

NVECloud

Quick Guide

The screenshot shows the NVECloud interface with the following details:

- Header:** WINDOW Master, Overview, Graph, Users, Project Management > NVETraining 2 zones 2, 4, NVETraining 2 zones 2, 4, Wicloud, www.windowmaster.com, Settings.
- Left Sidebar:** NVETraining 2 zones 2, 4, Buildings, Building 1 -.
- Right Content:**
 - Project - NVETraining 2 zones 2, 4:** A table showing zone details:

Zone	Zone status	Ventilation status	Actual temperature (°C)	Actual temperature setpoint (°C)	CO2 (ppm)	Humidity (%)	Ventilator (%)
Zone 2 - Zone2_OnWCC2	OK	Ventilation controlled by temperature	24.7	<input type="button" value="22.5"/> <input type="button" value="Apply"/>	520	52	0
Zone 4 - Zone4_OnWCC2	OK	Ventilation controlled by temperature	24.2	<input type="button" value="22.5"/> <input type="button" value="Apply"/>	480	48	0
Zone 5 - Zone5_For testing	OK	Demand driven pulse ventilation	22.0	<input type="button" value="22.5"/> <input type="button" value="Apply"/>	600	55	-

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Table of Contents

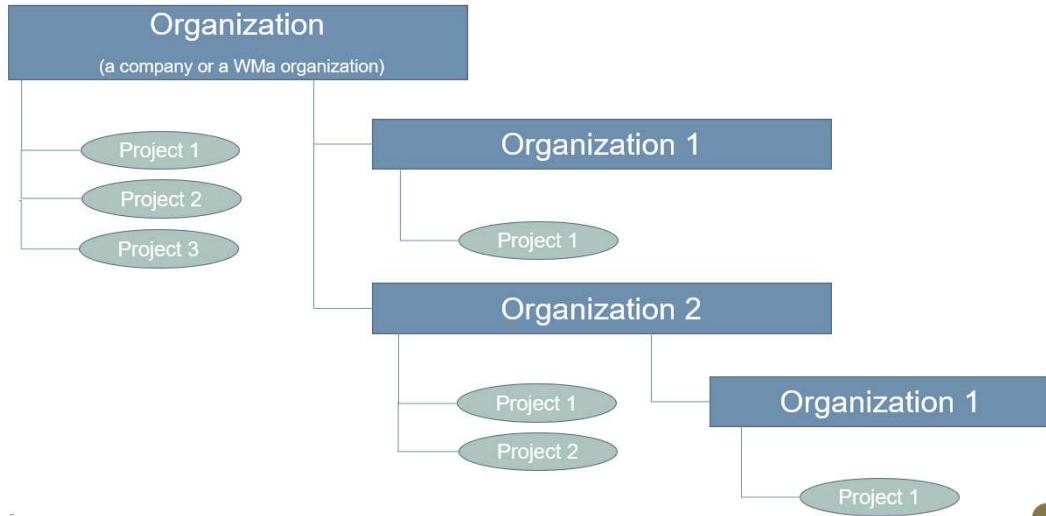
1. General.....	3
2. Dashboard.....	4
2.1 The Overview module.....	4
2.1.1 Creating a new Organization or new Project.....	5
2.1.2 Project	6
2.1.3 Building the NVECloud project.....	7
2.2 The Graph module.....	8
2.2.1 Exporting historical data	9
2.3 The Users module.....	9
2.3.1 User accounts	10
2.3.2 Assigning permissions.....	11

1. General

This document describes how to work with NVECloud to create and administrate NV Embedded® (NVE) systems.

The document assumes that the reader has a good knowledge of WindowMaster control units and good understanding of the WindowMaster NV Embedded® system.

The NVECloud is a web-based application designed for easy creation and administration of NVE systems. The application structure is hierarchical with Organizations and Projects. An Organization is a WMa organization or a company partner of WindowMaster. An Organization can have 'sub' organizations referring to it and or NVE Projects referring to it.



NVECloud has three User roles.

- An Organization Manager–
 - Manages its organization(s) and can manage any of the sub organizations and Projects, referring to its organization(s).
 - Creates new Organizations and creates new Organization Managers.
 - Creates new Projects and creates new Facility Managers.
 - Manages projects as a Facility Manager.
- A Facility Manager
 - Manages one or more Projects.
 - Creates new Facility Managers.
 - Creates new App users.
- An App User
 - Has permission to use the "NV Embedded®" App to see the status of specific zones and operate specific windows in the building(s).

To access the NVECloud Dashboard you must be either an Organization Manager or a Facility Manager. Navigate to: <https://nvecloud.windowmaster.com> and log on with the credentials you have received.

Note that the application is designed to run in either Microsoft Edge or Google Chrome. The application can also run on IOS or Android tablets. The application is not tested with other Internet browsers.

2. Dashboard

The Dashboard is the User Interface to NVECloud and to NVE systems. The Dashboard includes 3 modules – Overview, Graph and Users – and a settings page.

On the left side of the screen, the modules have a navigation frame, to navigate through the Organization/Project structure.

On the right side of the screen, the modules have a data frame to display the information related to the selected Organization/Project, data points, or users.

Navigation frame

Data frame

The navigation frame can be collapsed to the left by pressing the  button on the top right corner of the navigation frame, to make more room to the data frame.

Navigation frame (collapsed)

Data frame

2.1 The Overview module

The Overview module gives an overview of the (sub) Organizations and the projects belonging to a given Organization. It is also used to create new Organizations and new projects.

On the top of the navigation frame, is the name of the selected Organization, under the **Organizations** is a list of the sub-Organizations, this current Organization has, and under the **Projects** is a list of the projects, this current Organization has.

The screenshot shows the WindowMaster dashboard. On the left, a sidebar lists 'Selected Organization' (WindowMaster), '(Sub) Organizations' (Organizations, Product Management, TestPartner1, TestPartner2), and 'Projects owned by selected Organization' (DOKA test project, NVETraining2 zone-5, NVETraining2 zone-6). The main content area shows a detailed view of the selected organization 'WindowMaster' with fields for Name (WindowMaster), Address (Skelstedet 13, 2950 Vedbæk), and Phone (+45670300). A red arrow points from the text 'Selected Organization' to the 'WindowMaster' sidebar item. Another red arrow points from '(Sub) Organizations' to the 'Organizations' section in the sidebar. A third red arrow points from 'Projects owned by selected Organization' to the 'Projects' section in the sidebar.

When selecting an Organization, you make it the current Organization and you get the overview of its (sub) Organizations and projects. When selecting a Project, you get an overview of that specific project.

In the data frame, you can see the data of the selected Organization/Project.

When you log on to the Dashboard you are always at the top level of your Organizations/Projects level, depending on your credentials.

2.1.1 Creating a new Organization or new Project

To create a new Organization press the '+' button to the right of the **Organizations** list header.
To create a new Project press the '+' button to the right of the **Projects** list header.

The screenshot shows the WindowMaster dashboard. The 'Organizations' section has a red circle around the '+' button next to the 'Organizations' header. The 'Projects' section also has a red circle around the '+' button next to the 'Projects' header. The main content area shows a detailed view of the selected organization 'WindowMaster' with fields for Name (WindowMaster), Address (Skelstedet 13, 2950 Vedbæk), and Phone (+45670300). A red arrow points from the text 'Enter the required information and press Save.' to the 'Save' button in the top right corner of the data frame.

Enter the required information and press Save.

You can always edit the Project or Organization information, by editing the information and saving it again.

To edit a project name, click the 'edit' button to the right of the project name and select "Rename".

Projects

- DOKA test project
- NVETraining2 zone-5
- NVETraining2 zones 1,3
- SEOJ Test Project
- Test 3

Rename

2.1.2 Project

When you select a Project on the left side, you see an overview of its zones on the right side.

Project - NVETraining 2 zones 2,4

Zone	Zone status	Ventilation status	Actual temperature (°C)	Actual temperature setpoint (°C)	CO2 (ppm)	Humidity (%)	Ventilation (%)
Zone 2 - Zone2_OnWCC2	OK	Ventilation controlled by temperature during night	24.6	20.5	560	48	0
Zone 4 - Zone4_OnWCC2	OK	Ventilation controlled by temperature during night	24.1	20.5	540	47	0
Zone 5 - Zone5_For Testing	OK	Windows closed due to low indoor temperature	0.0	20.5	0	0	0

You can then select the 'MotorLine' tab for an overview of all the motor lines in the project.

Project - NVETraining 2 zones 2,4

MotorController	Zone	Motorline	OK/Error	Actual window position (%)	Actual maximum position (%)	Time for disable Auto after Manual (min)
WCC-048, GPT test WAGO	Zone2_OnWCC2 - MG 2	MotorLine 2 -	OK	10	10	30
WCC-048, GPT test WAGO	Zone4_OnWCC2 - MG 4	MotorLine 4 -	OK	20	20	1
WCC-048, GPT test WAGO	Zone5_For Testing - MG 5	MotorLine 5 -	OK	20	20	1

On the left side you can navigate in the Project structure from Building to Part, to Zone, to MotorController (a MotorController can be any panel of type WCC 3x0 P, WSC 3x0 P or WSC 5xx), to Motor group, and to Motor line.

Motor Group 2 - MG2_OnWCC2

MotorController	Zone	Motorline	OK/Error	Actual window position (%)	Actual maximum position (%)	Time for disable Auto after Manual (min)
WCC-048, GPT test WAGO	Zone2_OnWCC2 - MG 2	MotorLine 2 -	OK	10	10	30

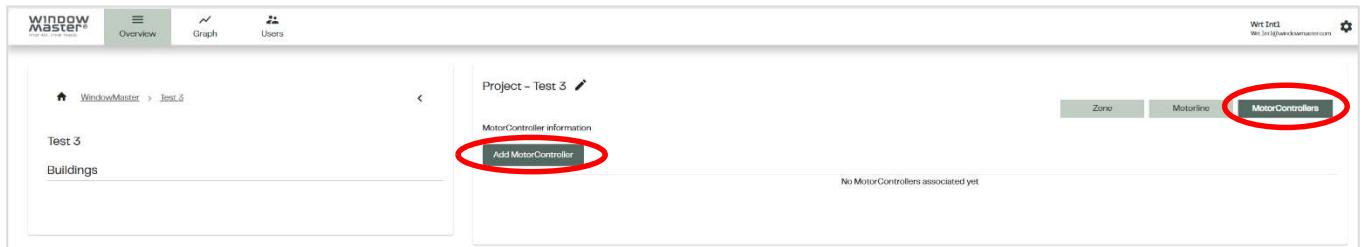
Note that some of the data points/information associated with different levels of a project, will be implemented in coming updates of the Dashboard.

2.1.3 Building the NVECloud project

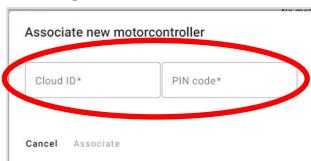
The NVECloud project is built from the project structure data stored on the physical MotorController (type WCC 3x0 P, WSC 3x0 P and/or WSC 5xx) that run the NVE system.

When you start a new project, the project navigation frame, the zones and motor lines overviews are all empty.

Select the 'MotorControllers' tab and press the 'Add MotorController' button to associate all the physical MotorControllers of the project, with the NVECloud project.

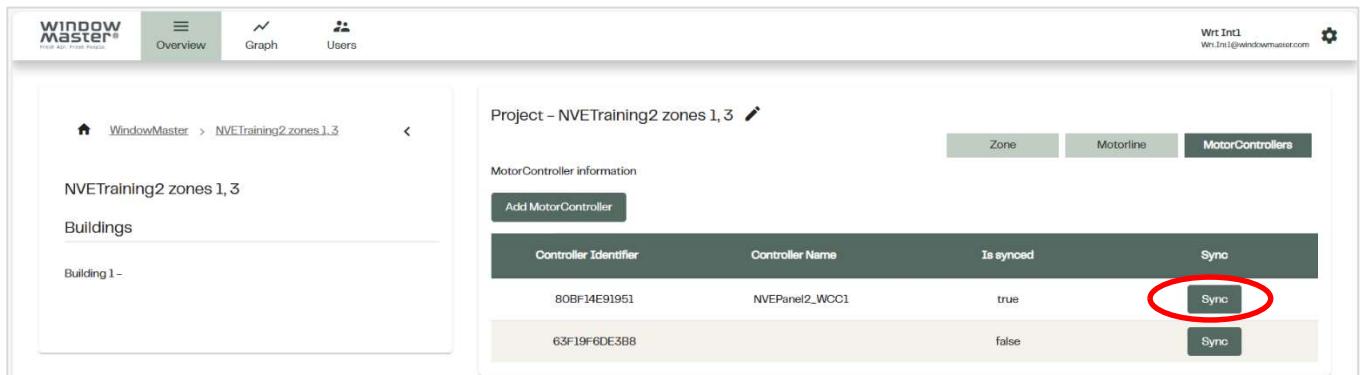


To associate a MotorController, you must supply the Cloud ID (Device ID) and the PIN code (Activation code) of the MotorController. The information can be found in the cloud menu

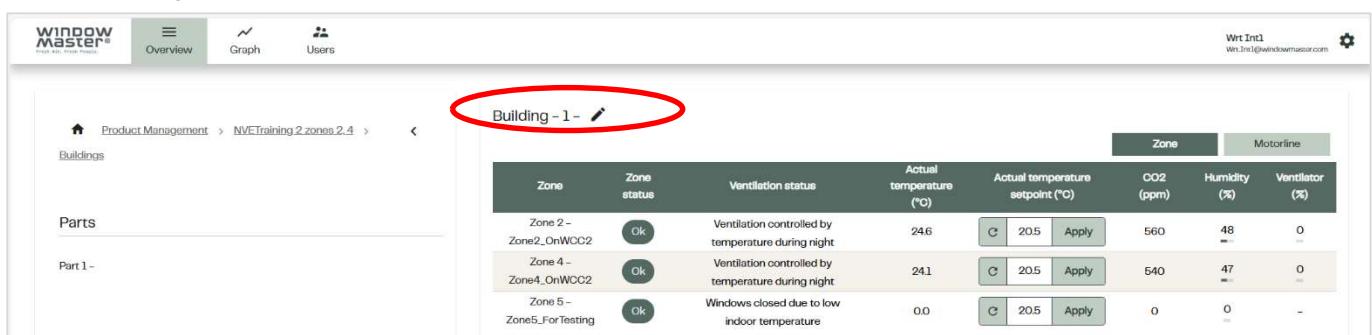


After associating the MotorControllers, press the 'Sync' button of the MotorControllers that actually run NV-Controllers. The Sync function copies the project structure data – Building, Part, Zone, Motor groups, Motor lines – from the MotorController and creates the structure in the NVECloud project.

Any MotorController running Slave Motor groups will also automatically be synced, when you sync the MotorController running the Master Motor groups. In the illustration below, the first MotorController is synced, the second is not synced yet.



Now select the newly created 'Buildings' and 'Parts' and give them names by pressing the 'Edit' button to the right of the selected Building or Part.



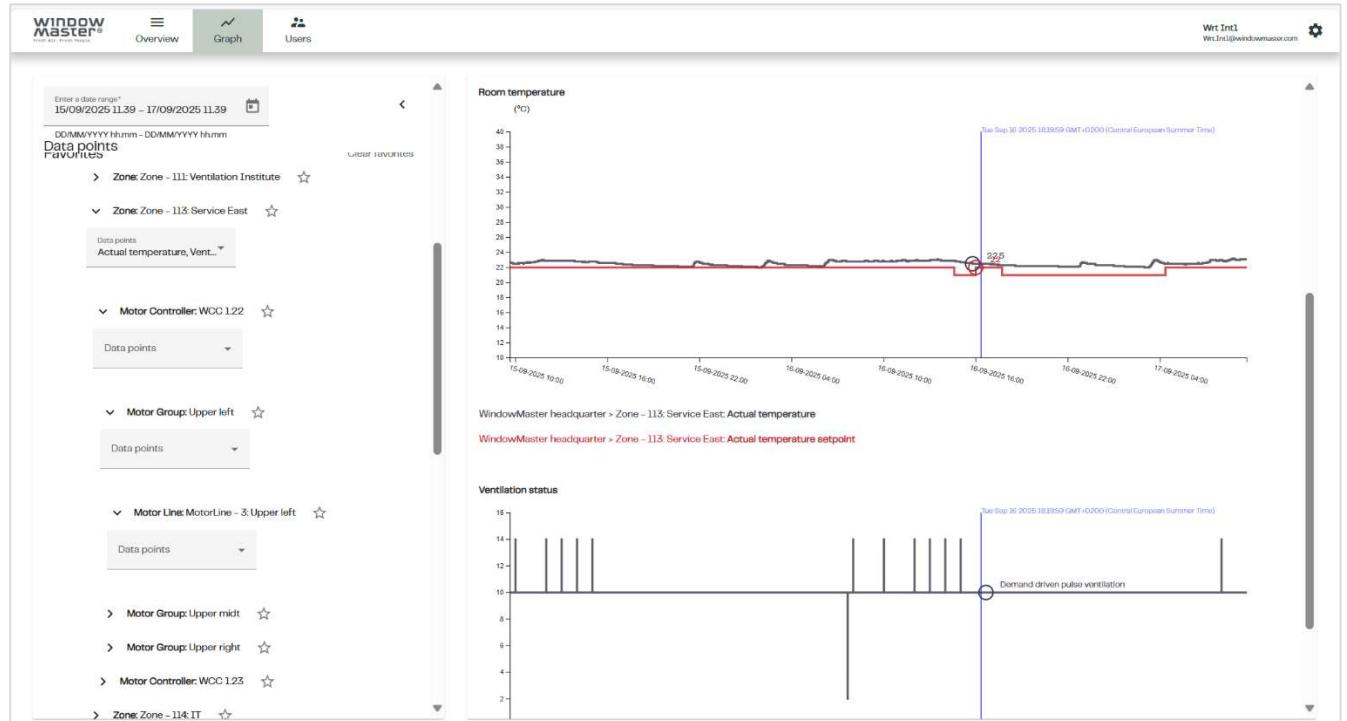
2.2 The Graph module



The Graph module gives access to projects historical data, continuously logged in the NVECloud solution. The historical data can be used to analyse and document the performance of NV Embedded® systems and to help troubleshoot eventual errors and functional issues.

When you have selected the Graph module, you can, on the left side of the screen, navigate and select specific data points to look at, and you will see the diagrams with the selected data points on the right side of the screen.

Inflate the Zone, Motor controller, Motor group or the Motor line, you navigated to and select the data point from the drop-down menu.



When the same data point e.g. temperature is selected for several zones, all the different temperatures will be shown in one graph.

You can mark zones Motor controllers, Motor groups and Motor lines as favourites to gain easy access to them without the need to navigate to them through the entire data point selection structure.

The time interval of the extracted logged data is the last 24 hours, but you can specify the time interval you are interested in, in the upper left corner of the screen. After you open the calendar object to select the date interval, the first click on a date defines the start date and the second click defines the end date. To change the time of the day you must manually edit the start and end times on screen.

Time interval is always specified and the X-Axis shown in UTC time. Local time is shown in the blue popup text of the cursor.



Use the mouse to mark an area on the displayed graph to zoom-in, in both time (the X-axis) and values (the Y-axis), to look at a smaller area of the graph in more details. Double click in the graph area to return to the original scale.



2.2.1 Exporting historical data

You can export the extracted data to .csv files on your computer by pressing the 'Export to CSV' link. Each of the extracted data points will be exported to its own separate file.



2.3 The Users module



The Users module functionality is to create and manage User accounts, and to assign permissions for the mobile App users. NVECloud has three User roles.

- An Organization Manager-
 - Manages its organization(s) and can manage any of the sub organizations and Projects, referring to its organization(s).
 - Creates new Organizations and creates new Organization Managers.
 - Creates new Projects and creates new Facility Managers.
 - Manages projects as a Facility Manager.
- A Facility Manager
 - Manages one or more Projects.
 - Creates new Facility Managers.
 - Creates new App users.
- A mobile App User
 - Has permission to use the "NV Embedded®" App to see the status of specific zones and operate specific windows in the building(s).

2.3.1 User accounts

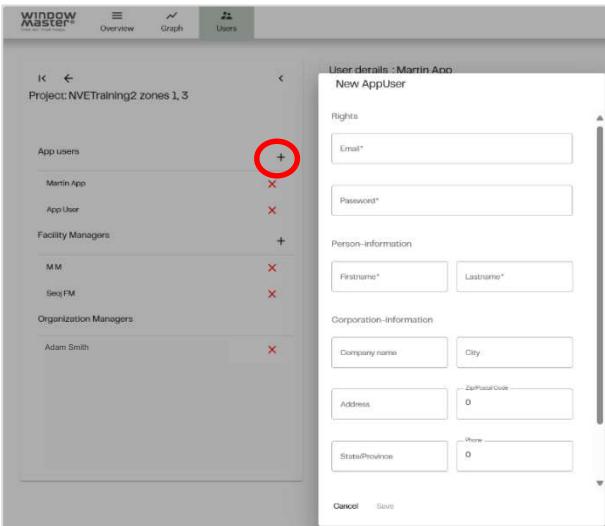
On the left side of the screen, the upper part is for navigating to an existing Organization or a Project. The lower part includes the Users lists, which may include the Organization Managers list, the Facility Manager list, and the App users list.

The image consists of two side-by-side screenshots of the WindowMaster application interface. Both screenshots show a top navigation bar with the WindowMaster logo, 'Overview', 'Graph', and a 'Users' button (which is highlighted in green). Below the navigation bar, the left screenshot is for 'Organization: WindowMaster' and the right one is for 'Project: NVETraining2 zones 1, 3'. Both screenshots show a sidebar with sections for 'Projects', 'Organizations', 'Users', and 'App users'. The 'Organizations' and 'App users' sections are circled in red. The right screenshot also shows sections for 'Facility Managers' and 'Organization Managers', which are also circled in red. Each section contains a list of user names with a red 'X' icon to the right of each name.

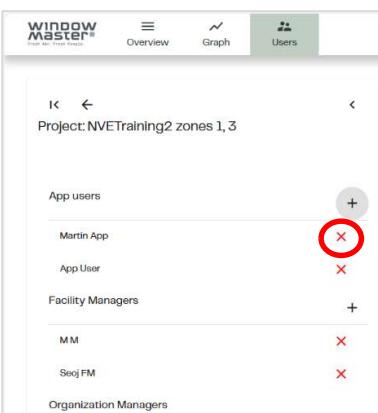
To manage a user account, navigate to the Organization/Project the user account belongs to, and select the specific user. On the right side of the screen, you can see and alter the User information.

This screenshot shows the 'User details : Martin App' page. At the top right, there are buttons for 'Save user info' and 'User permissions'. A red circle highlights the 'User Info' button. The page displays personal information for 'Martin App', including 'Email: mmmm-app@trifork.com', 'Role: App User', 'Firstname: Martin', and 'Lastname: App'. It also shows 'Corporation-information' fields for 'Company name' and 'City', and a 'Zip/Postal Code' field with the value '0'.

To create a new User account, press the '+' button to the right of the Organization Managers, Facility Managers or App users list header, then insert the required info and save.



To delete a user, press the 'X' button next to the user you would like to delete. If the user is also associated with other projects or organizations, he/she will not be deleted from the system, just disassociated from the current project/organization.



2.3.2 Assigning permissions

To assign User permissions to see (Read) and/or manipulate (Write) specific zones and specific motor lines, through the mobile app, select the 'User permissions' tab. Navigate to the zone you would like the User to have permissions to then click the Read or Write permission for the zone and its Motor lines and 'Save the permissions'.

