

Application Note – Replacing ACC Controller in Cluster Mode



FREUND R&D department did their best to make a long lasting and reliable products, but like with all electronics, faulty devices are possible anywhere.

Following text will describe how to replace a faulty Master and Slave access controller in a Cluster Mode.


Master Controller replacement
















You can use **IP-INTEGRA Network Configurator** in order to find all the devices on the network.

If master controller has failed, easiest way to have a new master is to **upgrade** the slave controller to master controller.

Step 1

Log in to web interface of **Slave controller**. Go to **Devices** and confirm that **Master controller** status is **offline/failed**.

 You are currently running in Slave Mode. Any changes you make CANNOT be saved and applied.
Please switch to Master.

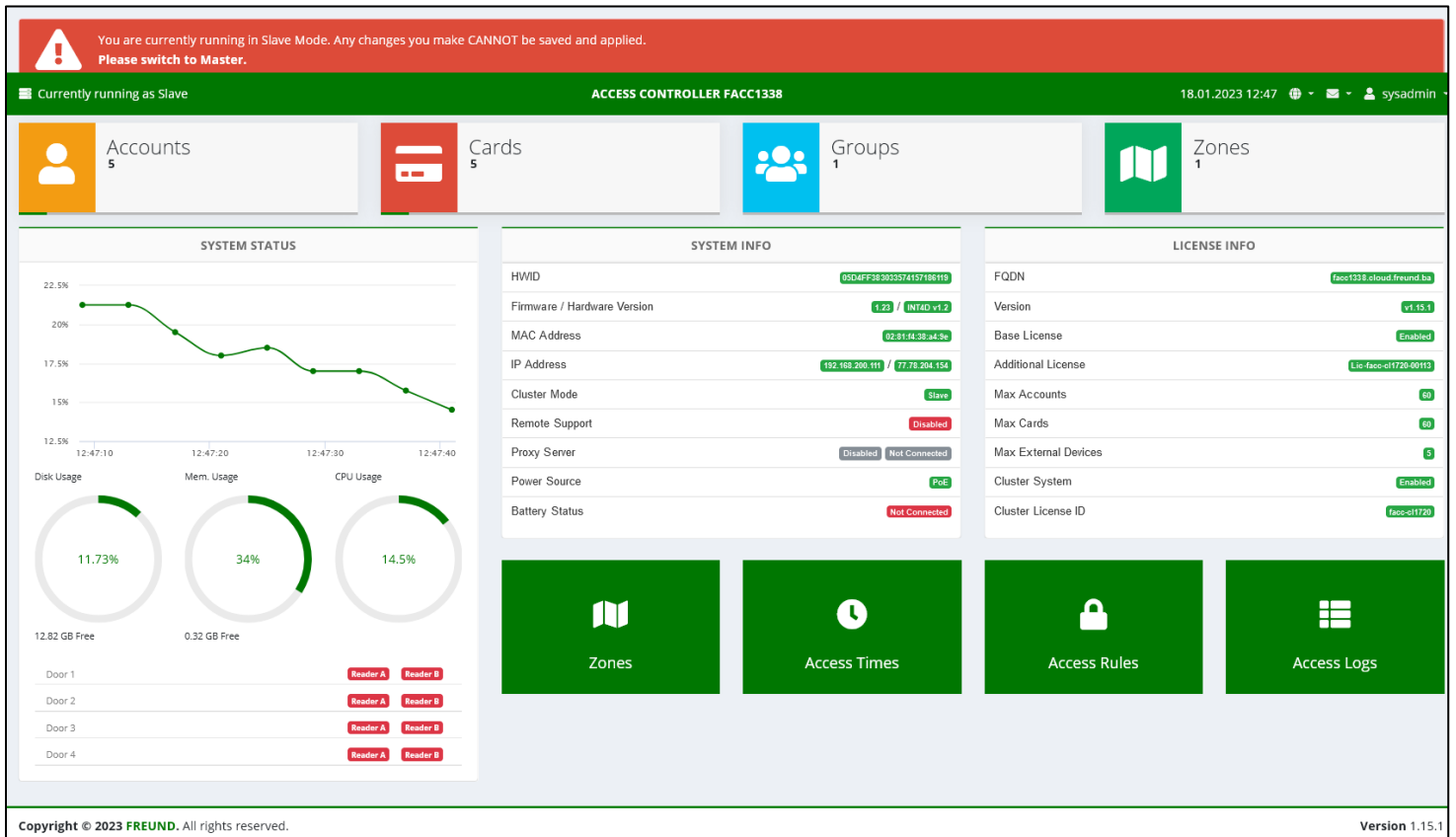
Devices <small>Overview of connected devices</small>								
Type	Device Name ⓘ	Host Name	IP Address	Cluster Info	Version	Doors	Status	Actions
> 	INT4D-186119 <small>This device</small>	facc1338	192.168.200.111 77.78.204.154	Alem Cluster Test 25 S	v1.15.1	Door 1  Door 2  Door 3  Door 4 	OK	
> 	INT4D-207525	facc305	192.168.200.112 77.78.204.154	Alem Cluster Test 25 M	v1.15.1	Door 1  Door 2  Door 3  Door 4 	FAILED	
> 	INT4D-217039	facc332	192.168.200.103 77.78.204.154	Alem Cluster Test 28 S	v1.15.1	Door 1  Door 2  Door 3  Door 4 	OK	

Step 2

Extract license USB stick from **Master controller** and plug it in the USB slot on the **Slave controller** that you want to upgrade to Master controller.

Step 3


In the web interface of **Slave controller**, confirm on the Dashboard that the **Cluster license has been recognized**.




LICENSE INFO	
FQDN	facc1338.cloud.freund.ba
Version	v1.15.1
Base License	Enabled
Additional License	Lic-facc-cl1720-00113
Max Accounts	60
Max Cards	60
Max External Devices	5
Cluster System	Enabled
Cluster License ID	facc-cl1720


Step 4


Go to **Settings – Cluster Settings** and click on **Upgrade to Master**. Confirmation dialogue will appear. Click **Yes** to confirm the upgrade.


 You are currently running in Slave Mode. Any changes you make CANNOT be saved and applied.
Please switch to Master.


Cluster Settings *Cluster Settings control panel*


Create Cluster

Join To Cluster

Unlink From Cluster

Upgrade To Master

Downgrade To Slave

Change Master IP

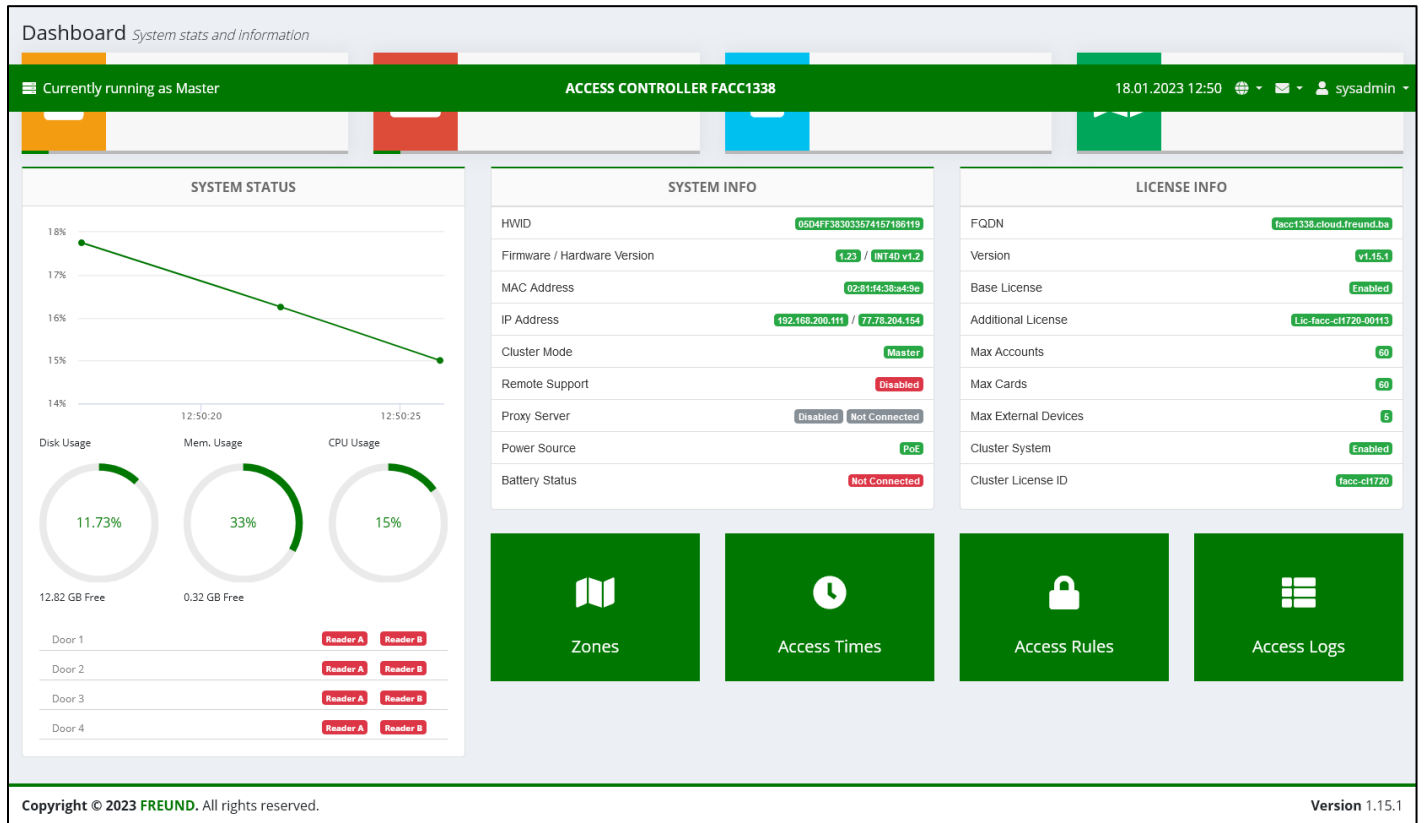
Cluster Info

Name	Alem Cluster Test
Mode	Slave
Master IP	192.168.200.111

NOTE: If the Upgrade to Master button is unavailable, make sure that the USB stick is properly inserted into the correct controller. Alternatively, make sure you are logged in to the correct controller if there are multiple Slave devices in a cluster.

Step 5

Confirm that the upgrade process has been successful. On the Dashboard in top left corner you should see text **Currently running as Master**.











Slave Controller replacement

You can use **IP-INTEGRA Network Configurator** in order to find all the devices on the network.

Step 1

Locate the **master controller** and log in to the web interface. In the menu on the left side of the screen click on **Devices**. The defective controller will display status **Failed**. We recommend not removing the defective controller until the replacement one has been installed and successfully configured. Reason for this is you will have to transfer some of the settings from the old controller to the new one.

Devices <i>Overview of connected devices</i>								
Devices Q Scan Devices								
Type	Device Name ⓘ	Host Name	IP Address	Cluster Info	Version	Doors	Status	Actions
> 	INT4D-125727 <small>This device</small>	facc1338	192.168.200.111 77.78.204.154	Test Cluster 23 M	v1.15.0	Door 1 A B Door 2 A B Door 3 A B Door 4 A B	OK	
> 	INT4D-207525	facc305	192.168.200.112 77.78.204.154	Test Cluster 23 S	v1.15.0	Door 1 A B Door 2 A B Door 3 A B Door 4 A B	FAILED	 
> 	INT4D-217039	facc332	192.168.200.103 77.78.204.154	Test Cluster 23 S	v1.15.0	Door 1 A B Door 2 A B Door 3 A B Door 4 A B	OK	 

Step 2

Install the new slave controller and power it on.

Step 3

On the **master** web interface, click on **Devices** in the left side menu and then click on Scan Devices in the top right corner. Following screen will appear:

Scanned devices									
									Export CSV
#	Host Name	IP Address	Cluster Mode	Cluster Name	Software Version	DB Increment	Door count	Device State	Actions
0	facc1338	192.168.200.111	Master	Test Cluster	v1.15.0	24	4	OK	No actions available.
1	facc332	192.168.200.103	Stand Alone	None	v1.15.0	1	4	OK	➔
2	facc321	192.168.200.131	Stand Alone	None	v1.14.11	1	2	OK	➔

Under **Actions**, click on **Join Device** button. The dialogue asking for confirmation will appear, click on **Join** to confirm.

Join device to cluster

Are you sure you want to join this device into the cluster?

JoinCancel

During the process, the device might restart couple of times and readers may produce beeping sound. This is normal behavior during the cluster joining process.

Step 4

After the new slave controller has been added to the cluster, it will automatically receive user and card information from the master controller. However, you are still required to assign the doors from the new slave controller to the correct zones.

To do this, while logged in on master controller web interface, click on Zones button in the menu on the left side of the screen. Check the zone that the old controller's doors have been assigned to and replace these doors with ones from the new controller.

Edit zone's doors

Assigned Groups

INT4D-125727	Door 1
INT4D-125727	Door 2
INT4D-125727	Door 3
INT4D-125727	Door 4
INT4D-207525	Door 1
INT4D-207525	Door 2
INT4D-207525	Door 3
INT4D-207525	Door 4

Unassigned Groups

INT4D-217039	Door 1	+
INT4D-217039	Door 2	+
INT4D-217039	Door 3	+
INT4D-217039	Door 4	+

Save Changes

Cancel

NOTE: If you have been using custom name doors, you will have to rename the doors of the new controller as they will have the default ones. This can be done by clicking on **Devices** in the menu, and then clicking on **Edit door** button located under **Actions** tab.

Step 5

To remove the defective controller from cluster, in the **Devices** section click on the **Remove device from cluster** button marked in the picture below located under **Actions** tab.

Devices <i>Overview of connected devices</i>								
Devices Q Scan Devices								
Type	Device Name ⓘ	Host Name	IP Address	Cluster Info	Version	Doors	Status	Actions
>	INT4D-125727 This device	facc1338	192.168.200.111	Test Cluster 23 M	v1.15.0	Door 1 A B	OK	
			77.78.204.154			Door 2 A B		
>	INT4D-207525	facc305	192.168.200.112	Test Cluster 23 S	v1.15.0	Door 1 A B	FAILED	
			77.78.204.154			Door 2 A B		
>	INT4D-217039	facc332	192.168.200.103	Test Cluster 23 S	v1.15.0	Door 3 A B	OK	
			77.78.204.154			Door 4 A B		