

NVECIoud Quick Guide

ASTER: Cvendew Graph Users								dam Smith Smith@xxx.co	m
ι< ← 1. Sal Zones	< Part 2 - 1. Sal 🖌							Zone	Motorling
Zone 201 - R&D West	Zone	Status	Error	Temp. set (*C)	Temp (*C)	CO2 (PPM)	Humidity (%)	Heating (%)	Ventilator (%)
lane 203 - Lounge	Zone 201 - R&D West	Demand driven pulse ventilation	Ok	23 🖌	21.8	860	35	34	
one 205 - PM West	Zone 203 - Lounge	Demand driven pulse ventilation	Ok	23 🌶	22.1	740	39	0	
one 206 - Finance	Zone 205 - PM West	Demand driven pulse ventilation	Ok	23 🌶	22.1	850	40	18	0
one 207 - Waiting area	Zone 206 - Finance	Demand driven pulse ventilation	Ok	23 🌶	22	740	36	26	
one 208 - CEO, Erik Boyter	Zone 207 - Waiting area	Demand driven pulse ventilation	Ok	22 🌶	20.9	700	44	24	
one 209 - SFO - SOS	Zone 208 - CEO, Erik Boyte	r Demand driven pulse ventilation	Ok	23 🌶	20.5	400	44	39	
one 210 - Head of PM - NRS	Zone 209 - SFO - SOS	Demand driven pulse ventilation	OK	23 🌶	22.1	420	41	10	
ine 211 - Meeting 4	Zone 210 - Head of PM - N	RS Automatic ventilation oFF (only hand operation)	Ok	23 🌶	22.2	680	41	3	
one 212 - Finace controller - MOH one 213 - Supply & Logistic - KRa	Zone 211 - Meeting 4	Demand driven pulse ventilation	Ok	23 🌶	21.9	700	35	21	
nie 213 - Supply & Lugistic - Kra	Zone 212 - Finace control	er - MOH Demand driven pulse ventilation	Ok	23 🌶	22	720	41	18	
ne 215 - Kitchen 1'floor	Zone 213 - Supply & Logis	tic - KRa Demand driven pulse ventilation	Ok	23 🧳	22	600	42	16	
one 216 - R&D east	Zone 214 - PM east	Demand driven pulse ventilation	Ok	23 🌶	22.1	810	40	6	0

DK	+45 4567 0300
DE	+49 40 87 409 -560 Vertrieb / - 484 Technik
UK	+44 1536 614 070
СН	+41 62 289 22 22
NO	+47 33 99 71 00
US	+1 650 360 5414 West Coast / +1 215 699 9292 East Coast
Other market	+45 4567 0300

info.dk@windowmaster.com info.de@windowmaster.com info.uk@windowmaster.com info.nc@windowmaster.com info.nc@windowmaster.com info.dk@windowmaster.com

www.windowmaster.com

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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).
 - o 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: <u>https://nvecloud.windowmaster.com</u> 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.

	E Overview	📈 Graph	Users	Adam Smith A.Smith@xxx.com
K ← Organizati Product Mar TestPartner TestPartner WMa-DK	nagement 1	/ aster	< +	WindowMaster Save Name WindowMaster Address Skelstedet 13, 2950 Vedbæk Phone +45670300
Projects			_+	
NVETraining NVETraining	2 zone 5 2 zones 1, 3		•	

Navigation frame

Data frame

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

WINDOW Master® Fresh Air, Fresh Reople.	E Overview	≁ Graph	₽ Users	Adam Smith A.Smith@xxx.com
	indowMaste	r		Save
s	ddress kelstedet 13, 2950	Vedbæk		
	hone45670300			

2.1 The Overview module

WINDOW E ✓ Main Fresh Air,	Adam Smith A.Smith@xxx.com	\$
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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.

Selected Organization	Chernow Craph Liters	Adam Smith A.Smith@xxx.com
	ı< ← WindowMaster < ₩indowMaster	Save
	Organizations + WindowMaster	
(Sub) Organizations	Product Management	
	TestPartner1 Skelstedet 13, 2950 Vedbæk	
	TestPartner2	
	WMa-DK +45670300	
Projects owned by selected	Projects +	
Organization	NVETraining2 zone 5	
	NVETraining2 zones 1	

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.

(inpow (aster:	≡ Overview	≁ Graph	Users	Adam Smith A.Smith@xxx.com	
ĸ ←	WindowN	laster	<	WindowMaster	Save
Organizati	ions		(+)	WindowMaster	
Product Mar	nagement			Address	
TestPartner	1			Skelstedet 13, 2950 Vedbæk	
TestPartner	2			Phone	
WMa-DK				+45670300	
Projects			(+)		
NVETraining	2 zone 5		U		
NVETraining	2 zones 1, 3				

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.

		≁ Graph	Users							Adam Smith A.Smith@xxx.cr	om 🌣
	IVETrainir 1,	ng2 zones 3	<	Proje	ect - NVETraining2 zones	s 1, 3 🧹	D Zone	Moto	orline	MotorContro	ollers
	Buildings				NVETraining2 zones 1, 3		Error	Temp.	set (°C)	Temp (°C)	CO2 (PPM)
Building 1 -				Zone	Edit name*	ulse	Ok	23	1	21.3	520
				Zone	NVETraining2 zones 1, 3	lled by	Ok	23	1	24.2	520
				•							
					Cancel Save						
				Zone	NVETraining2 zones 1, 3	lled by	Ok	23	1	24.2	520

2.1.2 Project

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

VER ALSO Provide August	≁ Graph	Jusers						_				lam Smith Smith@xx:	k.com
K ←	NVETrainii	ng 1	<	Project - NVE	Training 1 🖌								
Buildings										Zone	Motorline	Motor	Controllers
Building 1 - Board 1				Zone	Status	Error	Temp. s	et (*C)	Temp (*C)	CO2 (PPM)	Humidity (%)	Heating (%)	Ventilator (%)
				Zone 1 - Zone 1	Ventilation controlled by temperature	Ok	21	1	21.8	480	36	-	0
				Zone 2 - Zone 2	Demand driven pulse ventilation	Ok	23	1	21.9	520	35		
				Zone 3 - Zone 3	Ventilation controlled by temperature	Ok	21	1	21.7	500	35		
				Zone 4 - Zone 4	Demand driven pulse ventilation	Ok	23	1	21.7	520	36		

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

ADDOV = ~ 22 Automatication Overview Graph Users							dam Smith .Smith@xxx	c.com
I< ← NVETraining 1 < Buildings	Project - NVET	Fraining 1 🖌			Zone	lotorline	MotorC	ontrollers
Building 1 - Board 1	MotorController	Zone	Motorline	Actual position (%)	Max position (%)	Time for o Auto after Man		OK/Err
	NVEPanel1_WCC2	- MG 2	MotorLine 2 - ml2.2	0	100	30	/	N/A
	NVEPanel1_WCC2	- MG 3	MotorLine 3 - ml2.3	13	100	30	1	N/A
	NVEPanel1_WCC2	- MG 4	MotorLine 4 - ml2.4	0	100	30	1	N/A
	NVEPanel1_WCC2	- MG 2	MotorLine 5 - ml2.5	0	100	30	1	Ok
	NVEPanel1_WCC1	- MG 1	MotorLine 1 - ml1.1	0	0	30	1	N/A

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.

	≡ Overview	≁ Graph			Adam Smith A.Smith@xxx.com								
ı< <i>←</i>				<	N	Notor Group	5 - mg5				Open		Close
Motorlines	1										Info	rmation	Motorline
MotorLine 5	MotorLine 5 - ml5					MotorController	Zone	Motorline	Actual position (%)	Max position (%)	Time for after Mar	disable Auto wal (min.)	OK/Error
						WSC520.1+NVE	WSC520.1:Zone 5 - MG 5	MotorLine 5 - ml5	0	100	30	1	Ok
Slave Moto	or Groups												

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.

WINDOW Fresh Als: Fresh People Overview	✓ ♣ Graph Users				Adam Smith A.Smith@xxx.com
ı≺ ← Buildings	Test 3	<	Project - Test 3 MotorController information Add MotorController	Zone	Motoriine MotorControllers
			No MotorControllers associated yet		

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.

HINDOW Here Ro Area Market Overview Graph Users				Adam Smith A.Smith@xxx.com
I< ← NVETraining2 zones 1, 3 < Buildings Building 1 -	Project - NVETraining2 zones 1, 3 MotorController information Add MotorController	3 🖌	Zone	Motorline MotorControllers
	Controller Identifier	Controller Name	Is synced	Sync
	80BF14E91951	NVEPanel2_WCC1	true	Sync
	63F19F6DE3B8		false	Sync

WINDOW E Master® Overvie									Adam Smith A.Smith@xxx.o	com
K ← Parts	Board 1	Buildin	g - 1 - Board 1						Zone	Motorline
Part 1 - P1		Zone	Status	Error	Temp. set (°C)	Temp (*C)	CO2 (PPM)	Humidity (%)	Heating (%)	Ventilator (%)
		Zone 1 -	Ventilation controlled by temperature	Ok	21 🧪	21.8	440	22		0
		Zone 2 -	Ventilation controlled by temperature	Ok	20 🧨	22.1	440	21	-	-
		Zone 3 -	Ventilation controlled by temperature	Ok	21 🧪	21.6	420	21		
		Zone 4 -	Ventilation controlled by temperature	Ok	20	21.6	440	22	-	-

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

WINDOW Master®	E → La Craph Users	Adam Smith A.Smith@xxx.com	۵
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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

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

Adam Smith A.Smith@xxx.com

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-•
 - Manages its organization(s) and can manage any of the sub organizations and Projects, referring to its 0 organization(s). Creates new Organizations and creates new Organization Managers.
 - 0
 - Creates new Projects and creates new Facility Managers. 0
 - Manages projects as a Facility Manager. 0
- A Facility Manager
 - Manages one or more Projects. 0
 - Creates new Facility Managers. 0
 - Creates new App users. 0
- An App User
 - Has permission to use the "NV Embedded®" App to see the status of specific zones and operate specific windows 0 in the building(s).

User accounts 2.3.1

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.

WINDOW Master E X Overview Graph Users	WINDOW E A Presh Alls. Fresh Preside. Overview Graph	
I< ← Organization: WindowMasterProjects	ı ← Project: NVETraining2 zones 1, 3	٢
NVETraining2 zones 1, 3 NVETraining2 zone 5	App users	+
Test 3 Test 1	Martin App	×
Organizations	App User	×
Product Management TestPartner1	Facility Managers	+
TestPartner2	MM	×
WMa-DK	Seoj FM	×
Users	Organization Managers	
Organization Managers + Windowmaster Admin ×	Adam Smith Sergiu OJ	×
	Jergiu OJ	×

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.

Versia La Francia Control Cont			Adam Smith A.Smith@xxx.com
ı< ← Project: NVETraining 1	<	User details: NVE.Training.1 @windowmanster.com	Save user info User info User permissions
App users	+	Email	Nota -
NVE. Training.1 @windowmanster.com	×	Person-information	
App User NVE1	×	Firstname NVE.Training.1	Lestname @windowmanster.com
User2 @xxx.com	×		
App User	×	Corporation-information	
Facility Managers	+	Company name	City
FMTraining1 @www.com	×		/ Zlo/Postal Code
Organization Managers		Address	0
Adam Smith	×		

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.

K (<	User de		
Project: NVETraining 1			New AppUser	
		Email	Rights	
App users		NVE.Train	Email*	
NVE.Training.1 @windowmanster.com	×	Person-info		
App User NVE1	×	Firstname -	Password*	
User2 @xxx.com	×		Person-information	
App User	×	Corporation	Firstname*	Lastname*
Facility Managers	+	Compan	Filstiane	Lastiane
FMTraining1 @www.com	×		Corporation-information	
Organization Managers		Address	Company name	City
Adam Smith	×	_		
	×	State/Pr	Address	2ip/Postal Code 0
	×			Phone
	×	E-mail	State/Province	0
	×			

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.

NINDOW	Overview	Graph	Users	
K ←				
Project: 1	VETrainin	g 1		
App users				
NVE.Traini	ng.1 @windowi	manster.com		×
App User 1	VVE1			×
User2 @xx	x.com			×
App User				×
Facility Mana	igers			
FMTraining	g1 @www.com			×
-	Managers			

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'.

