirm and click on DELETE.



Delete Data Source

WARNING! If you delete this Data Source, all data will be lost.

To delete, first type "confirm" below.

NOTE: Delete a variable implies losing all data. Export your data before performing this action in case you want to keep them for further analysis.

DEVICES

Here you can see all devices for the application. It is possible to add more devices by clicking (+ Add Device) at the top right corner of the window.

Devices + Add Device				
Name	Alias	Type	Unique ID	Location
My Device	14176583	TagTemp-NFC	14176583	Brazil

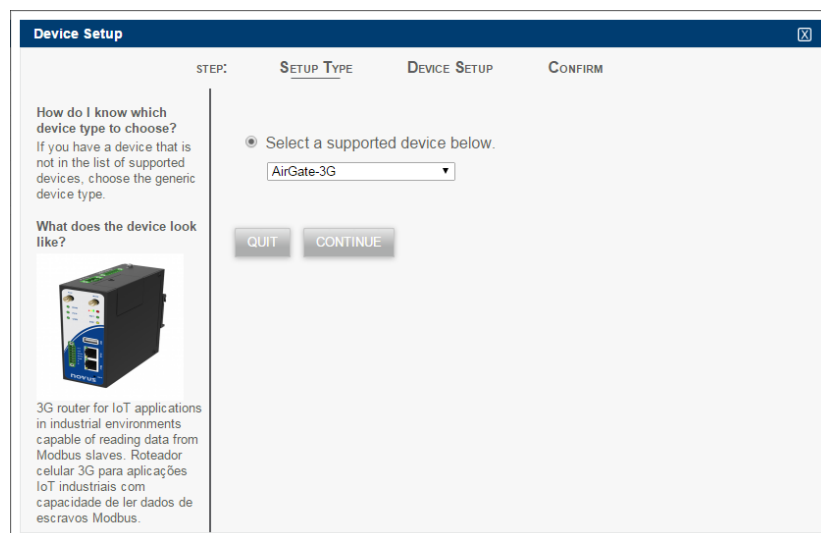
In the image above you can see an example of this screen, where appears a device named as My Device and some respective information.

ADDING A DEVICE

Click on the Device item on the left menu. After loading the new window, click in (+ Add Device) at the top right corner of the screen to start adding a new equipment.

Devices + Add Device				
Name	Alias	Type	Unique ID	Location
My Device	14176583	TagTemp-NFC	14176583	Brazil

The next step is to select the device type and click CONTINUE.




Device Setup

STEP: SETUP TYPE DEVICE SETUP CONFIRM

How do I know which device type to choose?
If you have a device that is not in the list of supported devices, choose the generic device type.

What does the device look like?



3G router for IoT applications in industrial environments capable of reading data from Modbus slaves. Roteador celular 3G para aplicações IoT industriais com capacidade de ler dados de escravos Modbus.

☒ Select a supported device below.

AirGate-3G

After choosing the equipment, it will be necessary to introduce two mandatory information: serial number and an identifier name. The serial number is numeric and is located on the label on the equipment. After entering the required information, click CONTINUE.

Device Setup

STEP:

SETUP TYPE

DEVICE SETUP

CONFIRM

Where can I find my Serial Number ?
Your Serial Number can be found in the position from the image below.

AirGate-3G

- Enter device Serial Number
- Please enter a device name
- Please enter a device location (optional - can be a string or GPS decimal degrees)

QUITCONTINUE

Register the equipment is the first step to make so that it can send data to the cloud. When you enable the service on the device and connect it to the Internet, you will complete the process. Please, follow the instructions in the equipment manual.

After activation, automatically it creates a simple dashboard on the platform to show some parameters for diagnostic purposes. You cannot edit this dashboard.

NOTE: Upon reaching the limit of devices of your account, you will cannot add more devices and the platform will display a warning message. To increase this limit, please, contact us at iot@novusautomation.com.

You have used all of your Portal's allocated Devices.

To add more Devices, you can either:

- Delete an existing Device first
- Add more Devices to your Portal Limits (use the [Billing Page](#), or request from your [Domain Administrator](#))

QUIT

STEPS TO ADD A NEW DEVICE IN NOVUS CLOUD

- Purchase of any NOVUS device with **NOVUS CLOUD** connection
- Hire an account on the service **NOVUS CLOUD**
- Configure the device so you can connect to the **NOVUS CLOUD** as indicated in the manual
- Access **NOVUS CLOUD** and add the new device as described in this manual
- Connect the device to the Internet
- Ready! If everything has gone well, you can see the device status indicated as ACTIVATED on the device properties page.
- You can see the data received by **NOVUS CLOUD** accessing the Data item on the menu or in the default Dashboard created automatically, as indicated in this manual
- The basic application in the cloud is ready!

DEVICE PROPERTIES

Click on the Device item on the left menu. After loading the new window, click on a device in the list to access their properties.

Devices + Add Device				
Name	Alias	Type	Unique ID	Location
My Device	14176583	TagTemp-NFC	14176583	Brazil

The Device Information window allows you to modify some parameters and access the list of variables with the last values received.

Device Information

Device Update

Name:

Alias:

Type: TagTemp-NFC

Serial Number: 14176583

Status: Activated

Timezone: (GMT-04:00) Brazil

Location: Brazil

Storage: 47.4 KB

Active Time: 1 minutes

CIK: f86e811b67a5fa0a73e769f4c8f6649ef979a755

Device Specific Limits (optional)

	Inherit	Custom	
Data:	<input checked="" type="radio"/>	<input type="radio"/>	(available: 97)
Events:	<input checked="" type="radio"/>	<input type="radio"/>	(available: 100)
Daily Emails:	<input checked="" type="radio"/>	<input type="radio"/>	
Daily SMS:	<input checked="" type="radio"/>	<input type="radio"/>	

UPDATE

Data List

+ Add Data

Name	Alias	Last Value
GPS	gps	-3000.859_-5112.60714
New temp	newtemp	1.2
Temperature	temp	12

The user can change the Name, Time zone, Location, Active Time (maximum time to consider the device online) and add new variables. To apply the changes you must click UPDATE.

The Status field is important because through it is possible to know if the device is active, inactive or expired, according to the description below:

Status Activated: The device is active to the cloud and enabled for sending data.

Status Not-Activated: Device stated in the cloud, but not activated.

Status Expired: It pass more than 24 hours since the device statement without logging for activation. It will be necessary to Re-Enable the device to activate it.

DELETING A DEVICE

To delete a device, access to their properties and on the Delete Device section, type the word confirm and click DELETE.

Delete Device

WARNING! If you delete this device, all data will be lost.

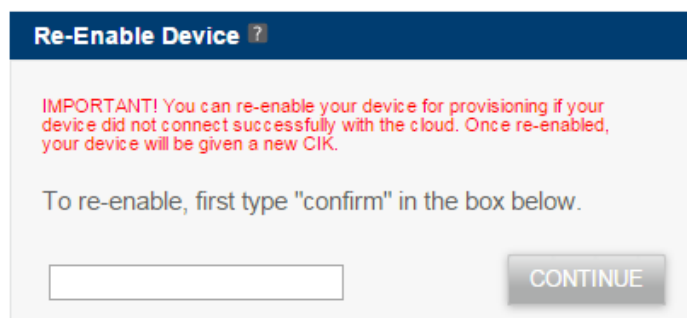
IMPORTANT! Once deleted, another user could activate this device

To delete, first type "confirm" below.

DELETE

RE-ENABLING A EXPIRED DEVICE

If the device is not ask for activation within 24 hours after its statement on the platform, it will expire. Therefore, it will be necessary to renew its registration in the Re-Enable Device section in the computer properties. Enter the word confirm and click CONTINUE to renew for more 24 hours.



Re-Enable Device ?

IMPORTANT! You can re-enable your device for provisioning if your device did not connect successfully with the cloud. Once re-enabled, your device will be given a new CIK.

To re-enable, first type "confirm" in the box below.

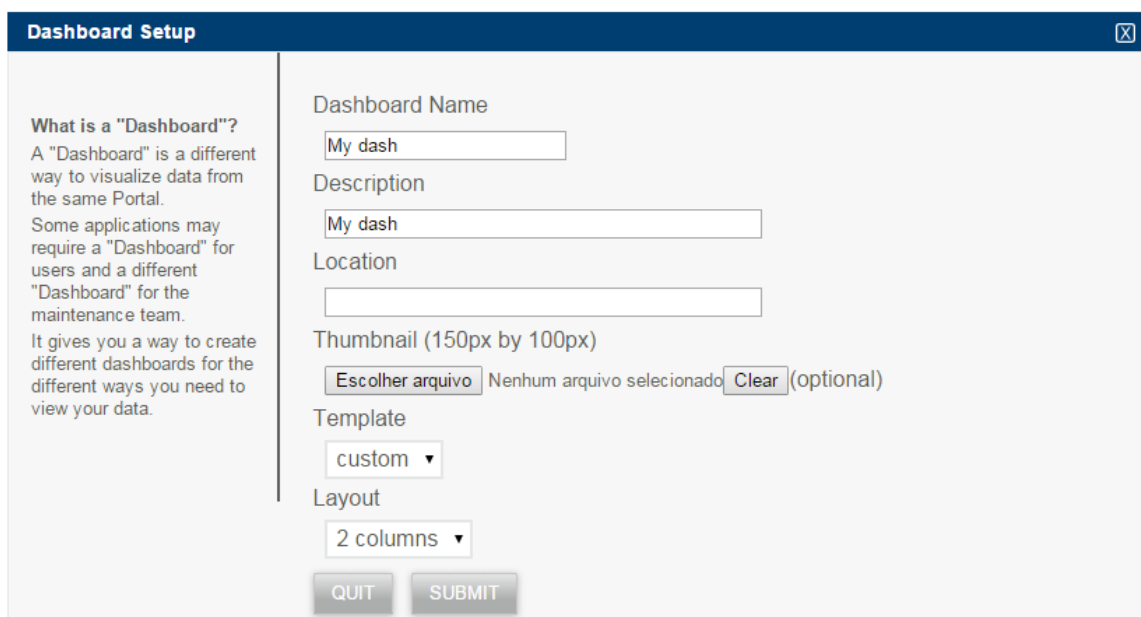
CONTINUE

DASHBOARDS

The dashboards are the screens of the application, where you will design all your graphics representations. These work as a container where the user can create widgets, that are objects used to display the variables of the equipment or any other information.

ADD A DASHBOARD

Click the Dashboards item on the left menu. After loading the new screen, click (+ Add Dashboard) on the top right corner of the screen to start adding a new dashboard. Set a name (Dashboard Name), a Description and determine whether the layout will have two (2 columns) or three (3 columns) columns. Then click SUBMIT.



Dashboard Setup

What is a "Dashboard"?
A "Dashboard" is a different way to visualize data from the same Portal.
Some applications may require a "Dashboard" for users and a different "Dashboard" for the maintenance team.
It gives you a way to create different dashboards for the different ways you need to view your data.

Dashboard Name

Description

Location

Thumbnail (150px by 100px)
 Nenhum arquivo selecionado (optional)

Template

Layout

The dashboard created will be empty and you need to add widgets to display information. After its creation, click the area indicated on the next image to open the dashboard and start editing.




Your Dashboards ?						Restore Default Dashboard
Select	Thumbnail	Name	Public	Description	URL	
<input type="checkbox"/>		My dash	No	My dash	https://iot.novusautomation.com/views/1874061916/1967997182	<input type="button" value="CONFIGURE"/>

Although it seems natural when click on the CONFIGURE button, you will be directed to the properties of the dashboard, determined at the time of its creation.

NOTE: Upon reaching the limit of dashboards of your account, you will cannot add more dashboards. To increase this limit, please, contact us at iot@novusautomation.com.

DASHBOARD PROPERTIES

Click the Dashboards item on the left menu. After loading the new window, click one of the dashboards of the list to access their properties.

Your Dashboards 						Restore Default Dashboard
Select	Thumbnail	Name	Public	Description	URL	
<input type="checkbox"/>		My dash	No	My dash	https://iot.novusautomation.com/views/1874061916/1967997182	CONFIGURE
<input type="checkbox"/>		My 2nd Dash	No	my dash	https://iot.novusautomation.com/views/1874061916/2107156545	CONFIGURE

The properties window allows you to modify the following parameters:


Dashboard Update

Name:

Template:

Description:

Location:

View 

Thumbnail: (150px by 100px) Nenhum arquivo selecionado

URL: <https://iot.novusautomation.com/views/1874061916/1967997182>

Home: ☐ Use as Portal Home Page

Navbar: ☐ Hide left side navigation bar

Layout:

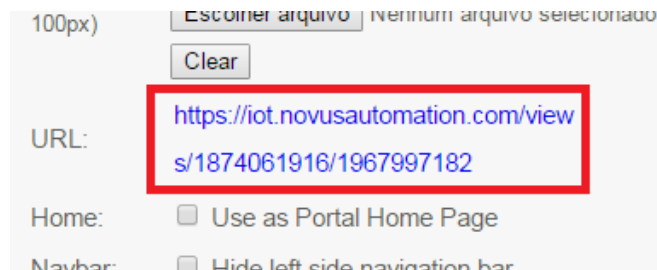
Share as Public Dashboard

Make public: ☒

IMPORTANT: Dashboards that are made public can be viewed by anyone. By checking this box, you will be making the information displayed in this Dashboard publicly accessible.

- Name
- Description
- Location
- Use o Portal Home Page: Makes this dashboard as your default homepage
- Hide left side navigation bar: Hides the left side menu and the buttons: ADD WIDGET and CONFIGURE.
- Layout: Option to select arrangement in two or three columns

- Make public: the dashboard becomes publicly accessible through the Internet. The access link is the URL field, as shown in the next image.



100px) Escoger archivo Verificar archivo seleccionado

Clear

URL: <https://iot.novusautomation.com/views/1874061916/1967997182>

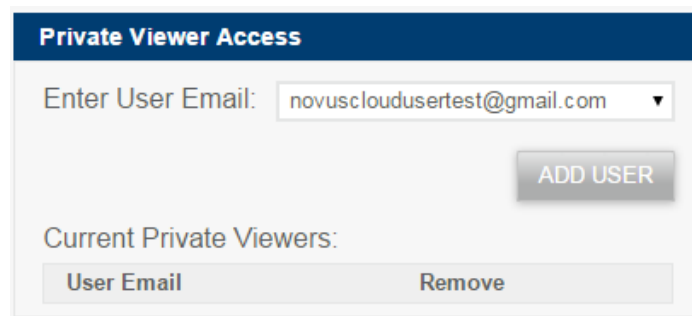
Home: ☐ Use as Portal Home Page

Navbar: ☐ Hide left side navigation bar

To apply the changes you must click UPDATE.

ADD A PRIVATE VIEWER USER

You can invite one or more users as private viewers of a dashboard. After adding the user in the Admin session, in the Private Viewer Access section on the properties of a dashboard, select it and click ADD USER.



Private Viewer Access

Enter User Email:

ADD USER

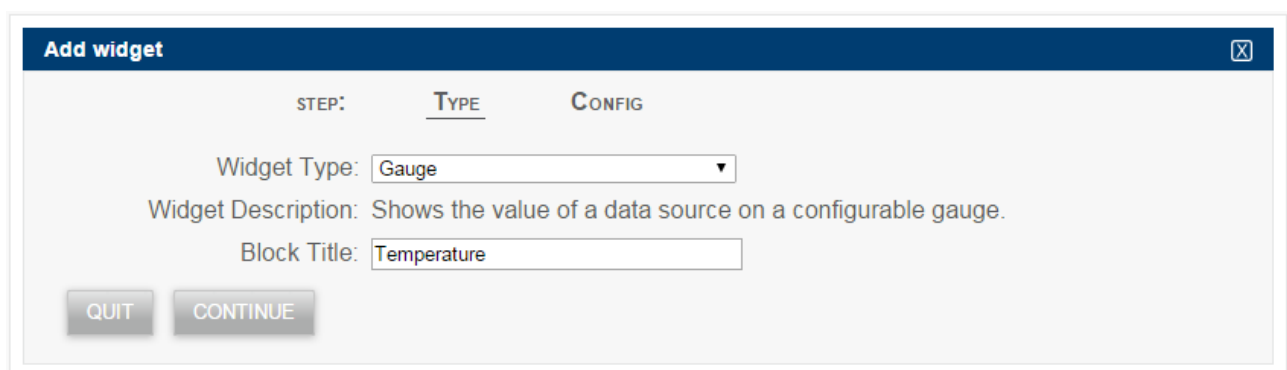
Current Private Viewers:

User Email	Remove
------------	--------

ADD WIDGETS TO A DASHBOARD

Widgets are objects used to display information to the user. This information may include variables of a device, images, maps, animated components, interactive components, among others. The platform has a set of standard widgets that require no programming, so you need just configuring it. There is also the possibility to create custom widgets, where the user can use multiple templates of widgets or write their own using javascript.

Click the Dashboards item on the left menu. After loading the new screen, click the ADD WIDGET button to start adding widgets. The next step is to select the type (Widget Type) and define a title. Then you must click on CONTINUE.



Add widget

STEP: TYPE CONFIG

Widget Type:

Widget Description: Shows the value of a data source on a configurable gauge.

Block Title:

QUIT CONTINUE

In the above example, it was selected widget called Gauge. The next step is to configure the widget to display information.

Add widget

STEP:

TYPE

CONFIG

Block Title: Temperature

Widget Type: Gauge

Min Level: -40

Max Level: 110

Low Level: 30

Color: #41C4DC

Mid Level Color: #FFFFFF

High Level: 90

Color: #A91E27

Default Data Source: Temperature

Set Caller: --NONE--

Refresh Rate: 10 Seconds (0 seconds = no refresh)

QUIT

SUBMIT

In the specific case of this widget, you can configure the following parameters:

- Min Level: Minimum limit of the object
- Max Level: Maximum limit of the object
- Low Level: Lower level of the object
- High Level: Higher level of the object
- Default Data Source: Variable of a device whose value will be displayed
- Set Caller: Advanced parameter. Some widgets can call other (have the function of caller), while others may be called (for this, you must set parameter set caller). The purpose is the exchange of messages between widgets.
- Refresh Rate: Individual refresh rate of the object, in seconds. This is not the data transfer rate from the device!

After configure the widget, it will appear as follows on the dashboard:

MANAGE

Home

Data

Devices

Dashboards

Admin

Script

My Portal

PORTAL


My 2nd Dash

DASHBOARD

Temperature

Temperature

42



Last Reported Time16:46:34 Jun 10, 2015

In the top bar of the widgets are three buttons with specific functions:



You can use this button to move the widget in the dashboard, repositioning it in relation to other widgets.

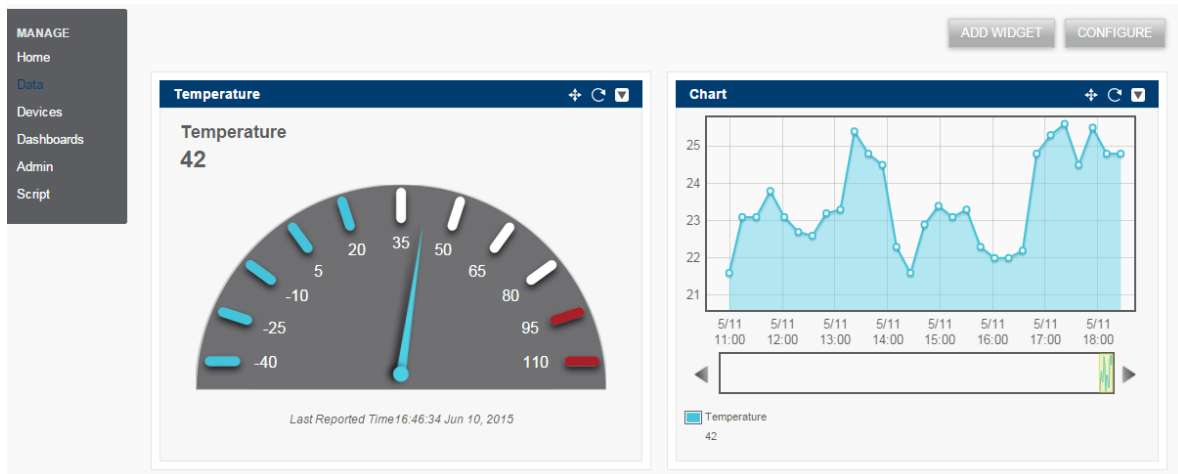


You can use this button to force the update of values in the widget.



You can use this button to view the properties of the widget or to delete it.

Example of a dashboard with two widgets:



You can find more information about widgets on this [link](#).

DELETING A DASHBOARD

To delete a dashboard, you must access to their properties and in the Delete Dashboard section, type the word **confirm** and click DELETE.

Delete Dashboard

WARNING! If you delete this Dashboard, this Dashboard's configurations will be lost (no data will be affected, however).

To delete, first type "confirm" below.

ADMIN

Some portal information, the user inclusion and the summary use of contracted resources are available in this section.

RENAMING THE PORTAL

To rename the portal, click the Admin item on the left menu and in Portal Information section edit the field Portal Name and click UPDATE.

Portal Information

Portal Name:

New Thumbnail: Nenhum...nado

START DASHBOARD

Define this dashboard as the homepage when logging into the account. To change this, click the Admin item in the left menu, and then in the Set Portal Home Page section, select the desired dashboard and click SUBMIT.

Set Portal Home Page

Select dashboard to set as portal home page:

My Dashboard ▼

SUBMIT

NEW USERS

To add new users, click the Admin item on the left menu and in the Portal Roles section insert the user name and select the role for that user on the platform.

Portal Roles

Enter User:

anotherviewer@gmail.com

Search for other users by entering either their name, Username, or complete email address.

Role:

Viewer ▼

View Dashboard:

My Dashboard ▼

* An account creation invitation email will be sent to the user if they do not already have an account.

INVITE USER

Current Roles:

Role	User Name	Remove
Owner	John Doe <novuscloudusertest>	

There are two types of users available: Manager and Viewer. A Manager can edit all the properties of the application, while the Viewer can only access the permitted dashboards. There is an additional type, called Contact, which you cannot use.

Click the button INVITE USER to send an invitation to a new user. The guest user will receive an email with the information of its account activation. This invitation is valid for seven days. After this period, you will need to contact iot@novusautomation.com informing the email address of the user to renew the invite.

PORTAL RESOURCE SUMMARY

When signing up a plane, there is a set of features associated with it. To view the summary, click on the Admin item on the left menu and then in the Portal Resource Summary section, to view the summary of use of the resources.

Portal Resource Summary		
	Used	Total
Users	1	1
Custom Dashboards	1	5
Storage	0 B	-
Devices	1	1
Data Sources	3	100
Events	0	100
Alerts	0	100
Shares	0	100
Daily Email Limit	0	10
Daily SMS Limit?	0	0
SMS Bucket?	-	-
Daily XMPP	0	100
Daily HTTP Dispatches	0	100

The resources shown in red colour have reached their limit. If you need more features, please contact us at iot@novusautomation.com.

SCRIPT

The platform allows advanced programming language with Lua. The scripts run directly on the server, so do not depend on access to the site for execution. You can use the scripts to, for example:

- Perform advanced data analysis using mathematical functions and multiple platforms
- Adjust and interpret the data
- Convert the data to other formats
- Send emails, update http pages, publish on twitter
- Send data to other systems

ADDING A SCRIPT

To add a script, click the Script item in the left menu and after load the new screen, click (+ Add Script) on the top right corner of the screen to start adding a new script. A script can have the scope of the platform or device. In the following example, the Reference Device is My Device and the sample script (template) performs the dispatch of emails.

Scripting

STEP:

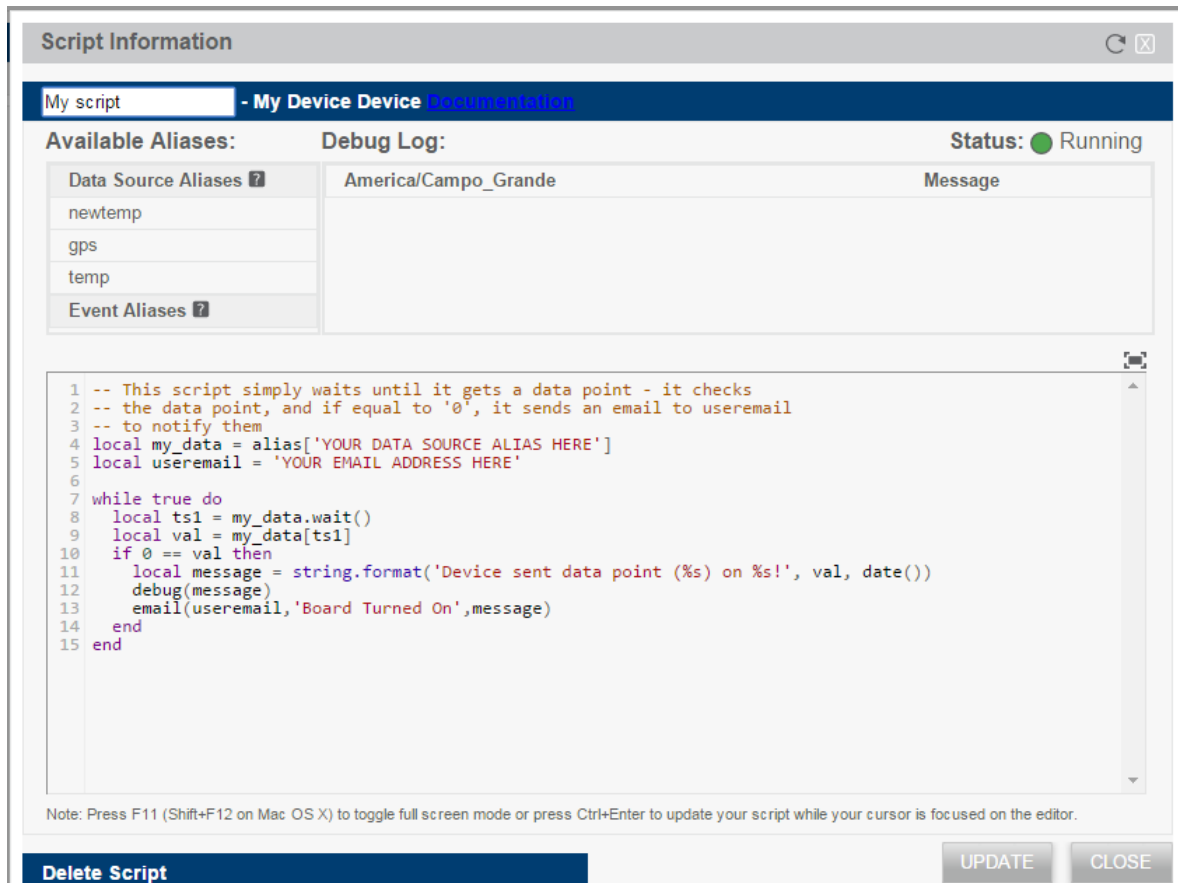
CONFIGURATION

What is a Script?
Scripts are based on a coding language called Lua. Reference manuals for Lua 5.2 can be found at <http://www.lua.org/manual/5.2/>

Reference Device: ? My Device
Script Name: My script
Example Script: ? Email Dispatch

QUIT
CONTINUE

The script editor allows debugging on the same programming environment, so that if there are any errors, the editor will display a message and the status will indicate the problem. The next image show an example of screen:



Because the scope is for the device My Device, you can use just their own variables in the Available Aliases section. After editing the script and confirm that they will run smoothly, click UPDATE.

NOTE: You can use one free script for each device. If you need to use more scripts, you need to buy more contacting us at iot@novusautomation.com.

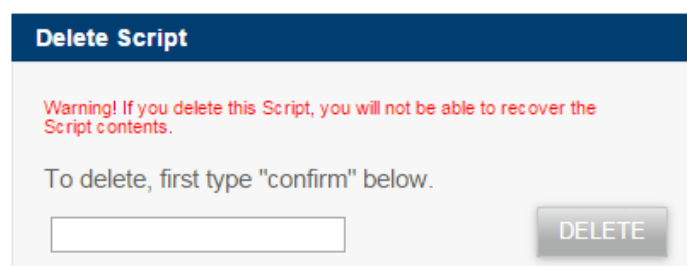
See additional documentation on programming scripts on the platform [here](#).

SCRIPT PROPERTIES

To edit a script, click the Script item on the left menu and select a script to access its properties. The properties screen allows you to change all the parameters previously set. After you finish editing, click on the UPDATE button.

DELETING A SCRIPT

To delete a script, access their properties and in the Delete Script section, type the word confirm and click DELETE.



SUPPORTED DEVICES

The NOVUS CLOUD platform supports the next NOVUS devices and their variations:

- FieldLogger
- AirGate-3G
- AirGate-3G with GPS
- TagTemp-NFC
- TagTemp-NFC with digital input