NVECloud
Quick Guide

Table of Contents

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.
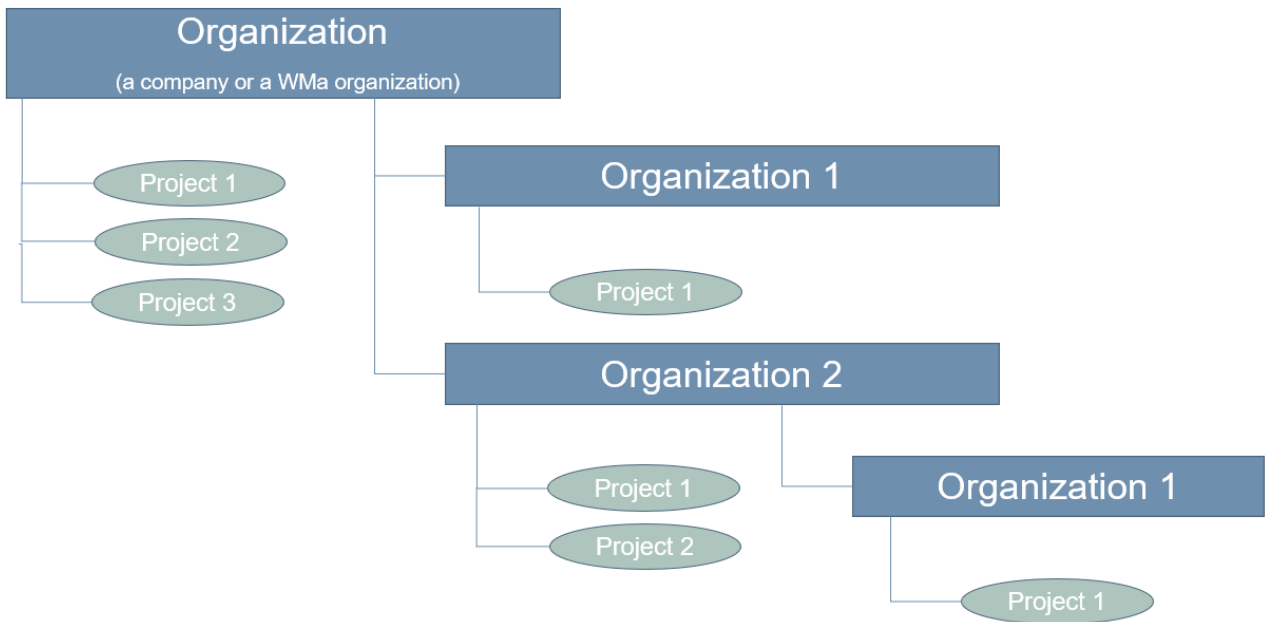
NVECloud has three User roles.
- An Organization Manager–
    - Manages its organization(s) and can manage any of the sub organizations and Projects, referring to its organization(s).
    - Creates new Organizations and creates new Organization Managers.
    - Creates new Projects and creates new Facility 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.
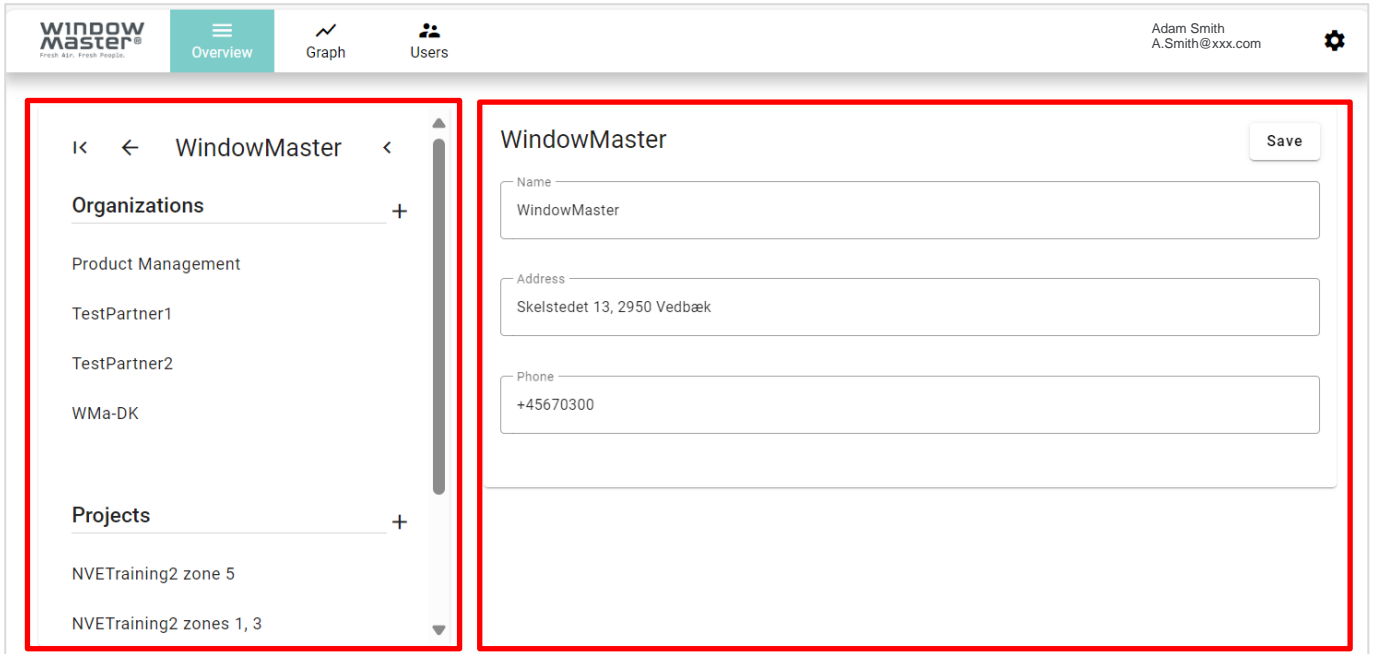
       Navigation frame   Data frame

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.
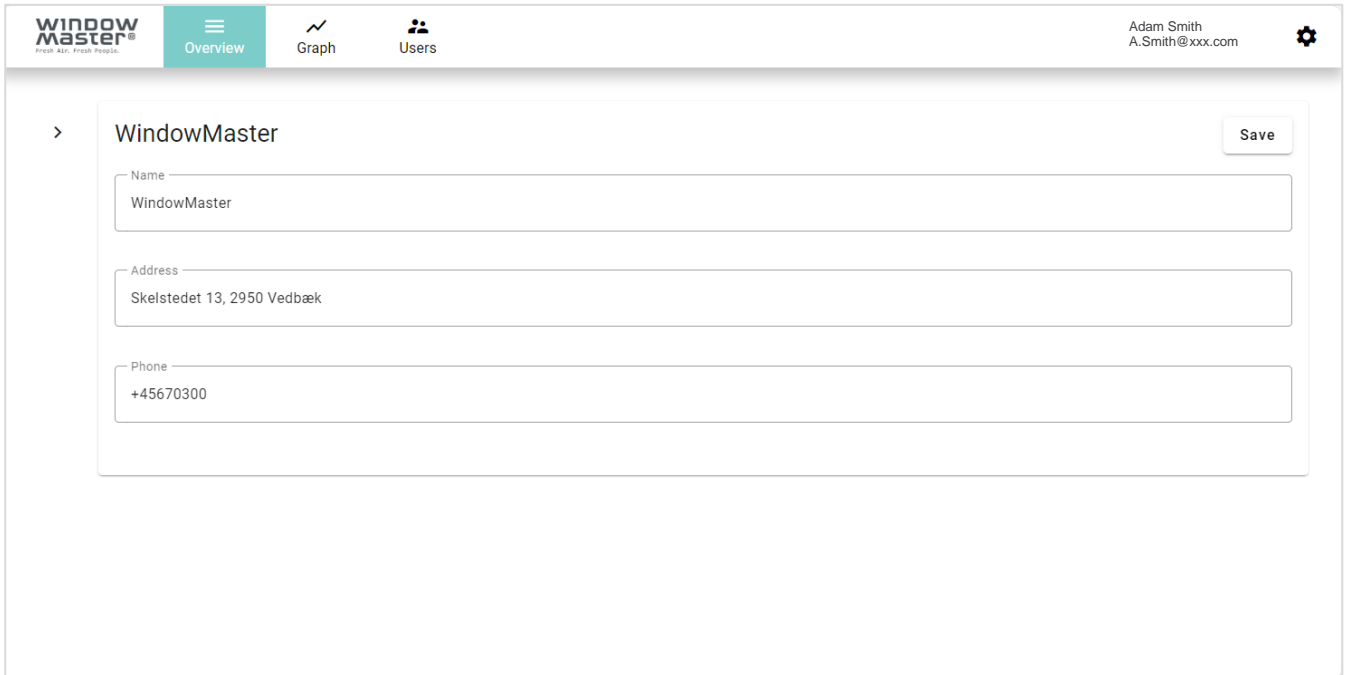
2.1 The Overview module

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.

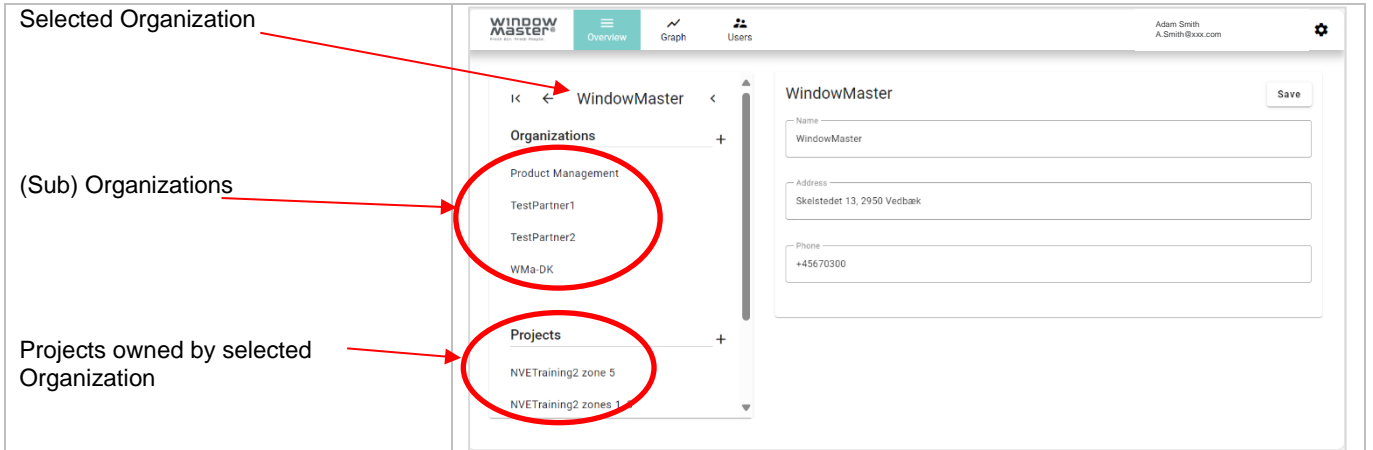On the top of the navigation frame, is the name of the selected Organization, under the **Organizations** is a list of the sub-Organizations, this current Organization has, and under the **Projects** is a list of the projects, this current Organization has.

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.
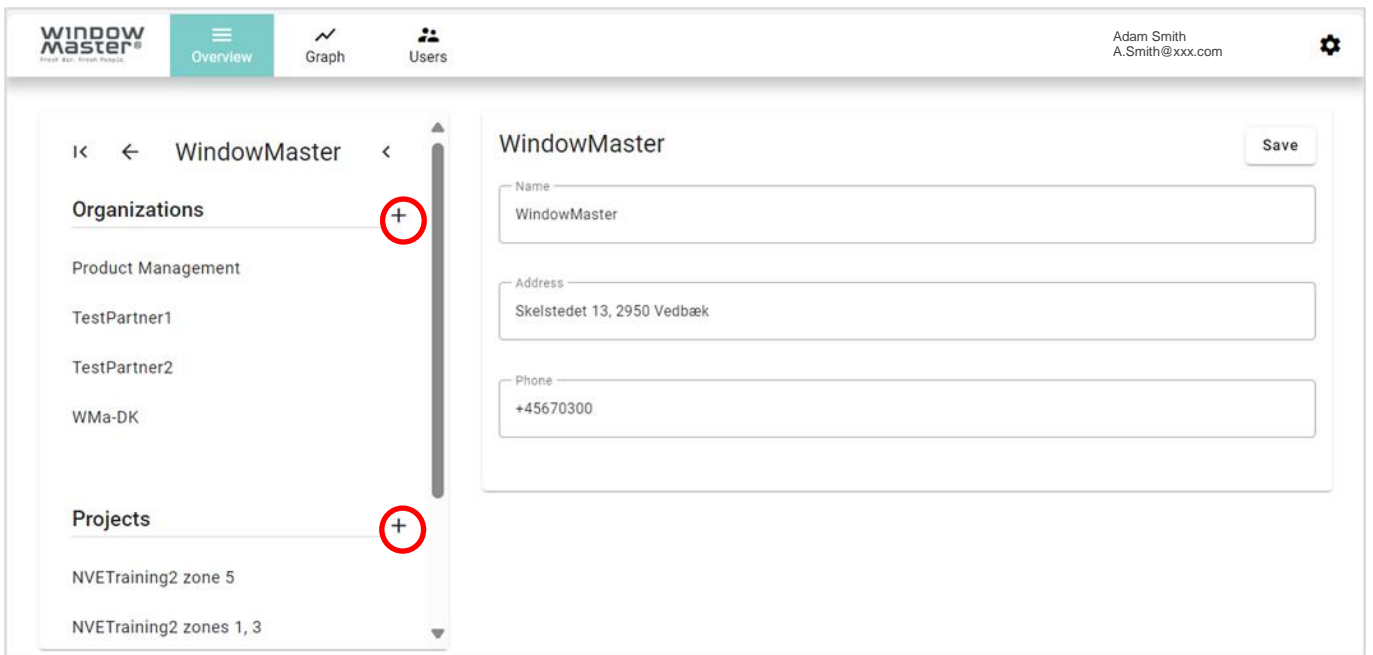
Enter the required information and press Save.

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 on the top of the data frame, make the changes in the popup window and save again.
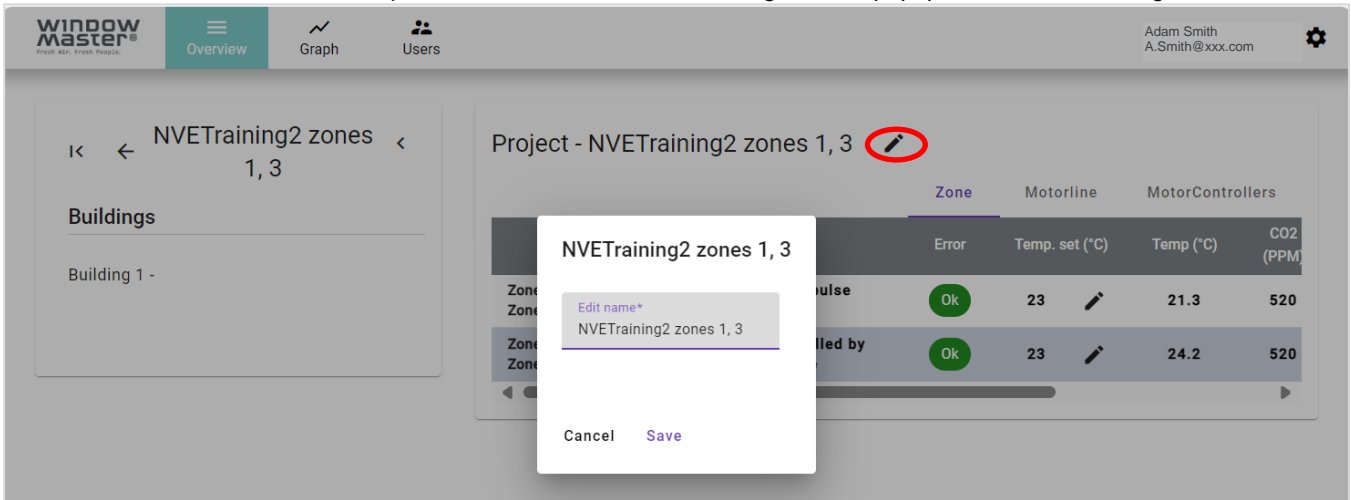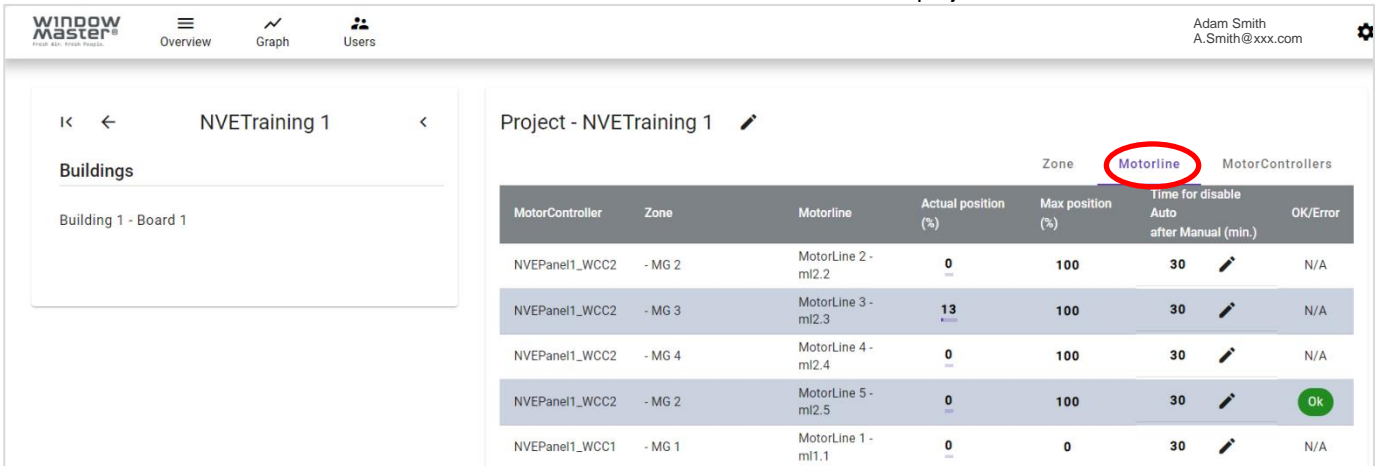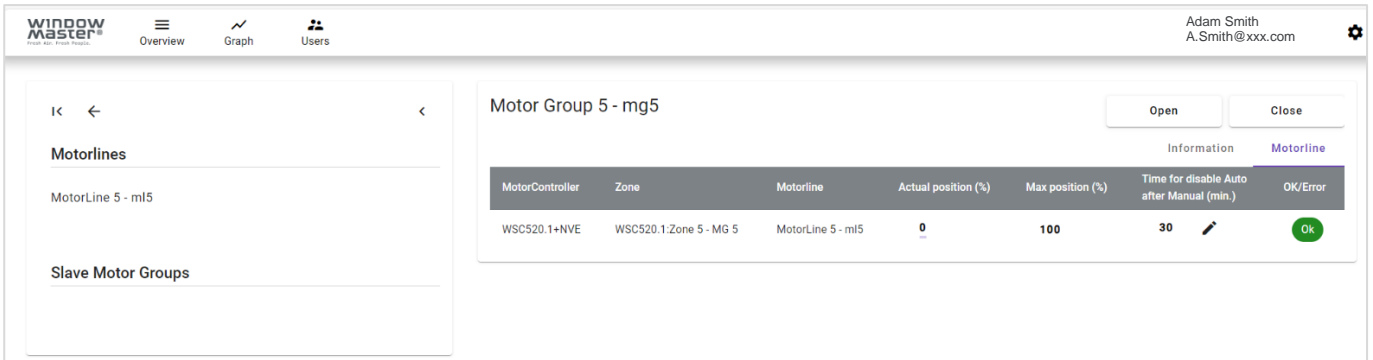

2.1.2 Project

When you select a Project on the left side, you see an overview of its zones on the right side.
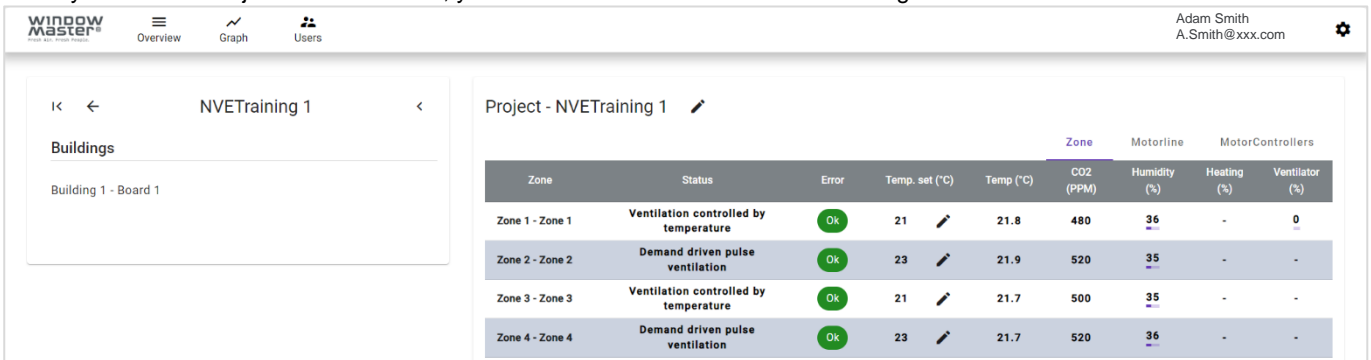
You can then select the 'MotorLine' tab to see an overview of all the motor lines in the project.

On the left side you can navigate in the Project structure from Building to Part, to Zone, to MotorController, to Motor group, and to Motor line.


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 MotorControllers 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.
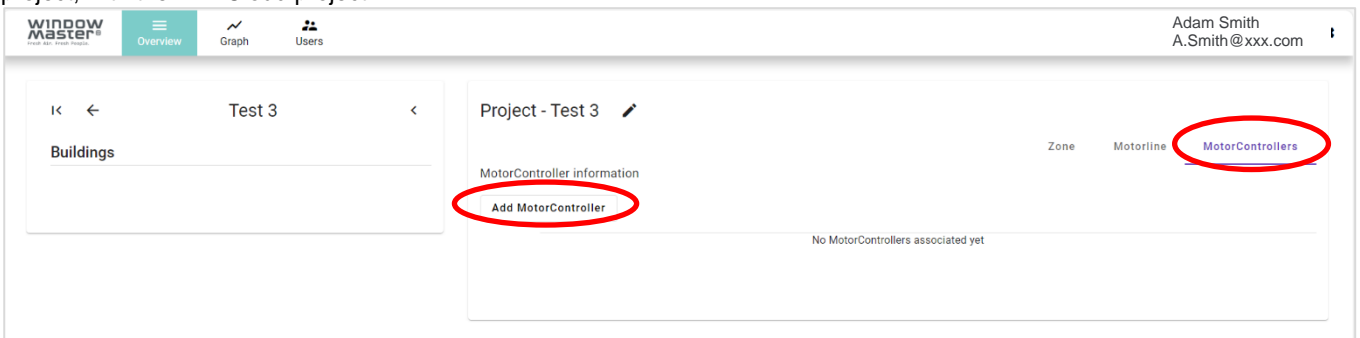

To associate a MotorController, you must supply the Cloud ID and the PIN code of the MotorController.
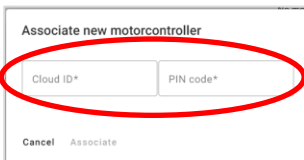
After associating the MotorControllers, press the 'Sync' button of the MotorControllers that actually run NV-Controllers. The Sync function copies the project structure data – Building, Part, Zone, Motor groups, Motor lines – from the MotorController and creates the structure in the NVECloud project.

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.
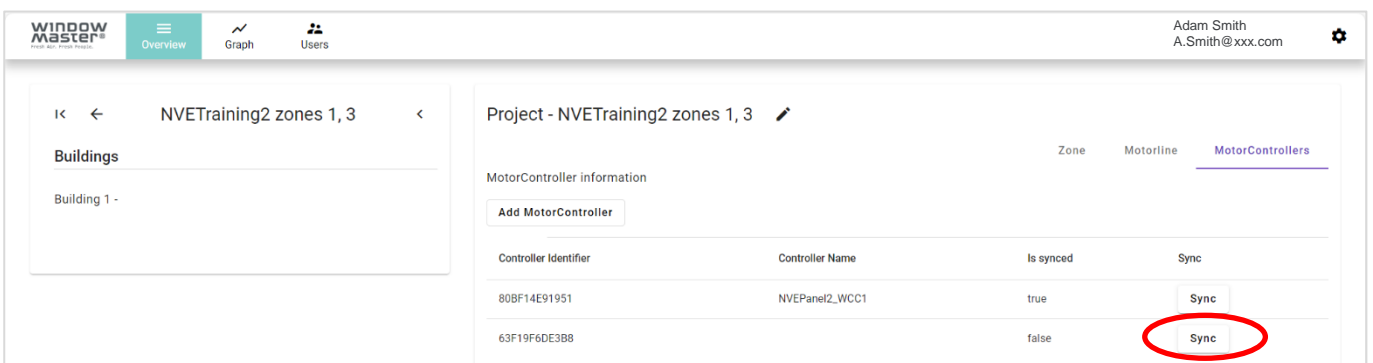
Now select the newly created 'Buildings' and 'Parts' and give them names in the same way you gave a name to the project.

2.2 The Graph module

The Graph module gives access to projects historical data, continuously logged in the NVECloud application. 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 navigate and select specific data points to look at, on the left side of the screen, and you will see the diagrams with the selected data points on the right side of the screen.
Inflate the Zone or the Motor line, you navigated to and select the data point from the drop-down menu.
Note that not all the data points, available in the drop-down menu are implemented yet, and MotorController and Motor group data points will be implemented at a later time.

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 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 shown, in the local time of the project so when you specify, for example a 8:00 – 11:00 o'clock time interval, the extracted data will be from when the project local time was 8:00 – 11:00 regardless of whether the project is in Germany or in California, and regardless of whether you are sitting in Copenhagen or in North Wales, Pennsylvania.
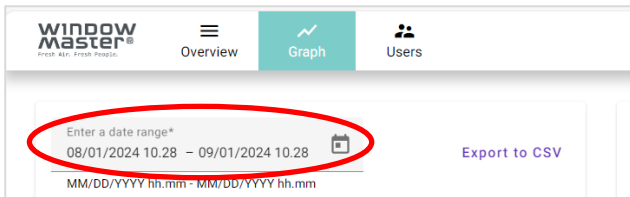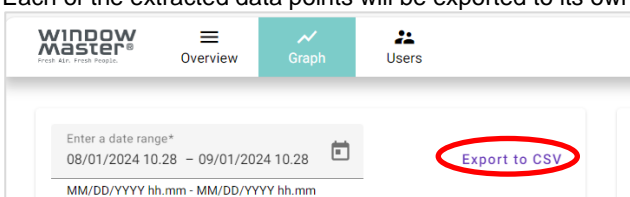

Use the mouse to mark an area on the displayed graph to zoom-in, in both time (the X-axis) and values (the Y-axis), to look at a smaller area of the graph in more details.
Double click in the graph area to return to the original scale.
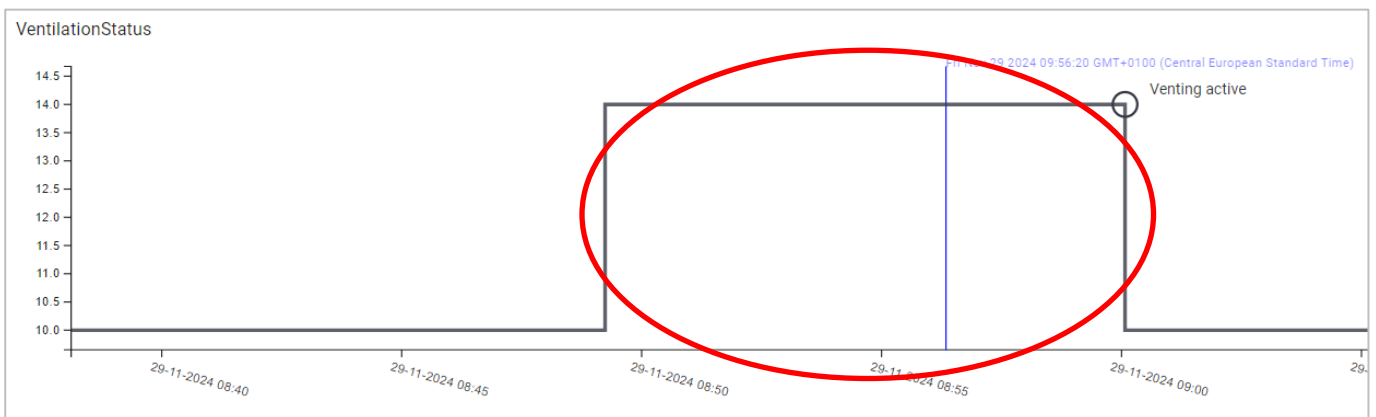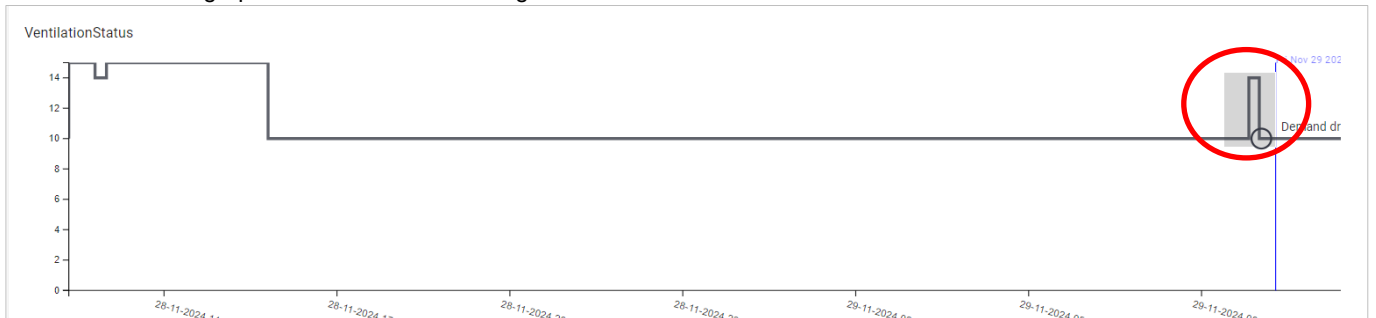
2.2.1 Exporting historical data
You can export the extracted data to .csv files on your computer by pressing the 'Export to CSV' link.
Each of the extracted data points will be exported to its own separate file.

2.3　The Users module

The Users module functionality is to create and manage User accounts, and to assign permissions for App users. NVECloud has three User roles.
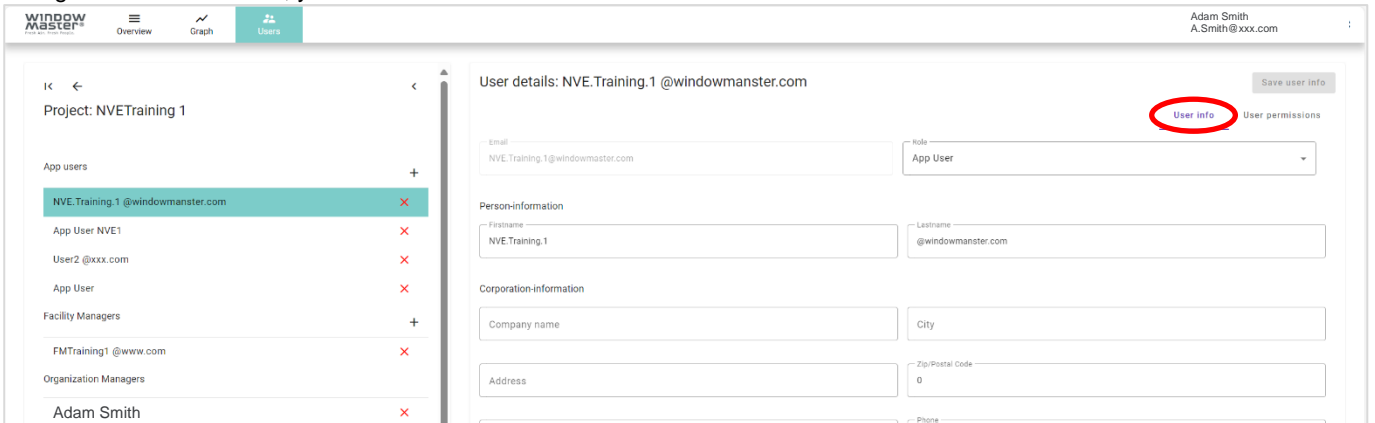
- An Organization Manager–
  - o Manages its organization(s) and can manage any of the sub organizations and Projects, referring to its organization(s).
  - o Creates new Organizations and creates new Organization Managers.
  - o Creates new Projects and creates new Facility Managers.
  - o Manages projects as a Facility Manager.

- A Facility Manager
  - o Manages one or more Projects.
  - o Creates new Facility Managers.
  - o Creates new App users.

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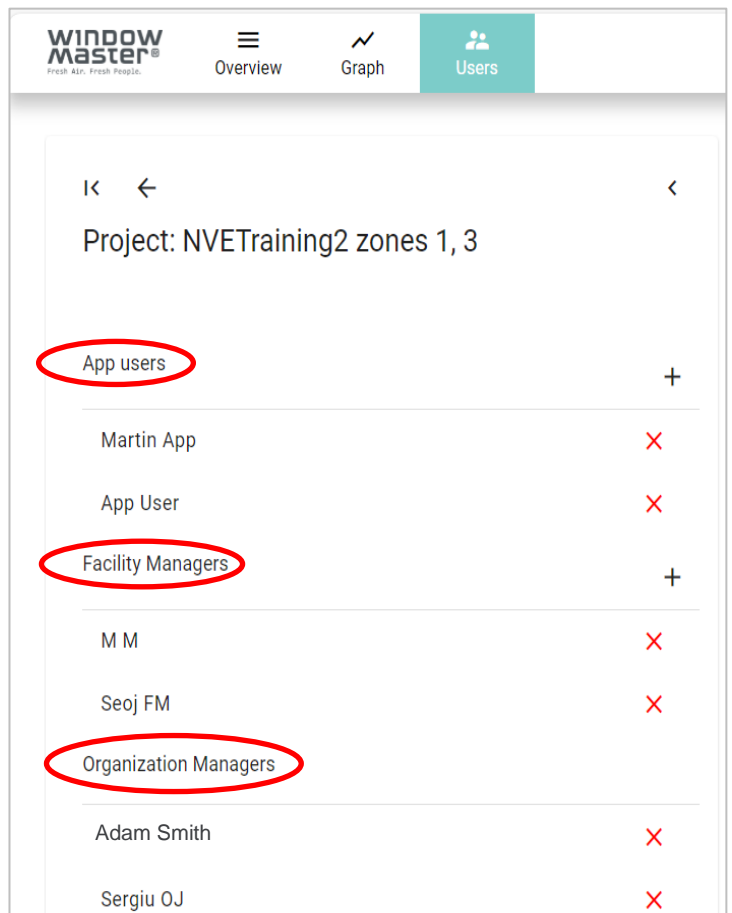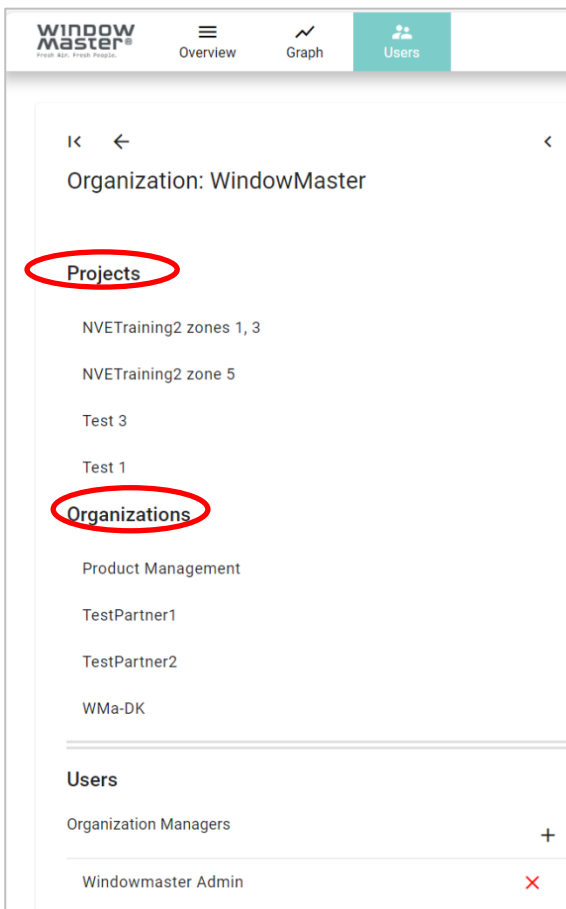
To manage a user account, navigate to the Organization/Project the user account belongs to, and select the specific user. On the right side of the screen, you can see and alter the User information.

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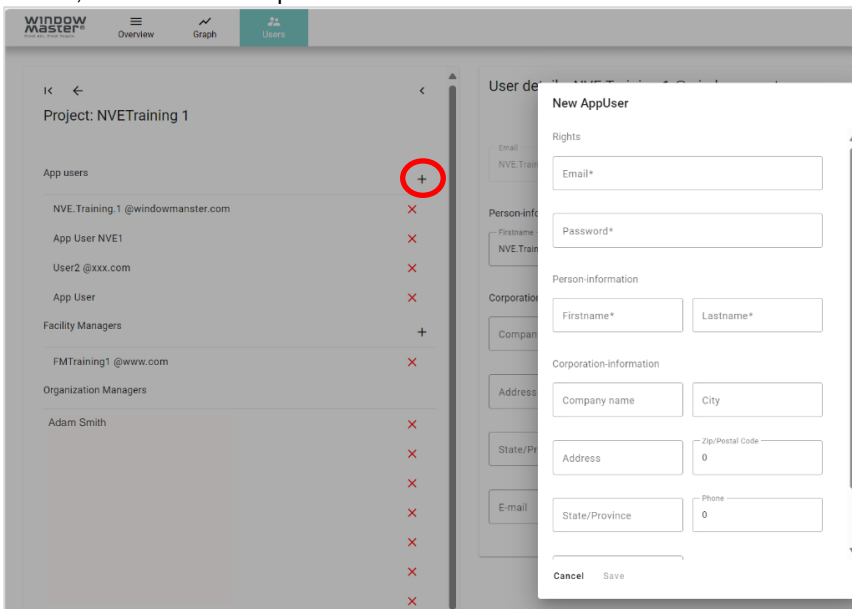
To delete a user, press the 'X' button next to the user you would like to delete. If the user is also associated with other projects or organizations, he/she will not be deleted from the system, just disassociated from the current project/organization.
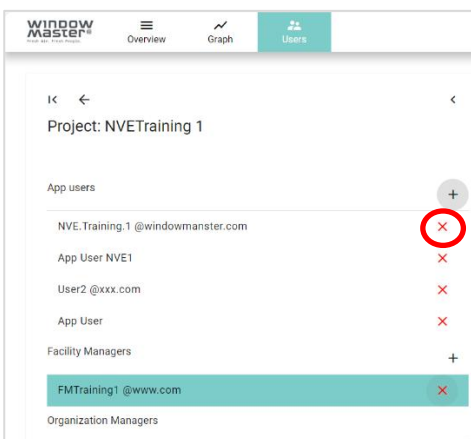
2.3.2 Assigning permissions

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 click the Read or Write permission for the zone and its Motor lines and 'Save the permissions'.