SharkWare User Manual

February 2025

Overview

SHARKWARE

ADVANCED AMPLIFIER CONTROL SOFTWARE

Developed in part based on integrator and customer feedback, Sharkware allows integrators to work both in offline design and online mode on a systems amplification configuration to ensure a more seamless, accessible, and flexible user experience with all LEA Professional Connect Series amplifiers.

Free to download and available for both Windows and Mac, Sharkware includes features such as amplifier grouping, offline design, granular user access control levels, locked speaker tunings, and a graphical EQ.

Sharkware also incorporates key features from LEA Professional's existing Web UI tool, allowing users to monitor the status of every amplifier connected to the network as well as the status and performance of individual channels. In addition, the software gives users the ability to view and adjust channel settings such as input settings, signal generator, crossover, equalizer, limiter, and load monitoring for all LEA Professional Connect Series amplifiers.

Offline Design Mode
Design your system from 1 to 1000 amplifiers without physically being connected to an amp

Grouping
Group amplifier channels together to control and monitor by group

User Access Control
Role Based restriction to lock users out of certain parameters. Roles can have Read/Write, Read Only, or No Access for each parameter

Locked Speaker Tunings
Lock out your speaker tuning parameters so nobody can see or change your proprietary speaker tuning information

Graphical EQ
Drag and Drop your EQ parameters in our new graphical EQ window

Save & Load Design Files
Save and Load Design files for your entire system

SharkWare V1.3.1 Release Notes

- **Added Computer Network Interface Information**
  - **Click on the ⚙ then Network to see the Computer's Networking information**
- **Included support for the following LEA Products:**
  - **-ADSP Models (Advanced DSP)**
  - **- G Models (Government Models with WiFi Removed)**
  - **CDS Cinema Digital Series**
  - **Half Rack Models**
  - **Connect Series 3004 & 3004D**
- **Includes input mixing functionality on all products**
- **Spanish and Chinese language options now available**

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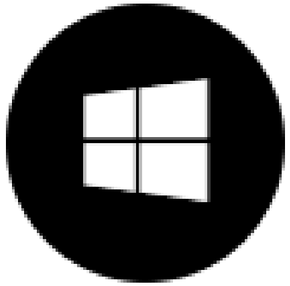
SharkWare Minimum Requirements



- Windows 10+, quad core CPU, 8GB RAM, 200MB free space

- MacOS 10.14+, quad core CPU, 8GB RAM, 200MB free space

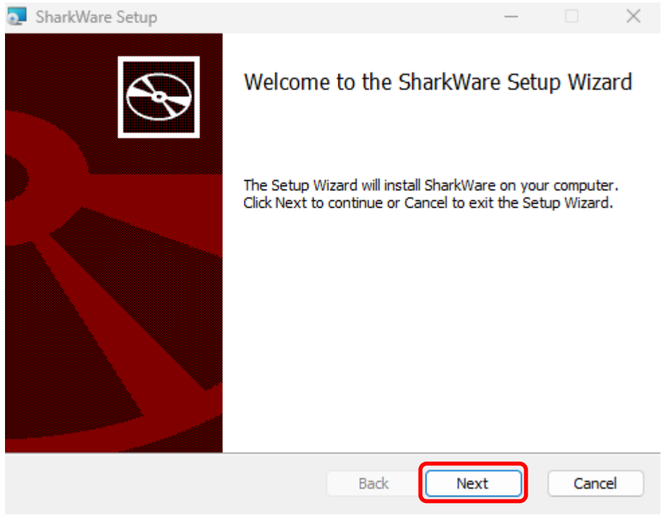
Windows Installation

Installation Steps

1. Launch the SharkWare Windows Installer.
2. Click “Next” in the SharkWare Setup Wizard.
3. Click “Install” to begin the installation process.
4. Enter the desired destination of the installation and click “Next”.
5. When the installation is complete click “Finish”.

1

2



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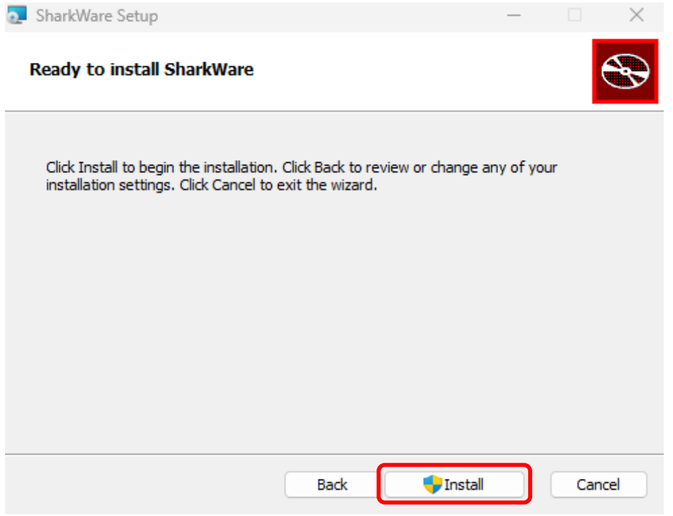

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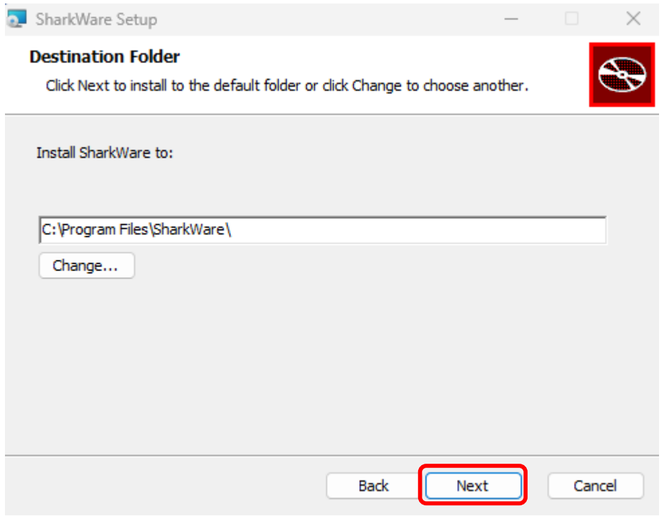

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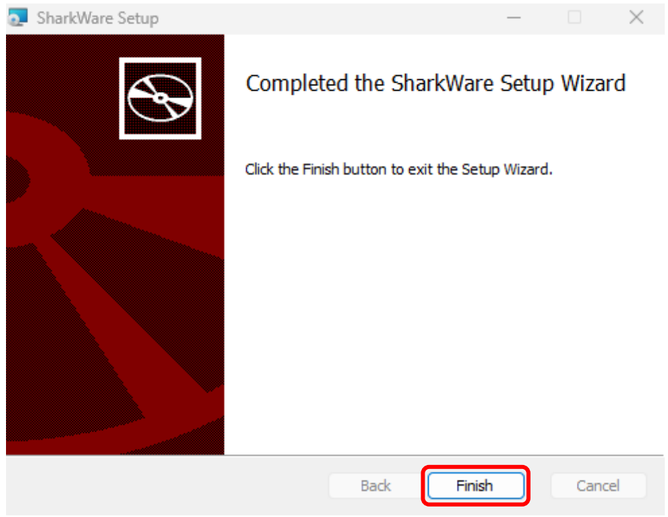
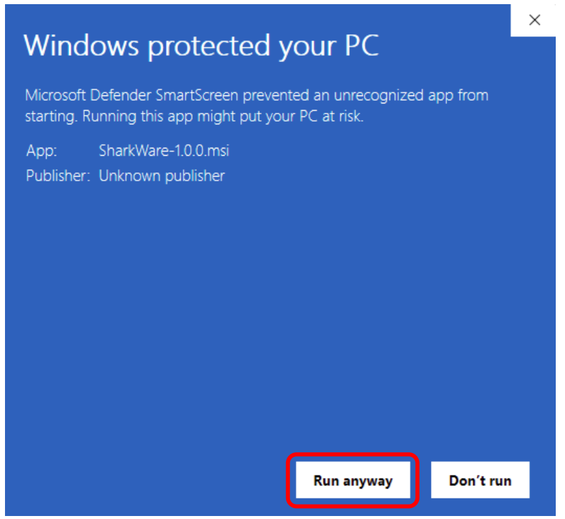


NOTE:
During the installation process you may receive this notification, continue by clicking “Run anyway”.



Mac Installation

Installation Steps

1. Click the SharkWare disk image.
2. Drag and drop the SharkWare logo into the Applications folder.

1

2

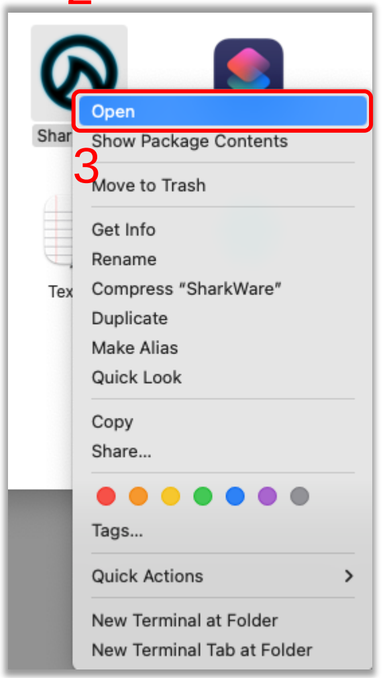
NOTE:

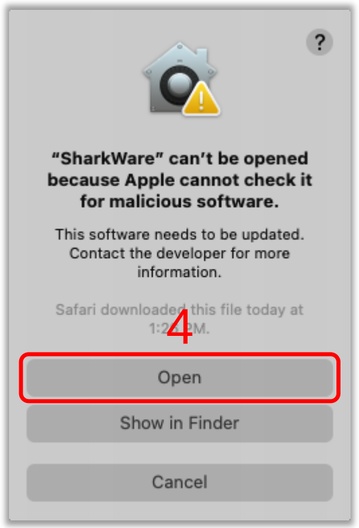
While opening the application for the first time you will receive a notification stating: “SharkWare” can’t be opened because Apple cannot check it for malicious software, follow the steps below to resolve this issue.

These steps are only required the first time opening the application.

1. Click “Show in Finder”
2. In Finder right click on “SharkWare”
3. Click “Open” from the drop-down menu
4. Click “Open” from the new dialog box

2





Firmware Version Note

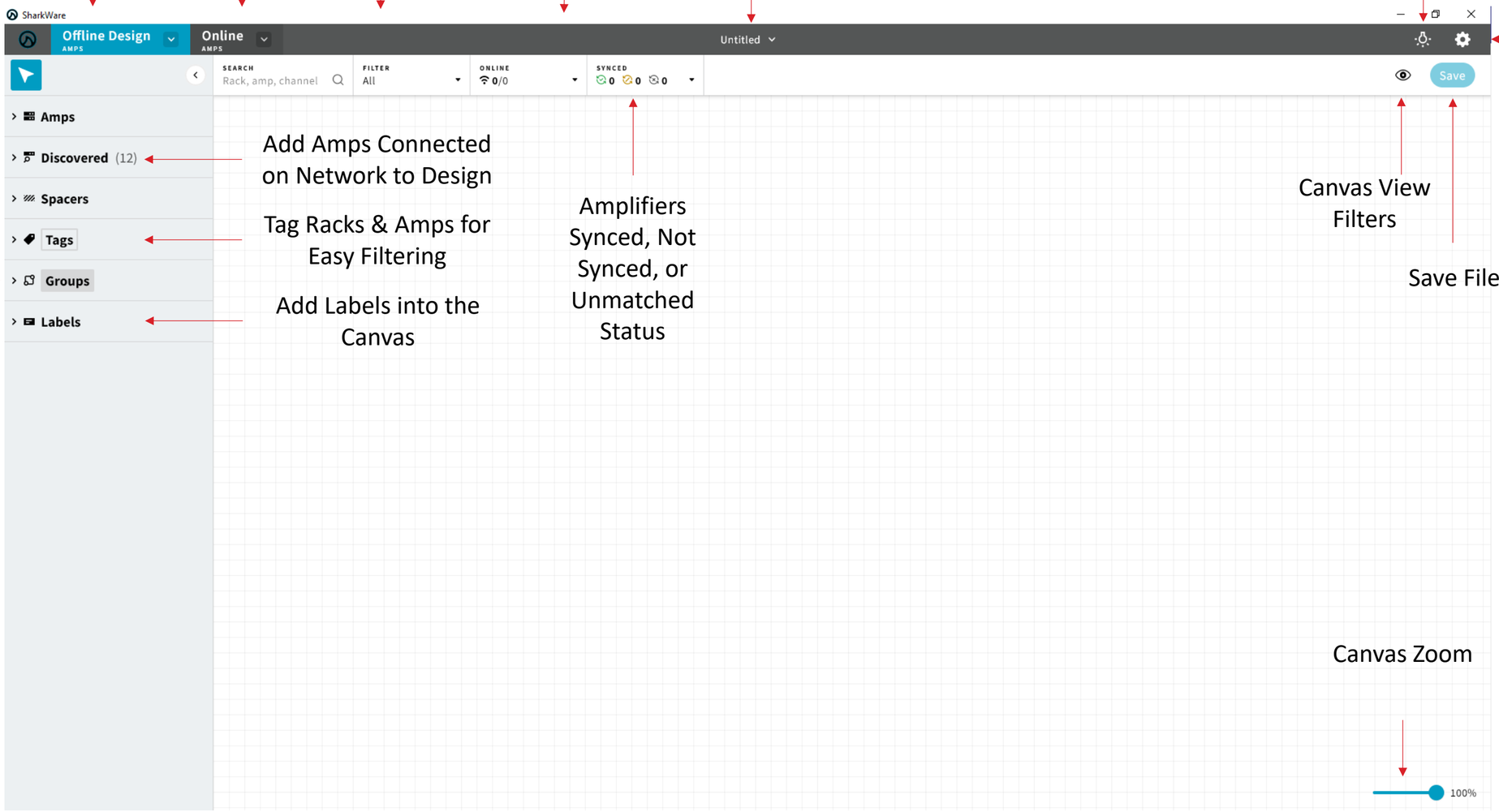
In order to utilize all the features in Sharkware, the LEA Connect Series amplifier must have firmware version 4.0.0.0 or higher.

To download the latest version of firmware, please follow this link:

https://leaprofessional.com/downloads/

If you have a version prior to 4.0.0.0, you may not be able to use all features in Sharkware with your LEA Connect Series Amplifiers.

Getting Started



Offline System Design

Offline System Design allows you to design your system file without physically being connected to any LEA Amplifiers. You can design the entire system, save the file, then “push” the entire system design file to the amps once you have connected to them.

Step 1:

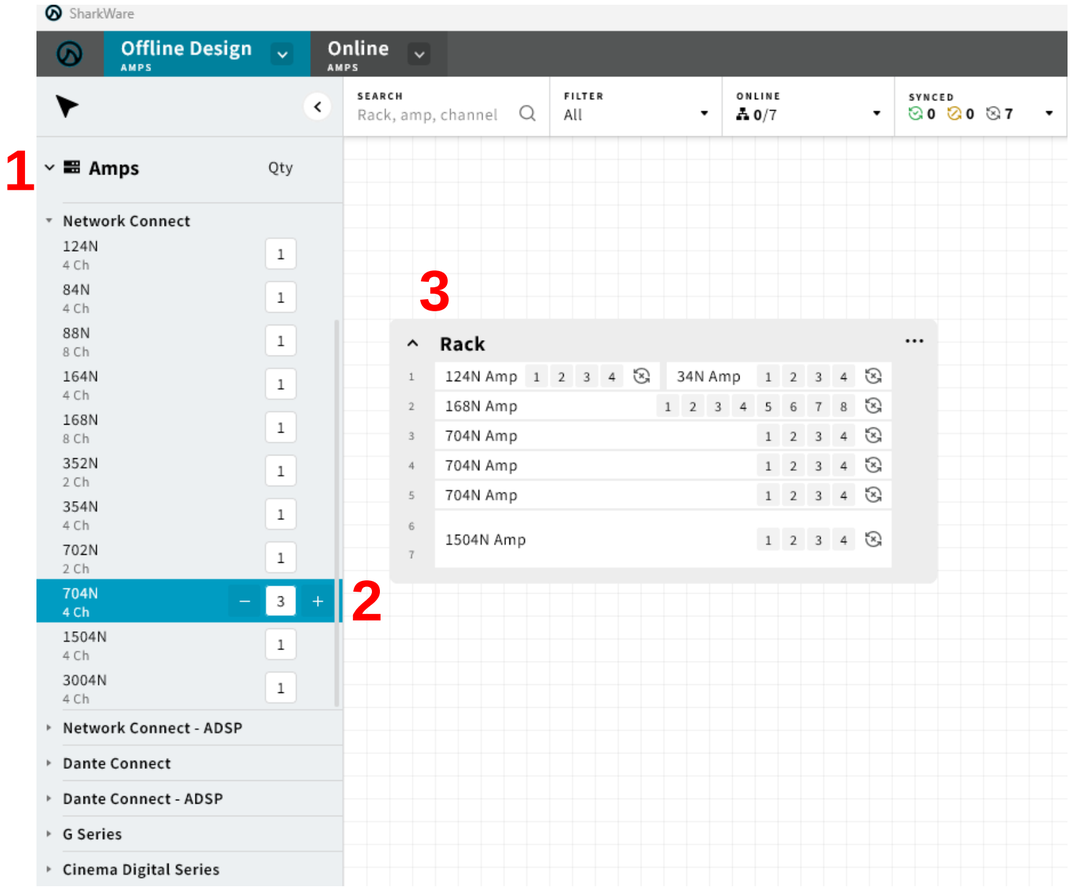
- Click on > Amps
- Click on the desired product line.

Step 2:

- Select the quantity of the 1st amp you will be adding to the design.

Step 3:

- With the Amp Model and Qty highlighted in Blue, now click where you want to drop these amps into a rack on the canvas



Adding More or Different Model Amps

You can add more or different amp models into the venue.

Step 1:

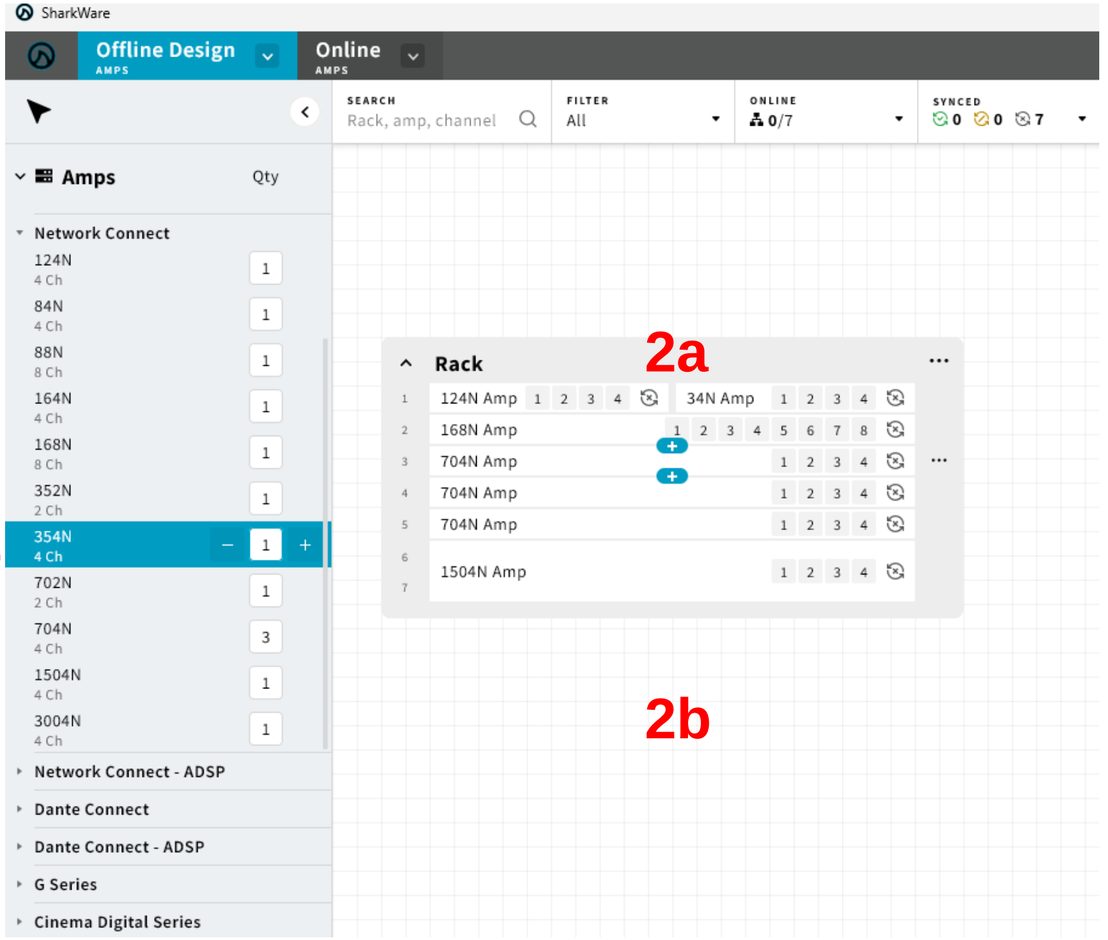
- Select the quantity of the 2nd amp you will be adding to the design.

Step 2a:

- If you are adding to an existing rack, hover the rack and your will see + above and below the amp in the rack. Click the + to add them above or below

Step 2b:

- If you want to add the new amps in a separate rack, simply click on the design canvas



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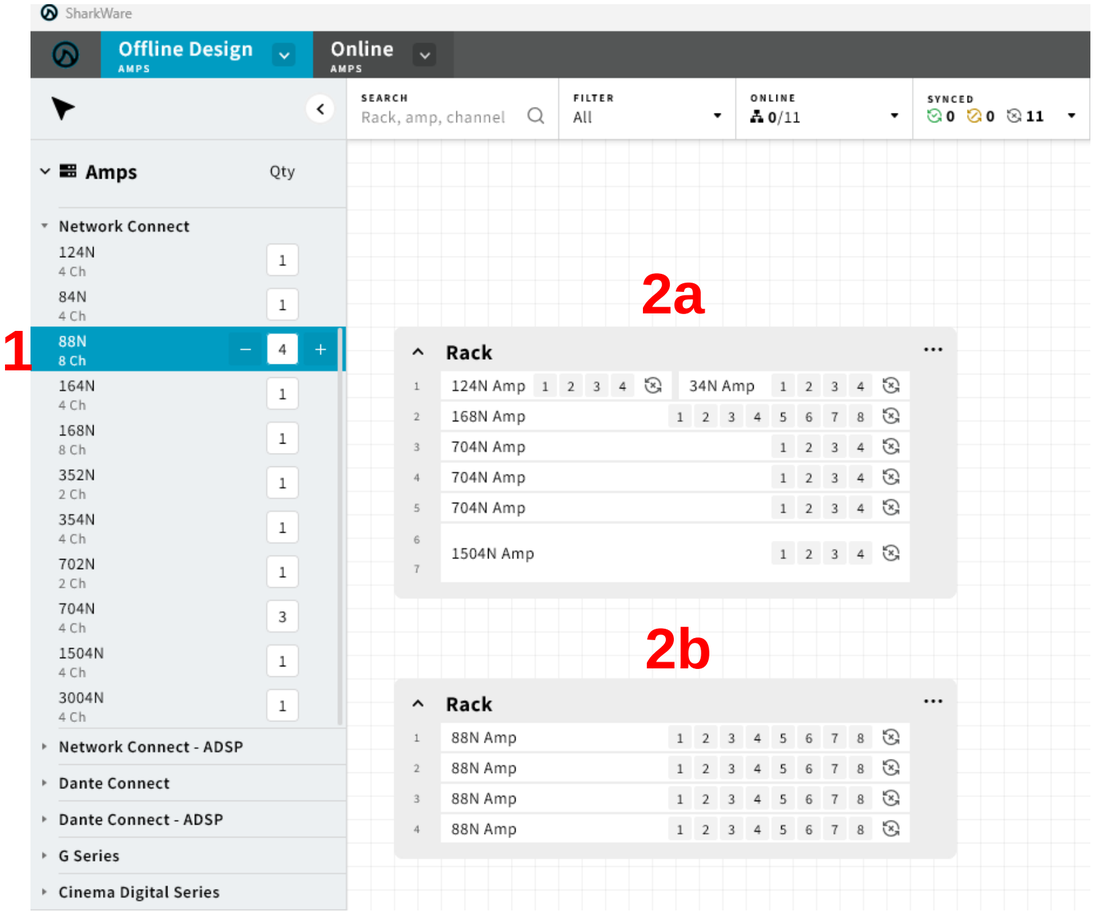


Rename Amp Racks

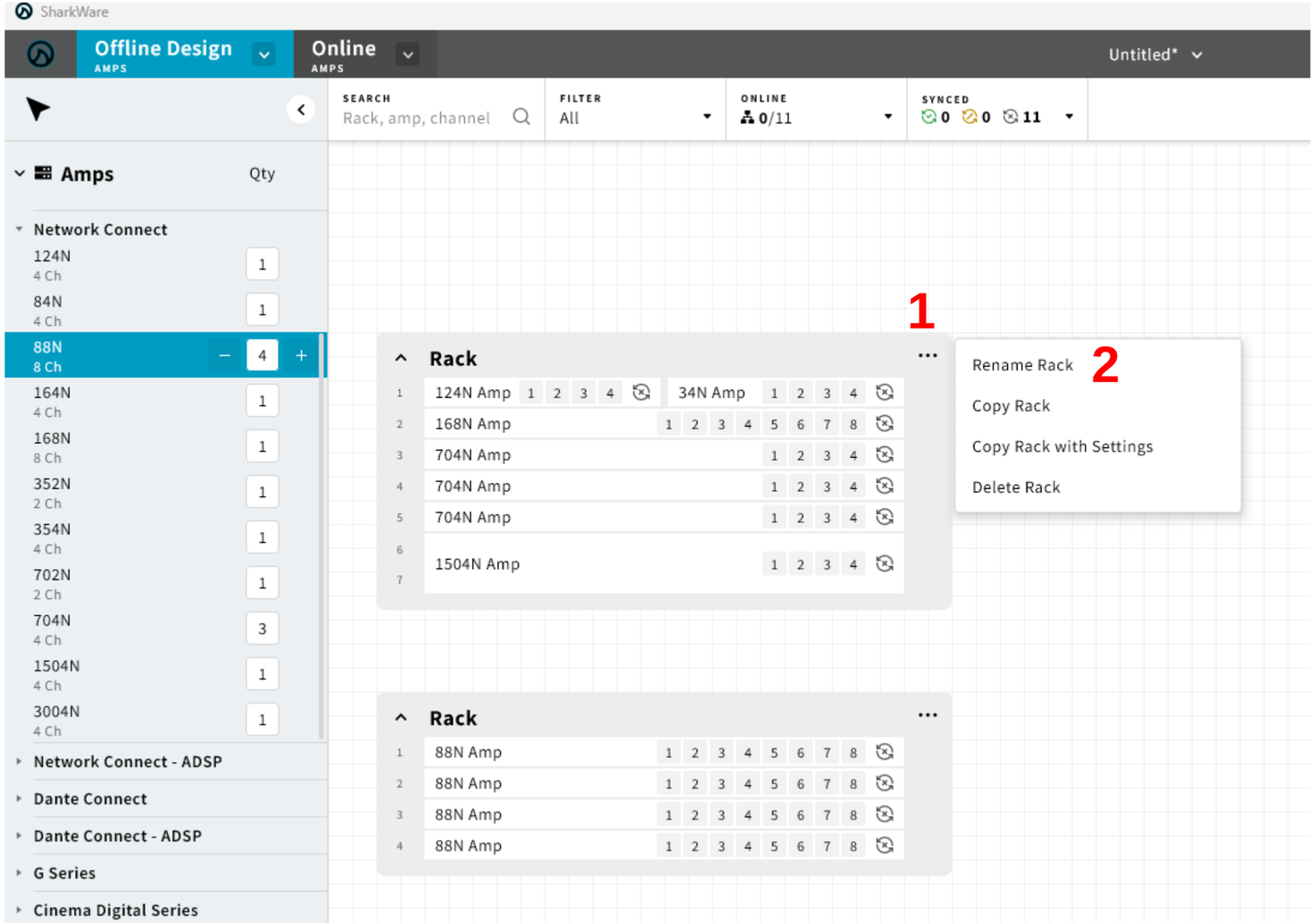
To better organize your system, you can name amp racks

Step 1:

- Click on the three dots next to the amp rack (…)

Step 2:

- Click ‘Rename Rack’ and type anything you want to rename the rack to and click Save



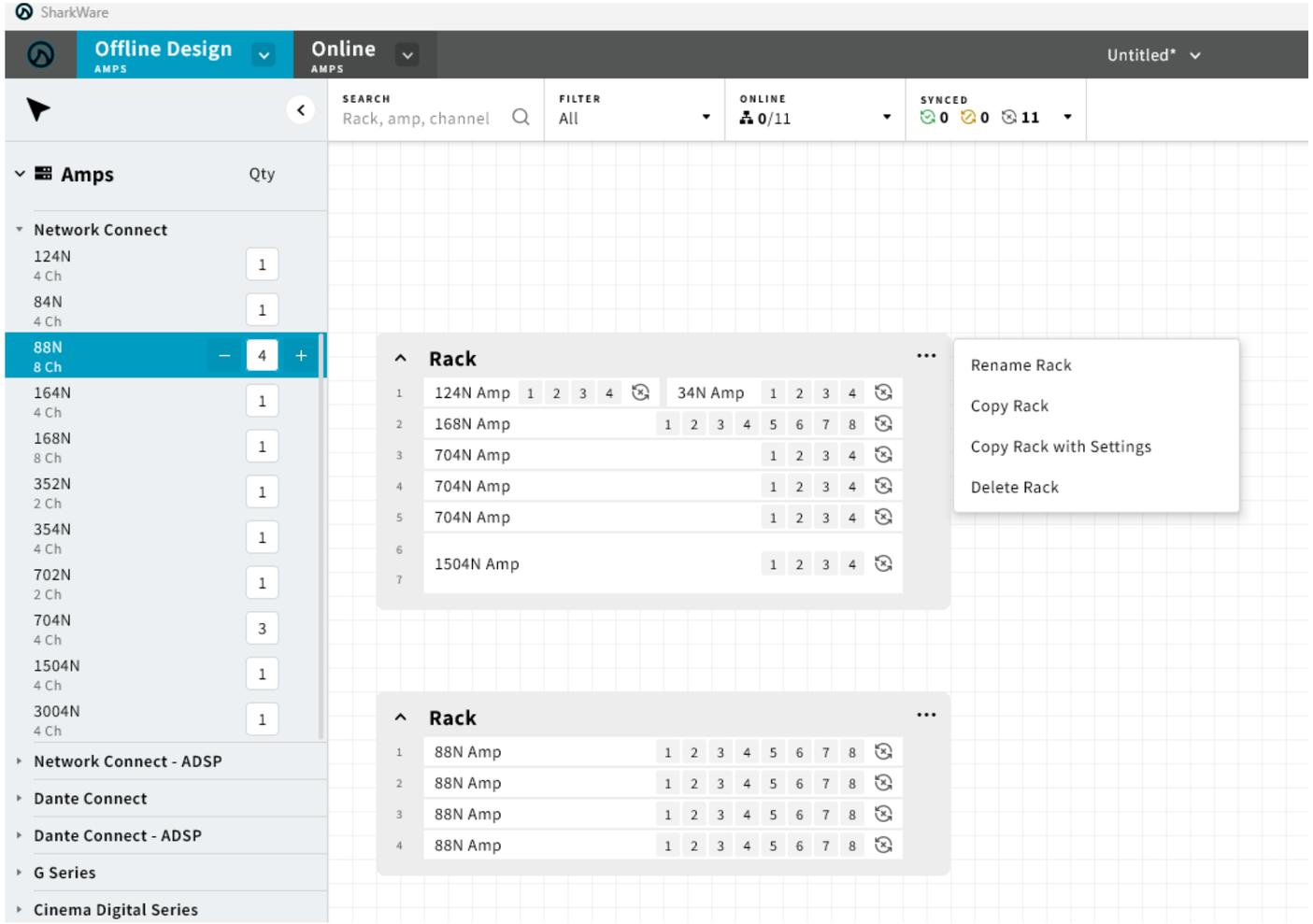
Copy a Rack

There are two ways to copy a rack

- Copy a Rack
  - This will copy the rack models so that you can add an identical rack into the design canvas. NOTE: The amplifiers will be copied into the design with Factory Default Settings
- Copy Rack with Settings
  - This will copy the rack models AND all of the current amplifier settings of the rack into the design canvas.

Once you've chosen how you want to copy the rack, simply click in the design canvas where you want the copied rack placed

- Delete Rack is self explanatory



Offline System Design - Spacers

Spacers

Spacers allow you to visually represent the rack with other equipment.

Step 1:

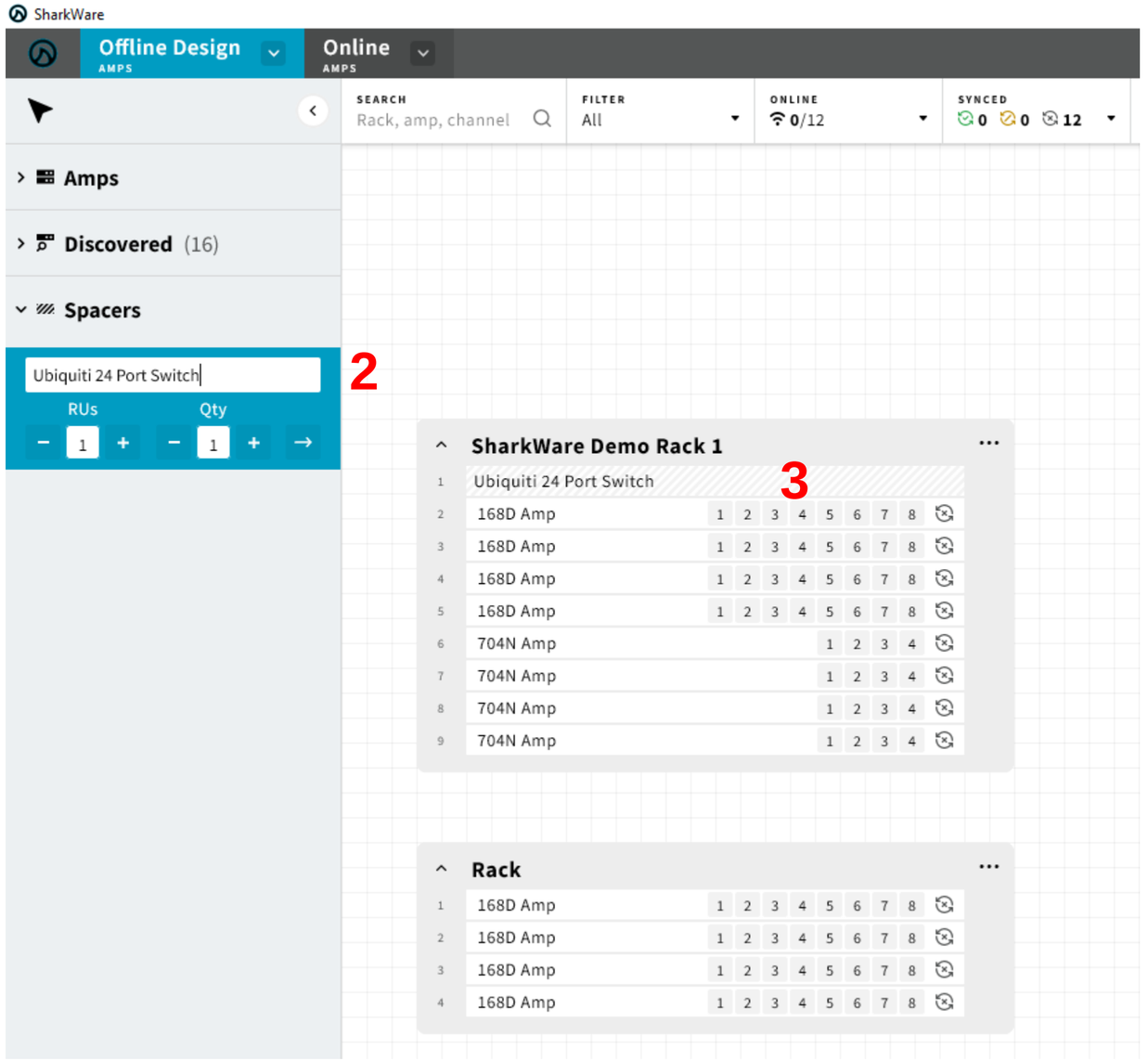
- Click on ‘Spacers’

Step 2:

- Name your spacer, select how many rack spaces it is

Step 3:

- Hover over where in the rack you want to place this spacer and click the ‘+’



Offline System Design - Tags

Tags

Tags allows for quick filtering of Amp Racks and Amps so you can easily see which amps are tagged to a certain area

Step 1:

- Click on ‘Tags’

Step 2:

- Click on the ‘+’ Next to Tags

Step 3:

- Name the Tag and select the color you want the Tag to be

Step 4:

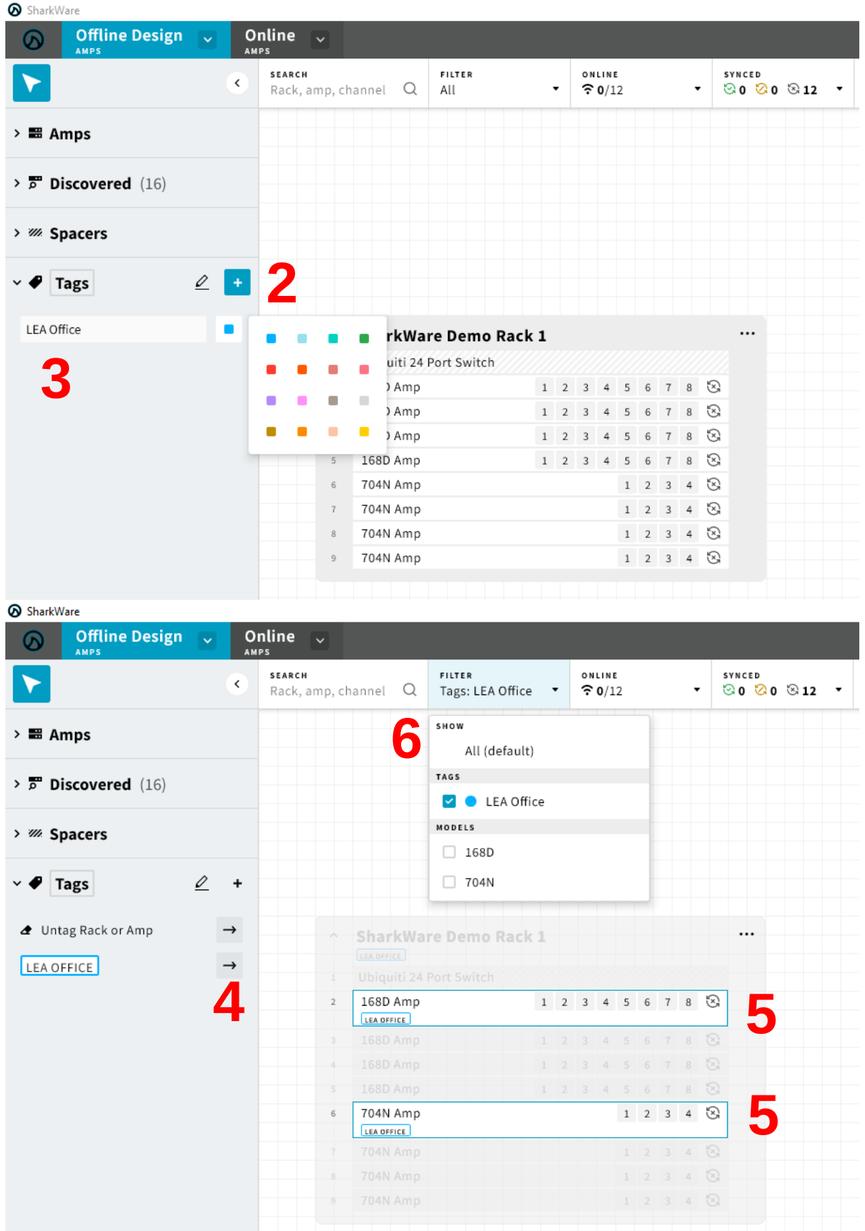
- Click on →

Step 5:

- Now Click on Amp Racks and/or amps you want to Tag

Step 6:

- Now up in Filters, you can Filter by what is Tagged



Offline System Design - Groups

Groups

Groups allows you to group any amplifier channels together for control, monitoring, and configuration of that group

Step 1:

- Click on ‘Group’

Step 2:

- Click on the ‘+’ Next to Groups

Step 3:

- Name the Group and select the color you want the Group to be

Step 4:

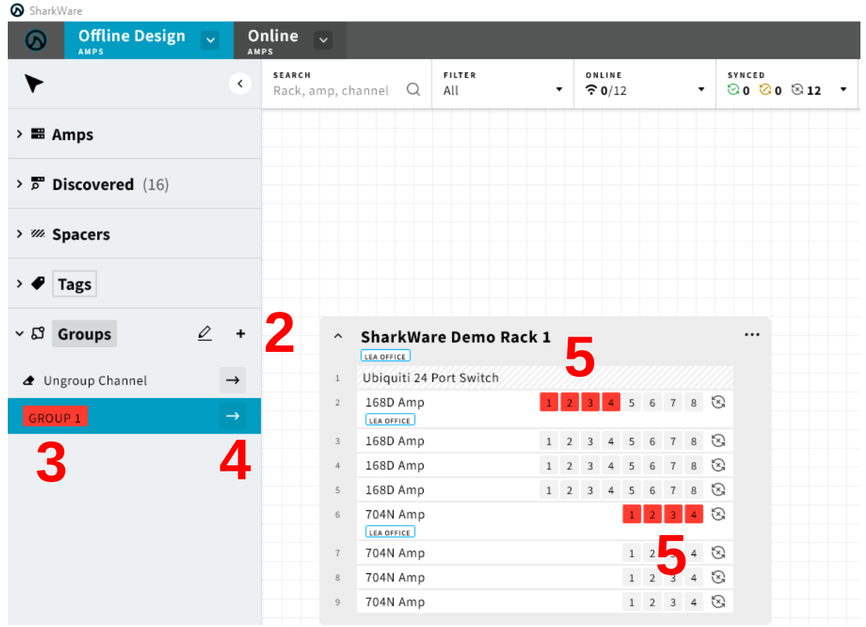
- Click on →

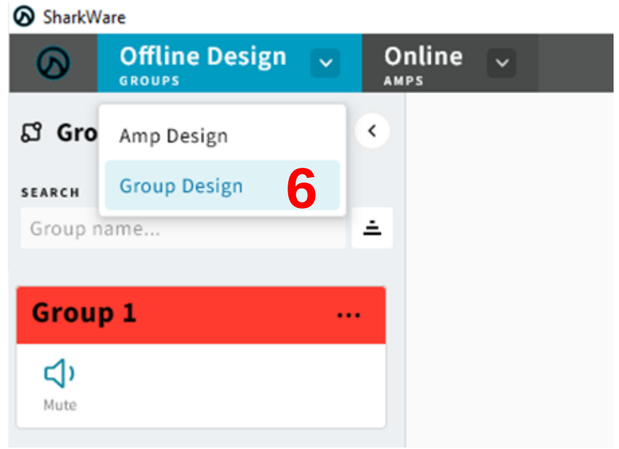
Step 5:

- Now Click on Amp Channels you want to Group

Step 6:

- Now go up to Offline Design and select Group Design. You now have a Group for Control, Monitoring, and Configuration





Offline System Design – Multiple Groups

Assigning Channels to Multiple Groups

You can also assign amp channels to multiple groups

Step 1:

- Click on ‘Group’

Step 2:

- Click on the ‘+’ Next to Groups

Step 3:

- Name the second Group and select the color you want the Group to be

Step 4:

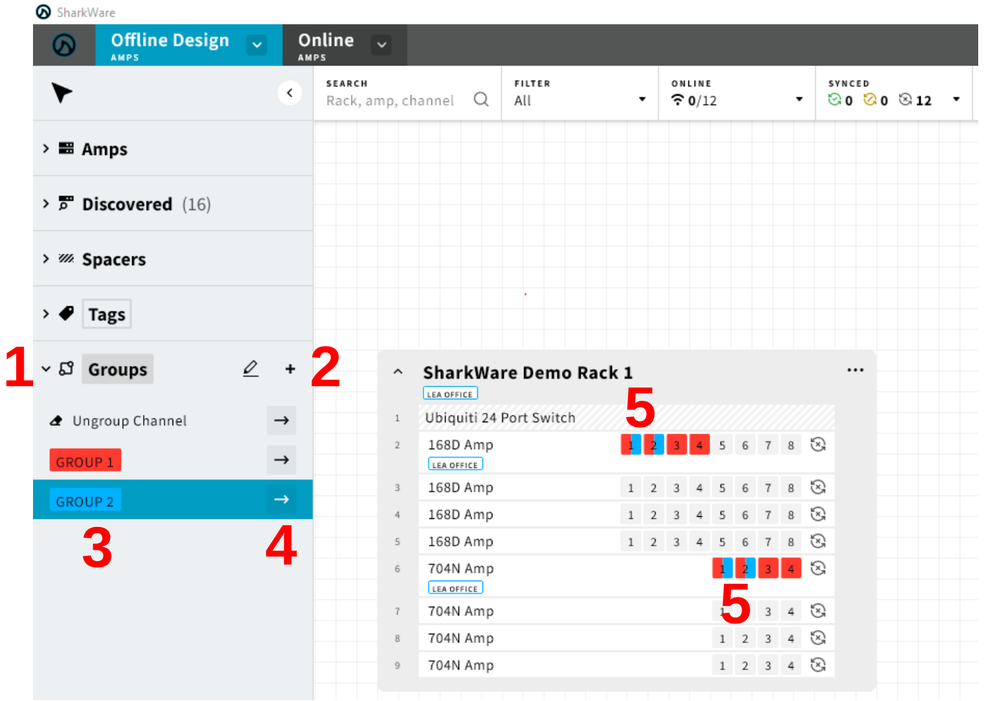
- Click on →

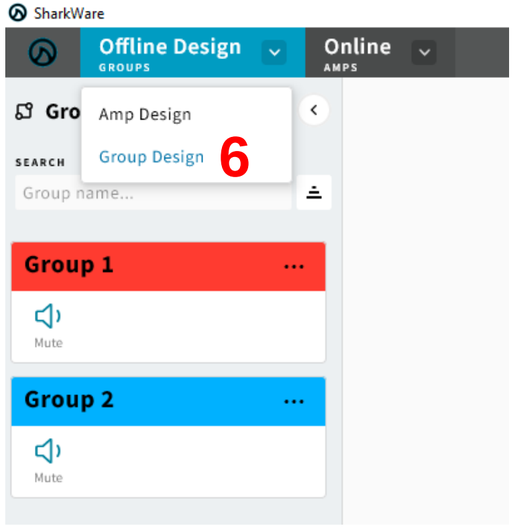
Step 5:

- Now Click on Amp Channels you want to Group

Step 6:

- Now go up to Offline Design and select Group Design. You now have a Group for Control, Monitoring, and Configuration





Offline System Design – Labels

Labels

Labels allows you to insert text anywhere in the design canvas. Think of these as notes for the design

Step 1:

- Click on ‘Labels’

Step 2:

- Click on the → next to ‘Add Label”

Step 3:

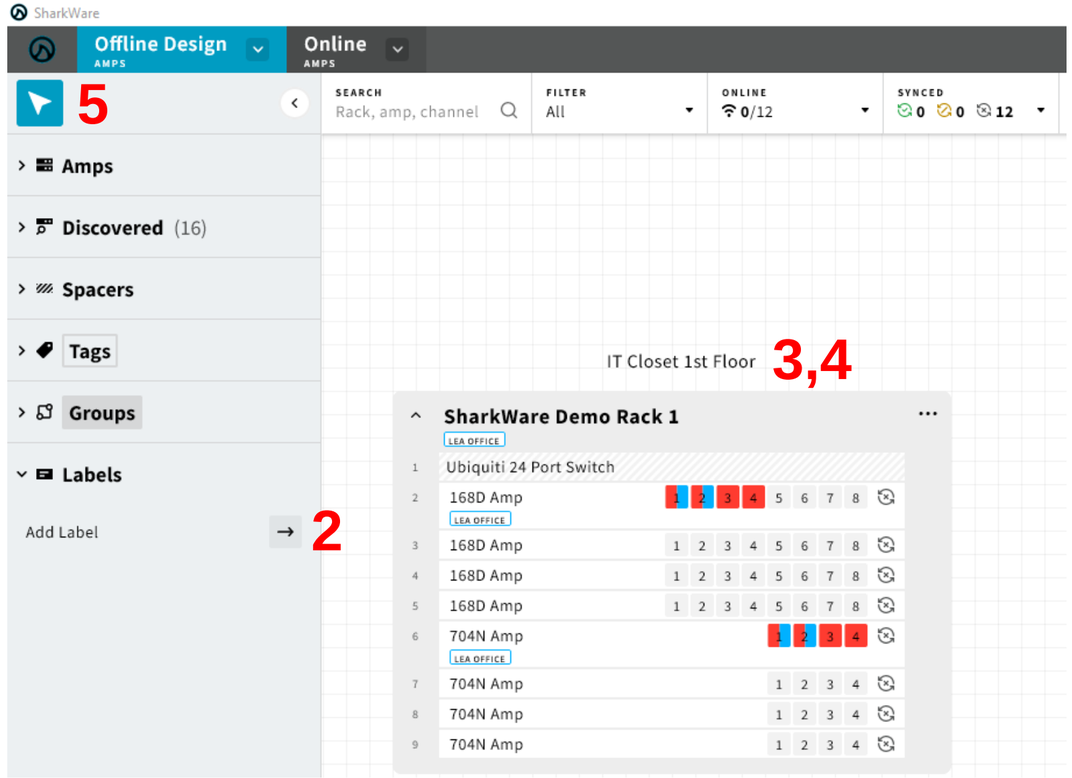
- Click into the design canvas

Step 4:

- Click on the label and type your note

Step 5:

- Now Click the in the top left and move the Label wherever you want



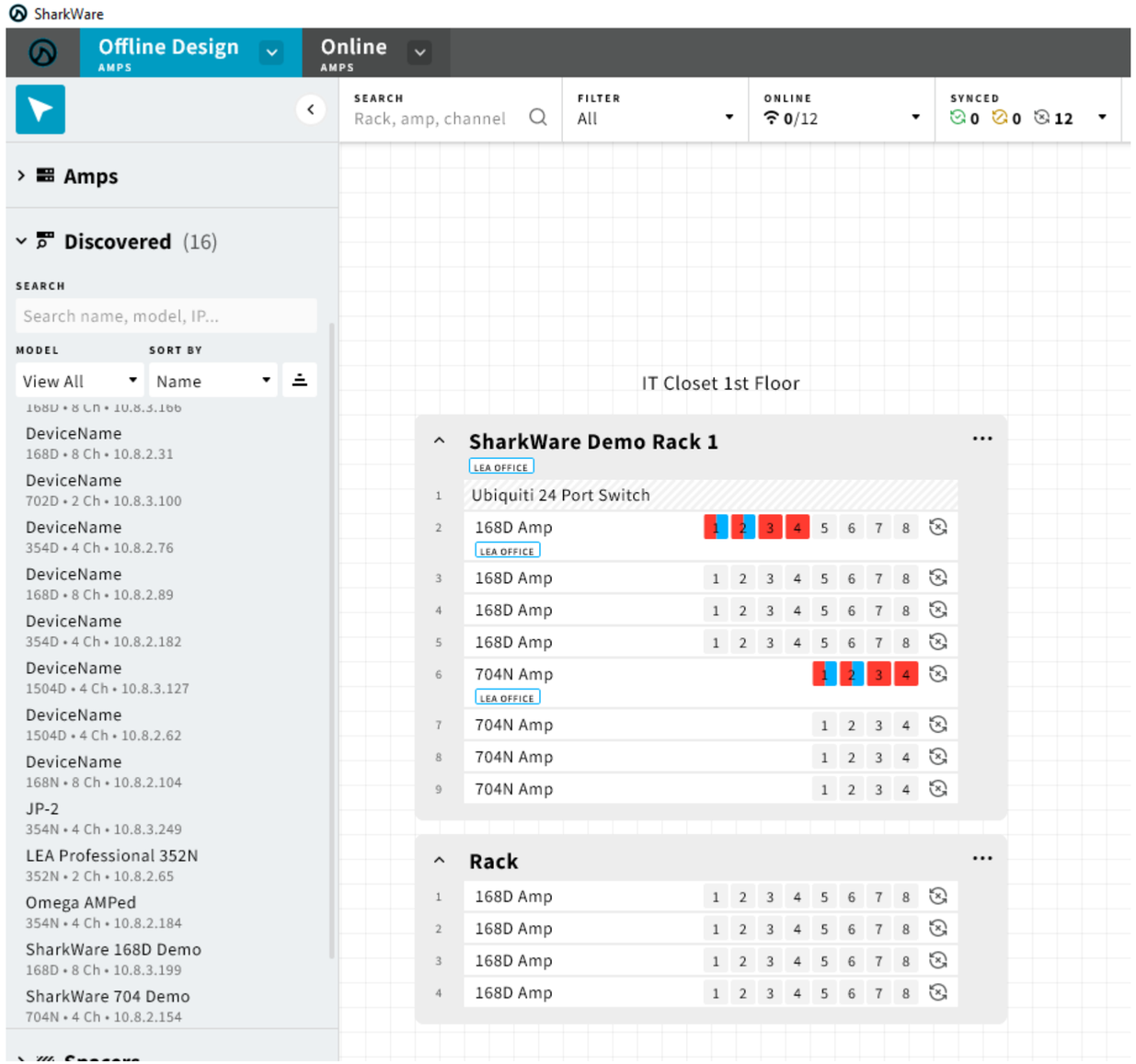
Offline System Design – Discovered

Discovered

If you have amplifiers on the same network at your computer, these amps will show up in the ‘Discovered’ section. There are 2 ways to add Discovered Amps into your design.

- **Assign Discovered Amps to Existing Offline Design Rack**

- **Add Discovered Amps to New Rack or Add them to Offline Design Rack**



Offline System Design – Discovered

Assign Discovered Amp to Existing Offline Design Rack

Step 1:

- Click on ‘Discovered’

Step 2:

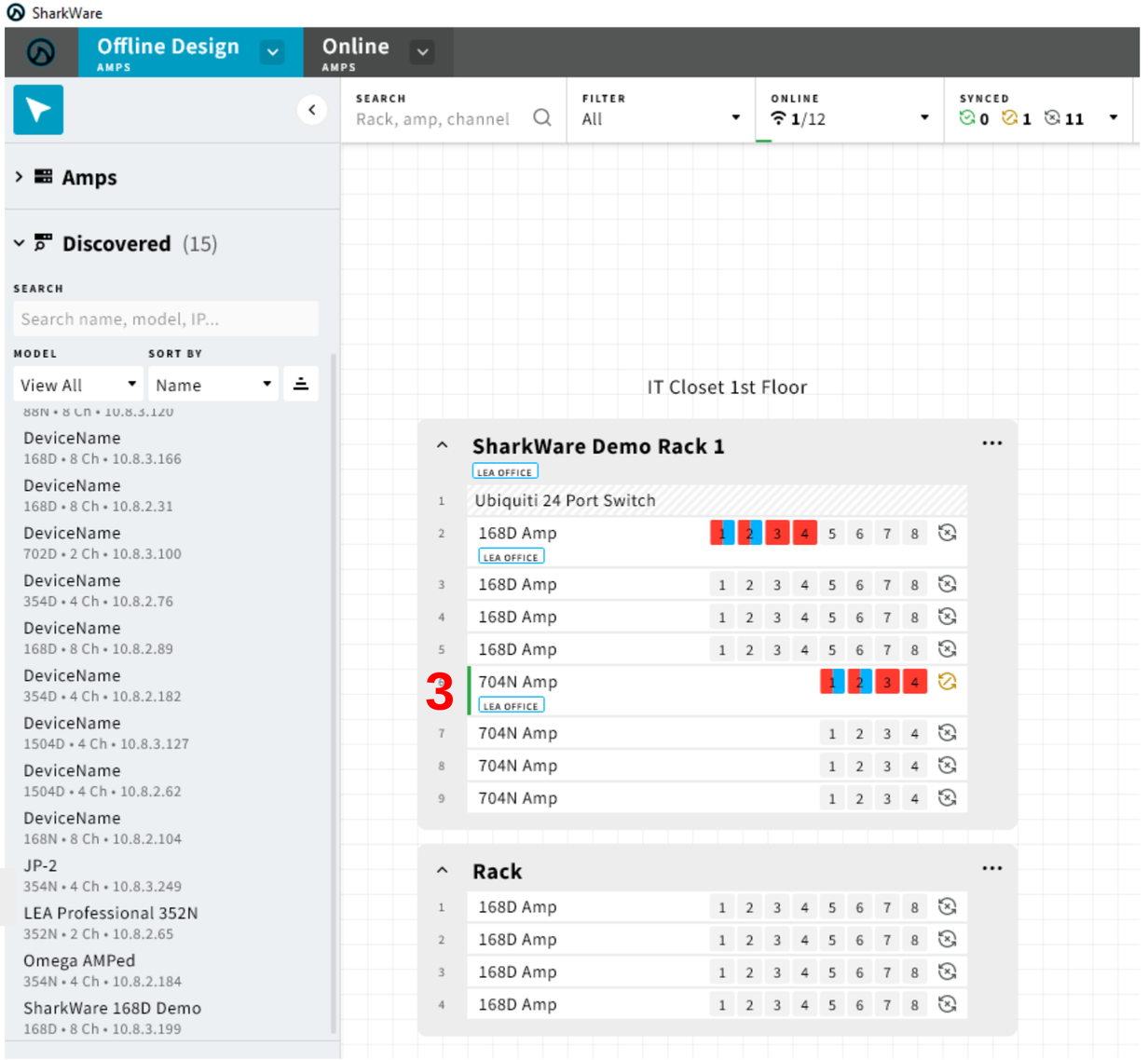
- Click on amp you want to add to Existing Offline Design Rack

Step 3:

- Click on the amp in the Rack where you want this amp to go

NOTE:

Once complete, you will see the amp has a green stripe next to it indicating it is now associated with that amp in the rack. It also disappears from the ‘Discovered’ section and now shows up at the top under ‘Online’



Offline System Design – Discovered

Add Discovered Amps to New Offline Design Rack

Step 1:

- Click on ‘Discovered’

Step 2:

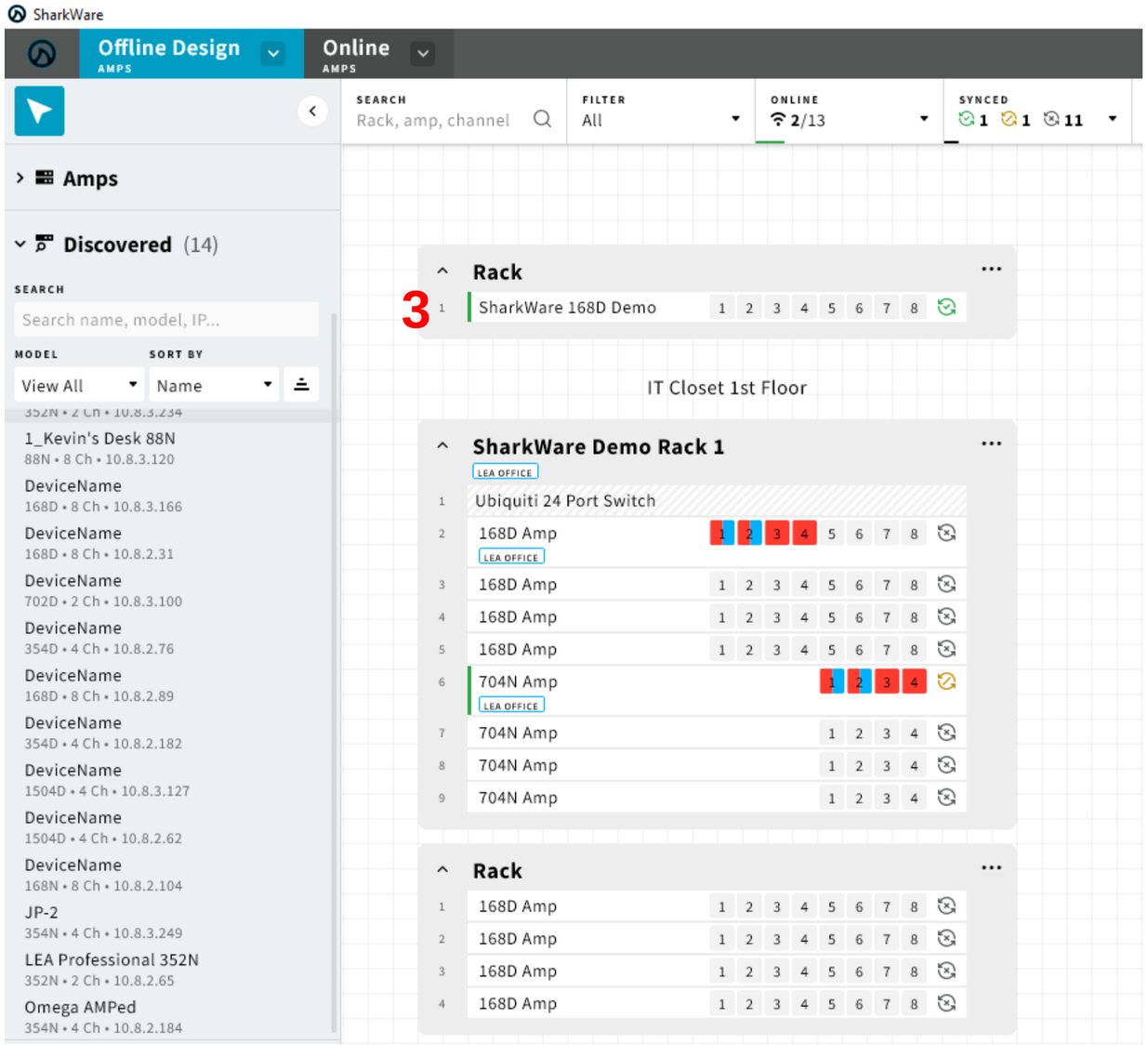
- Click on amp you want to add to Existing Offline Design Rack

Step 3:

- Click on the Design Canvas and it will place this Discovered amplifier into the design in it’s own rack

NOTE:

Once complete, you will see the amp has a green stripe next to it indicating it is now associated with that amp in the rack. It also disappears from the ‘Discovered’ section and now shows up at the top under ‘Online’



Offline System Design – Discovered

Add Discovered Amps to Existing Offline Design Rack

Step 1:

- Click on ‘Discovered’

Step 2:

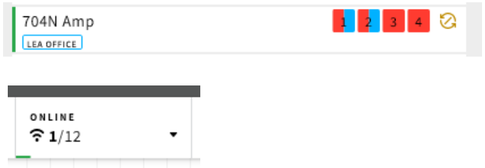
- Click on amp you want to add to Existing Offline Design Rack

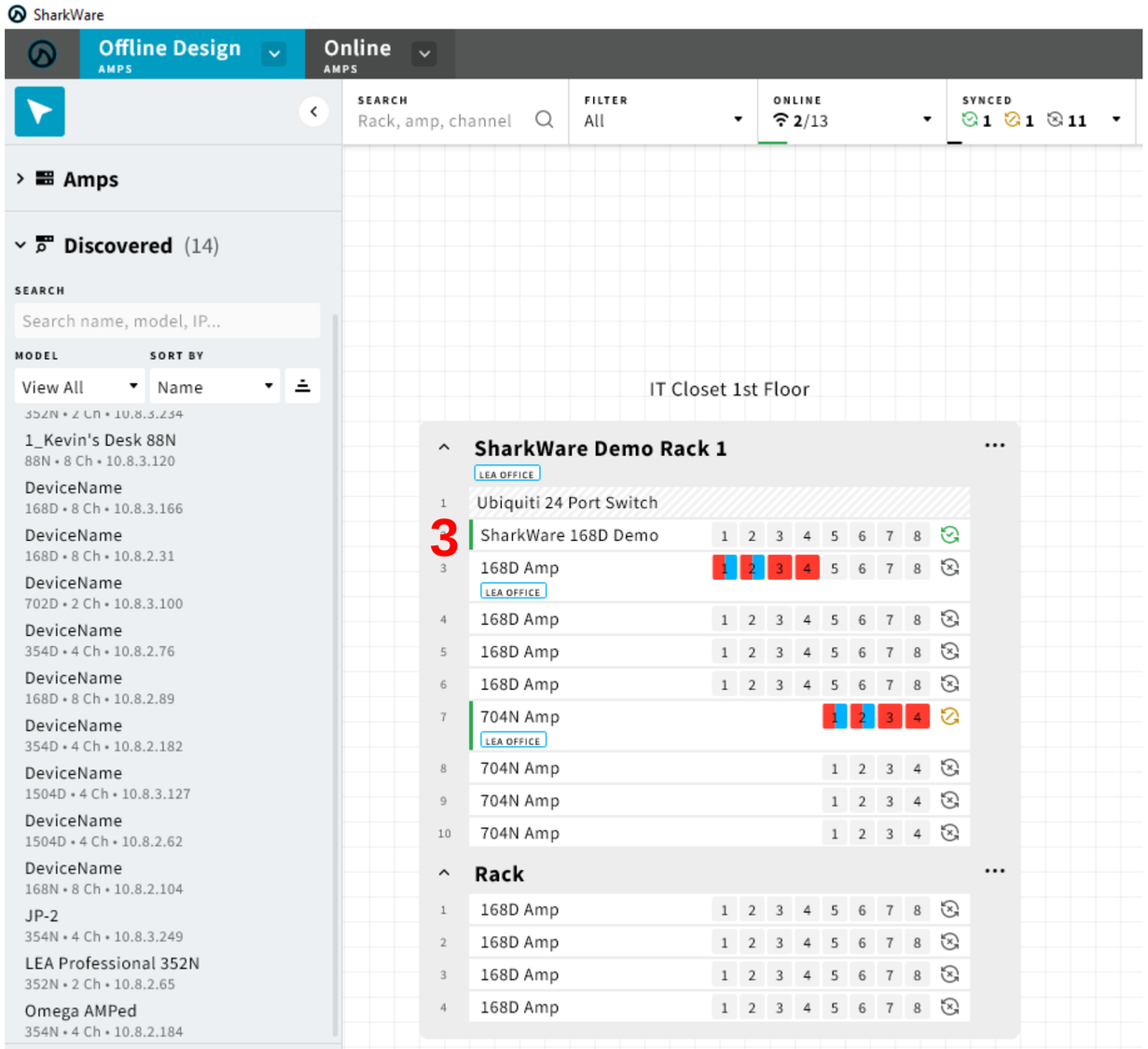
Step 3:

- Hover over the amp rack until you see the ‘+’. Click on the ‘+’ and it will **add** this amp into the existing design.

NOTE:

Once complete, you will see the amp has a green stripe next to it indicating it is now associated with that amp in the rack. It also disappears from the ‘Discovered’ section and now shows up at the top under ‘Online’





Offline System Design – Amp Configuration

Amp Configuration

Step 1:

- Click on ▶ in the top left

Step 2:

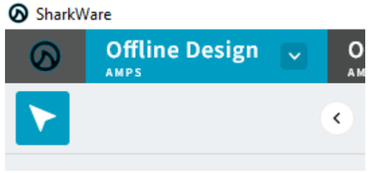
- Double Click on the amp you want to configure in the Design Canvas

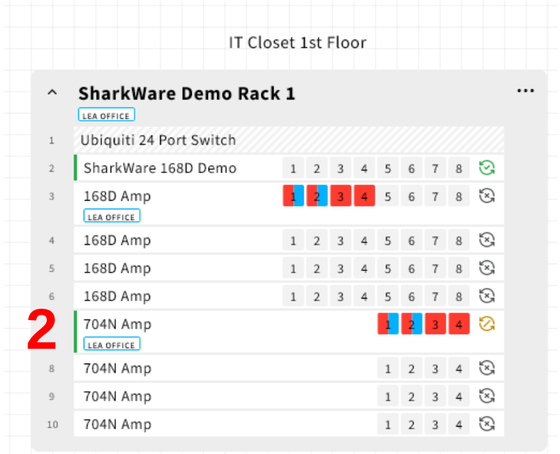
Step 3:

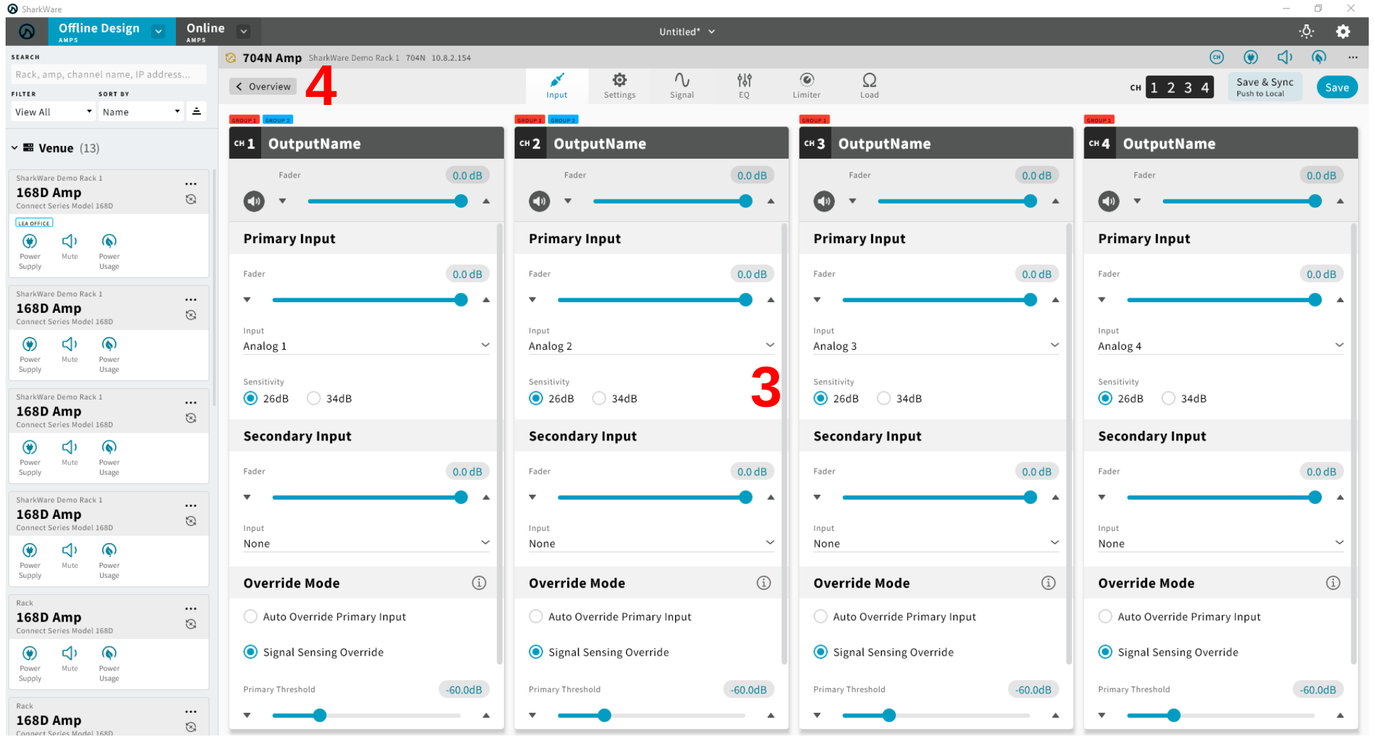
- Configure the amp

Step 4:

- Click < Overview in the top left to get back to the design canvas







Offline System Design – Group Configuration

Group Configuration

Step 1:

- Click on the ⌄ next to Offline Design and select ‘Group Design’

Step 2:

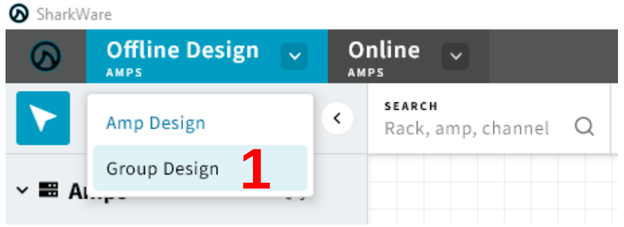
- Select which Group you would like to configure

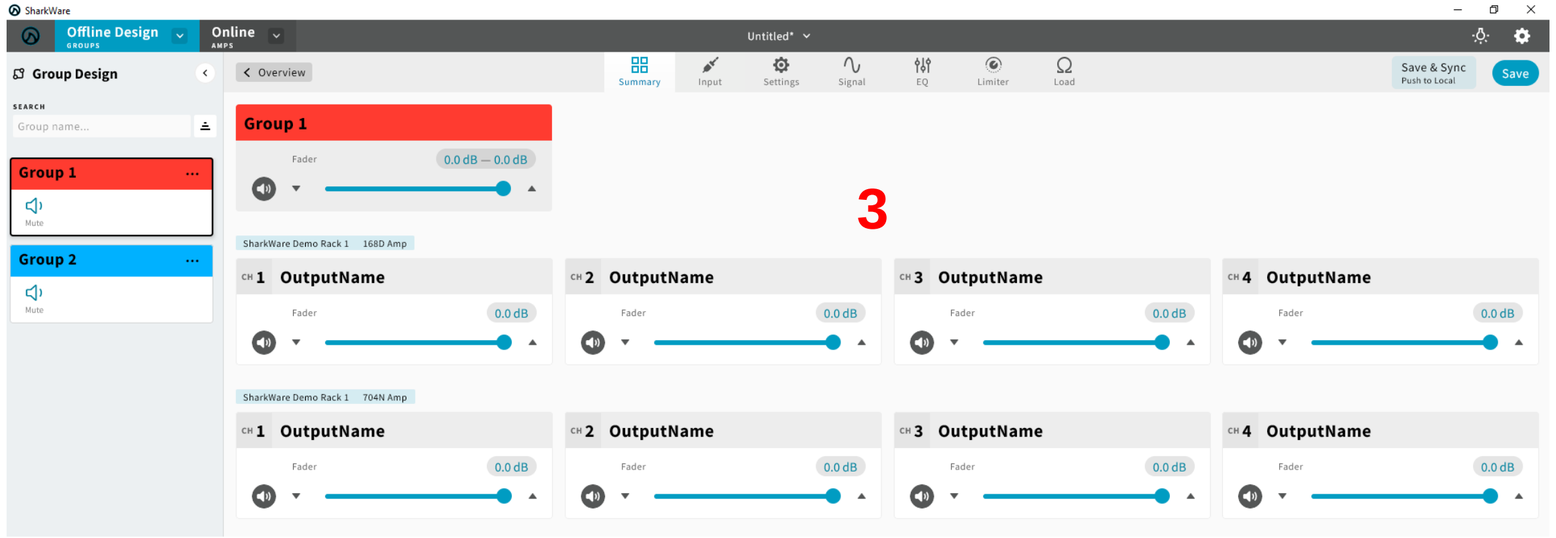
Step 3:

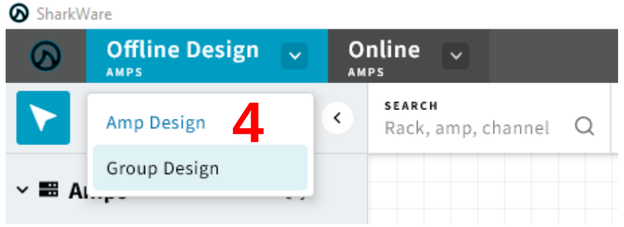
- Configure the Group

Step 4:

- Click on the ⌄ next to Offline Design and select ‘Amp Design’ to go back to Design Canvas







Offline System Design – Saving the Design File

Saving the Design File

Step 1:

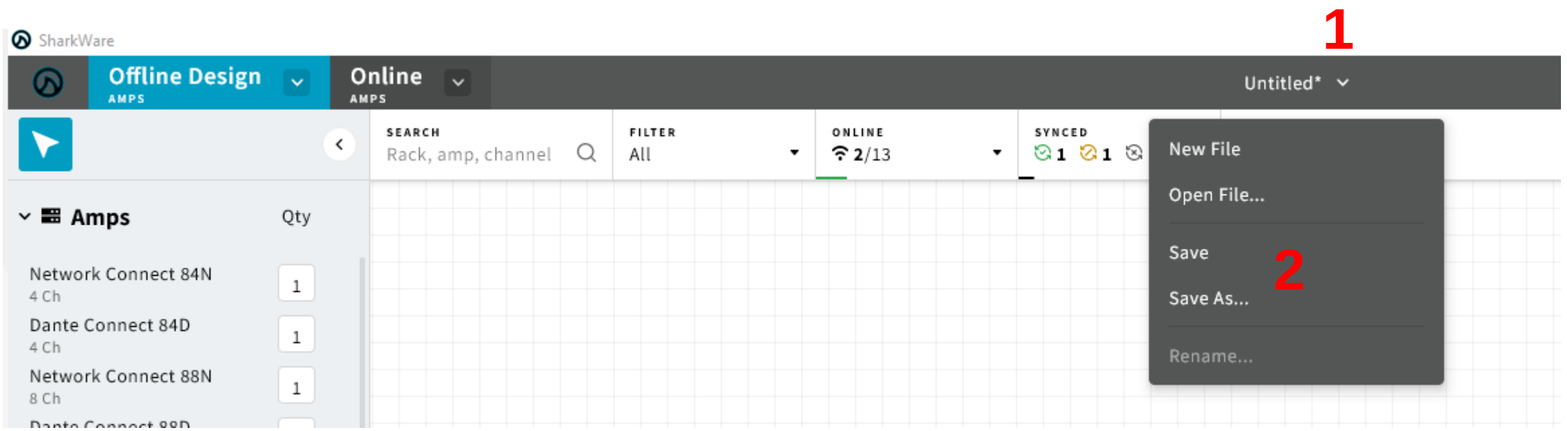
- Click on the ⌄ in the top center of SharkWare

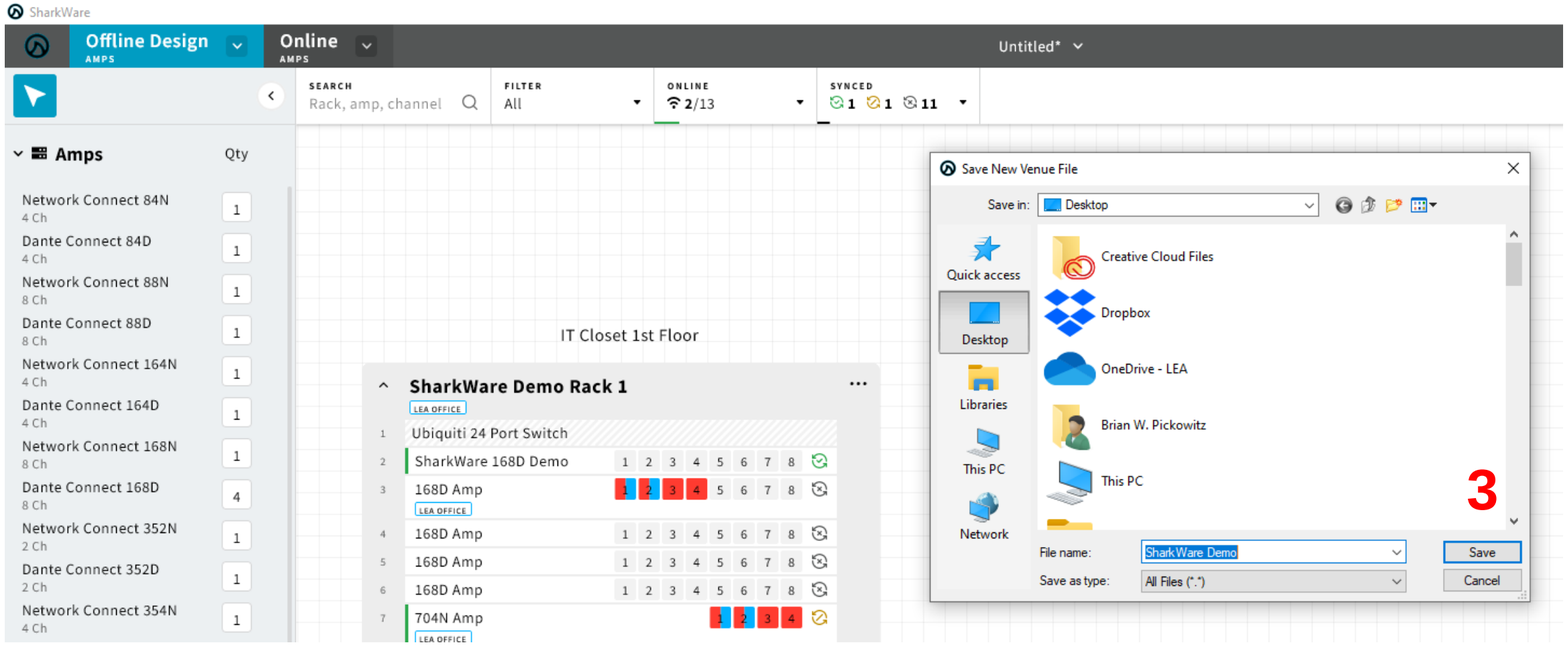
Step 2:

- Select ‘Save’ or ‘Save As’ based on your preference

Step 3:

- Name File, Select which folder to save file, then click ‘Save’





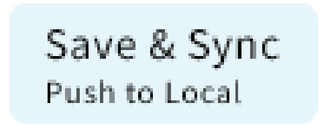
Syncing Offline to Online Design

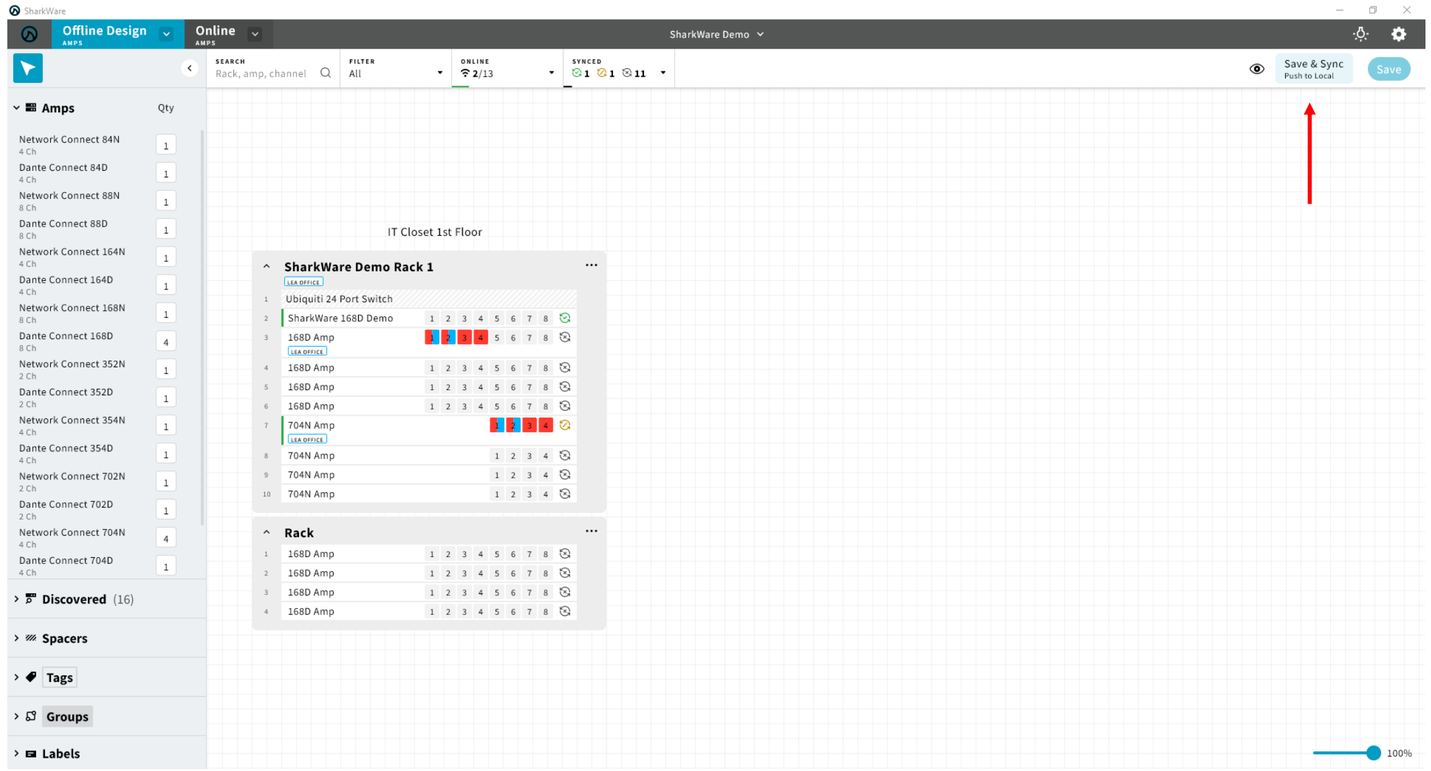
Save & Sync – Push to Local

When you are in Offline Design Mode, you will notice there is a ‘Save & Sync Push to Local’ box in the right hand corner.

When you click on this button, it will Save the file & it will also push all offline settings to the online amps once you transition from Offline Design to Online Mode.

You will also notice the ‘Save & Sync Push to Local’ button only appears when a change has been made from the current saved file

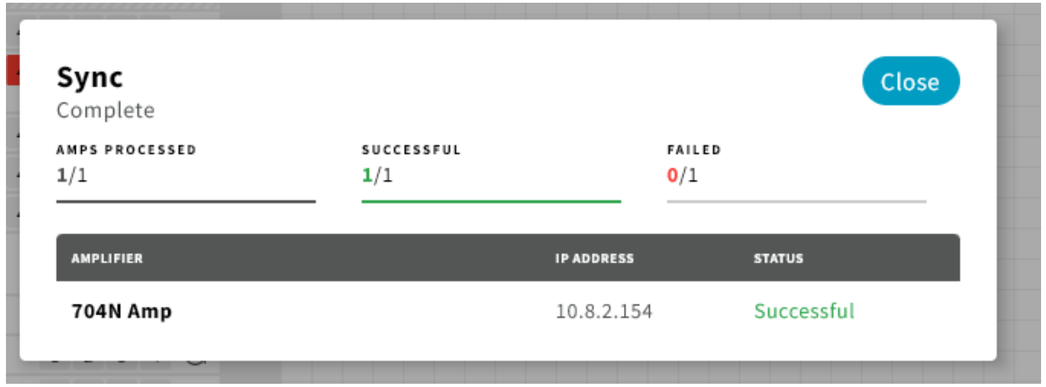




Syncing Offline to Online Design

Save & Sync – Push to Local

Once ‘Save & Sync – Push to Local’ is pressed, the software will save the design file and push the settings to Online mode. Now online and offline mode both have the same settings.

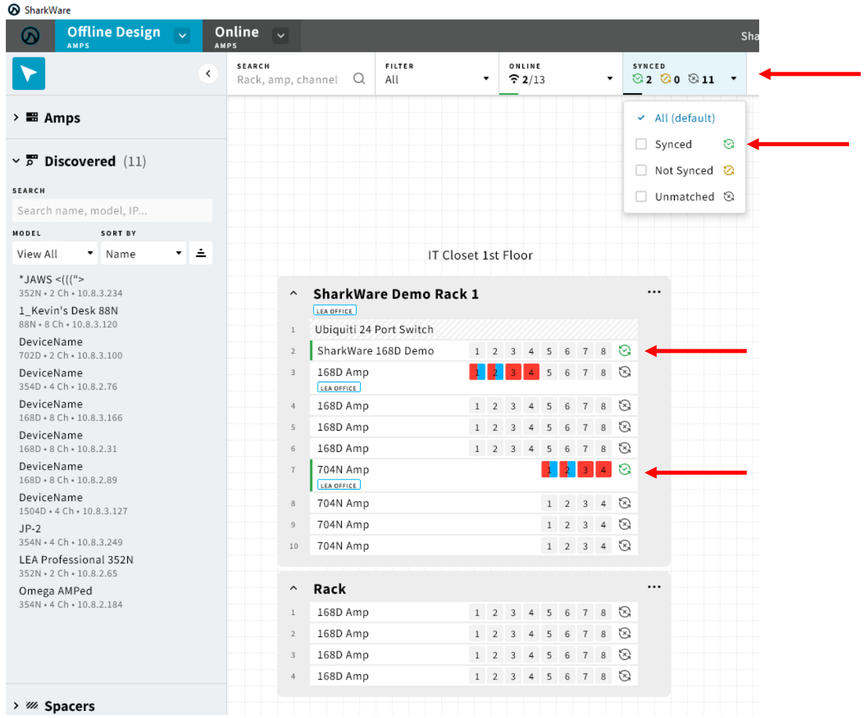


Synced, Not Synced, Unmatched

Synced Indicates the Offline & Online file are in sync with the settings of the amplifier.

Not Synced Indicates the Offline or Online File is not the same settings as the amplifier connected to SharkWare

Unmatched Indicates the amplifier in the Offline or Online File is not matched to an amplifier that is currently on the network

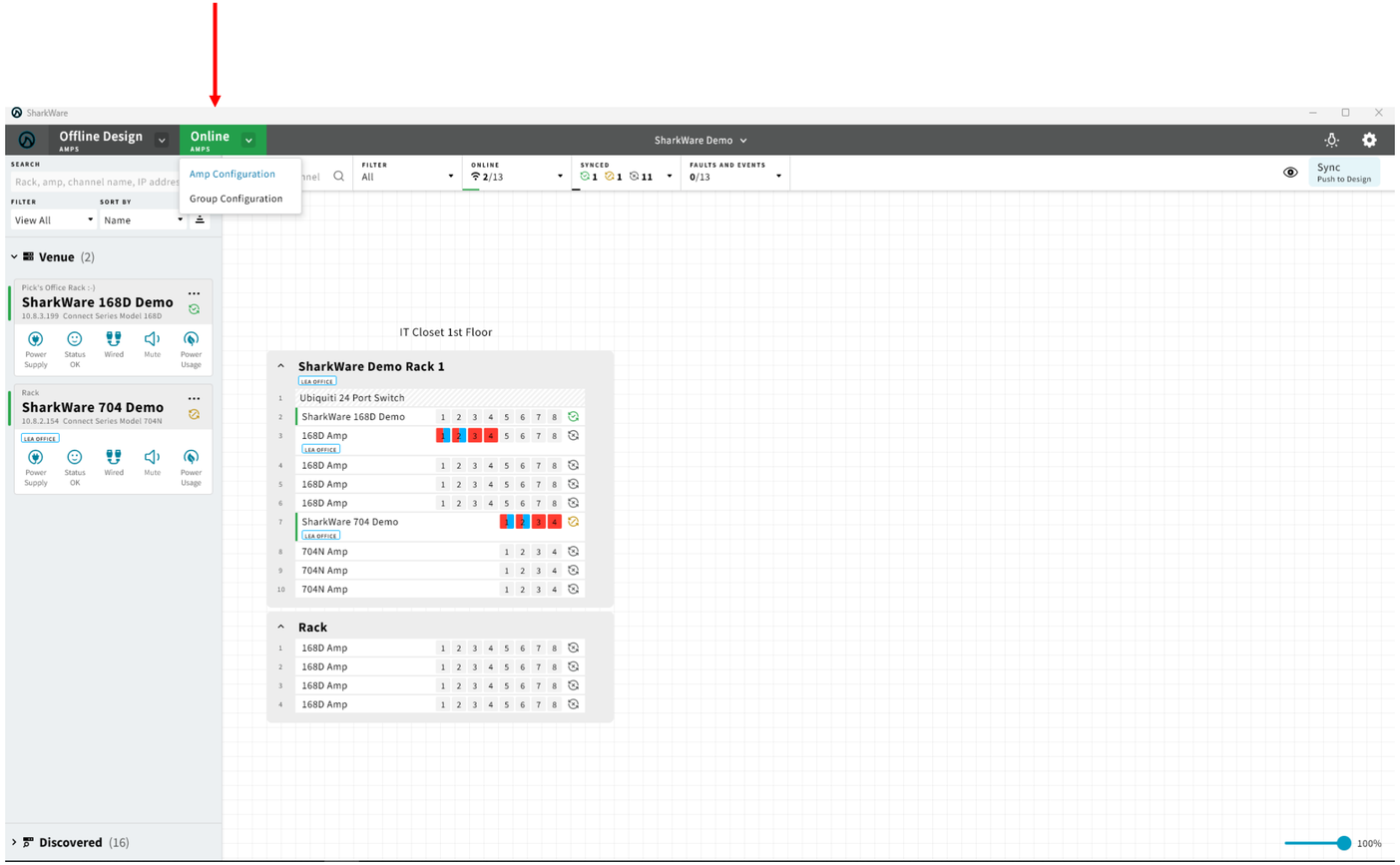


Online Mode

After you've designed your system and have assigned discovered devices to amps in the Design Canvas, you can control, monitor, and configure your file in Online Mode.

Once in Online Mode, any changes or adjustments are done in real time

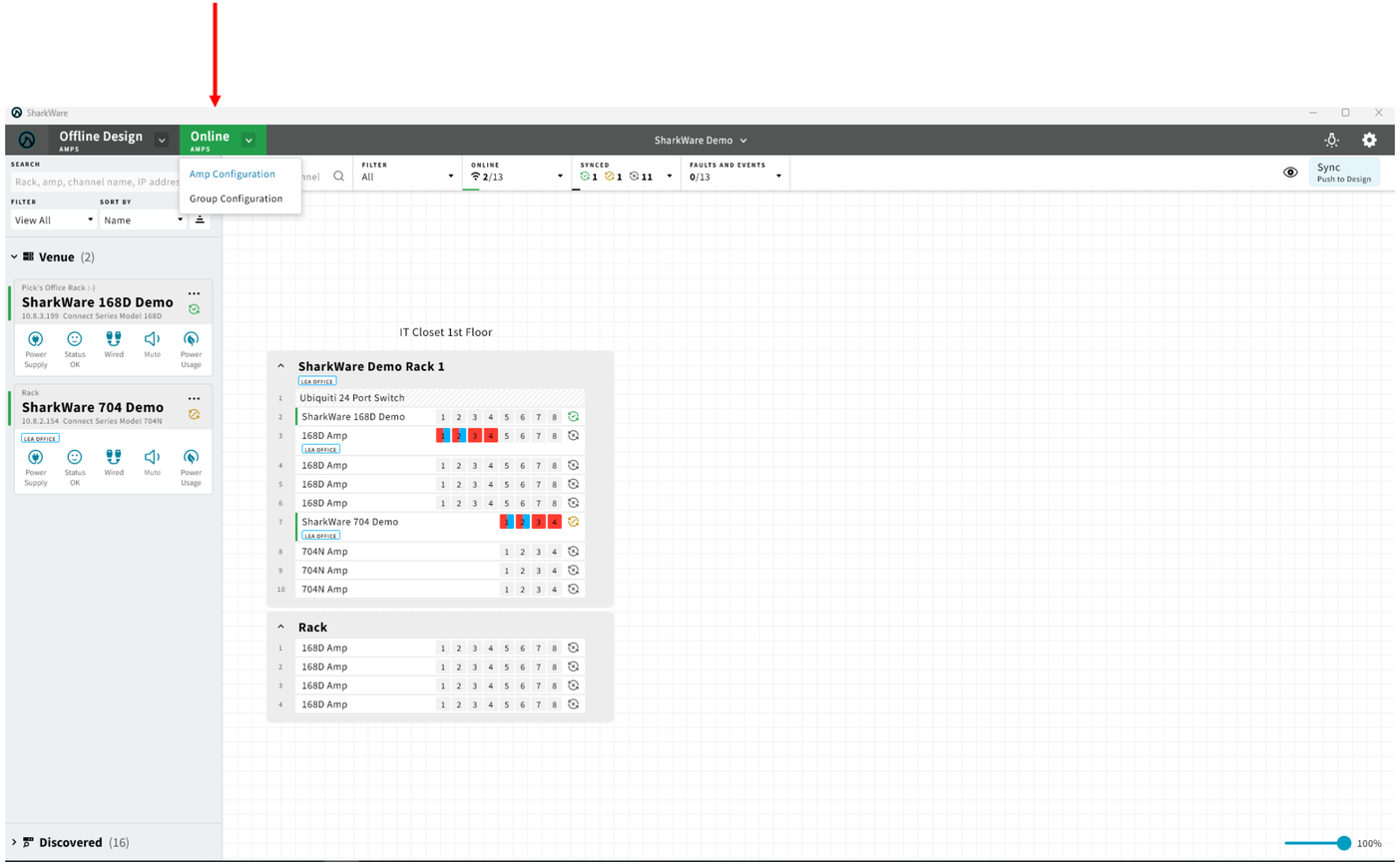
You can make individual amp adjustments or Group Adjustments in Online Mode



Online Mode – Amp Control and Monitoring

Under ‘Online Amps’ select ‘Amp Configuration. To Control and monitor and individual amp either:

- Double click on the online amp in the design canvas
- Click on the amp in the left hand window under ‘Venue’



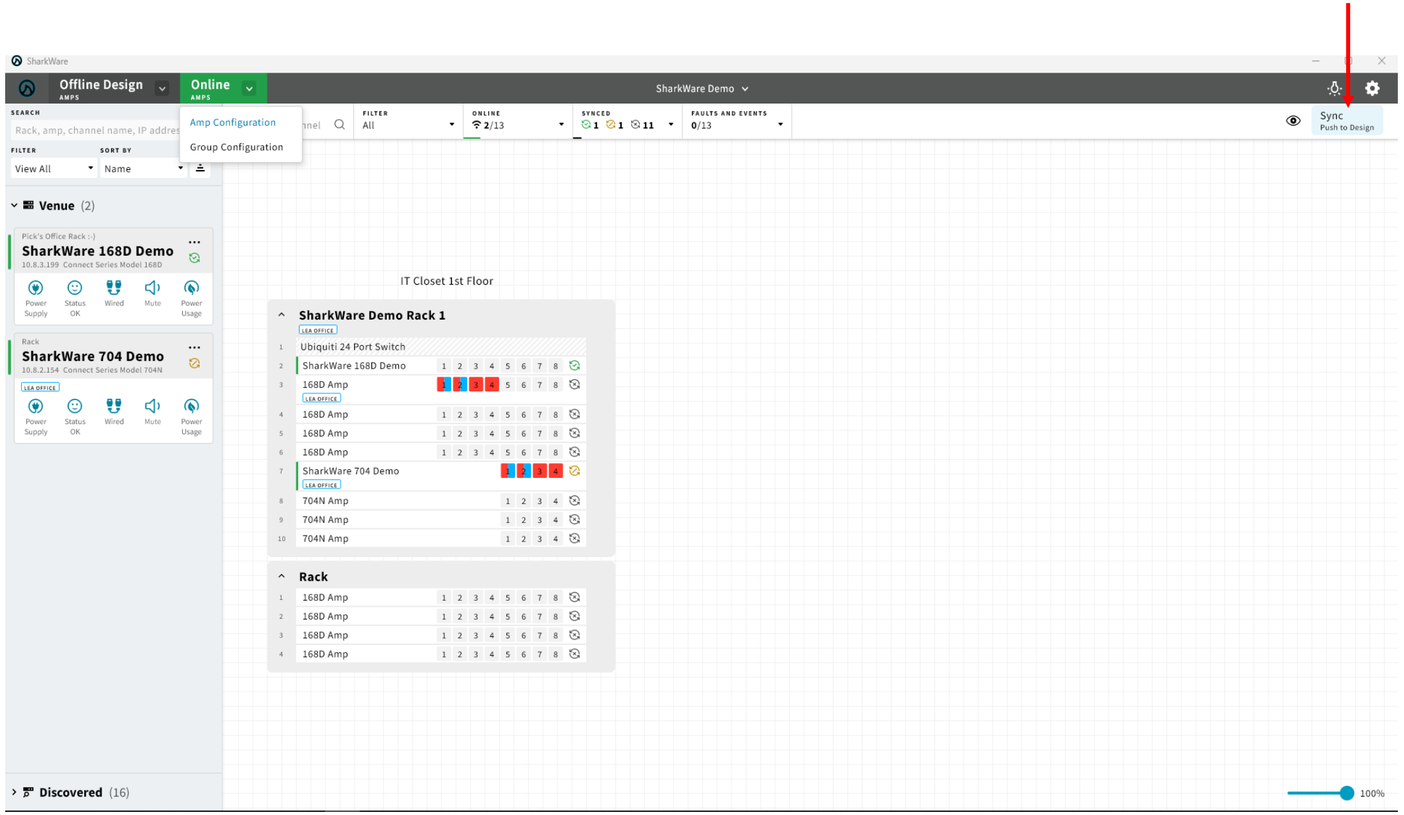
Online Mode – Sync Push to Design

Sync Push to Design

If a change is done to an amplifier or a group in Online Mode, you will notice the ‘Sync Push to Design’ button appears.

This indicates a change has been made in online mode different from the Offline Design.

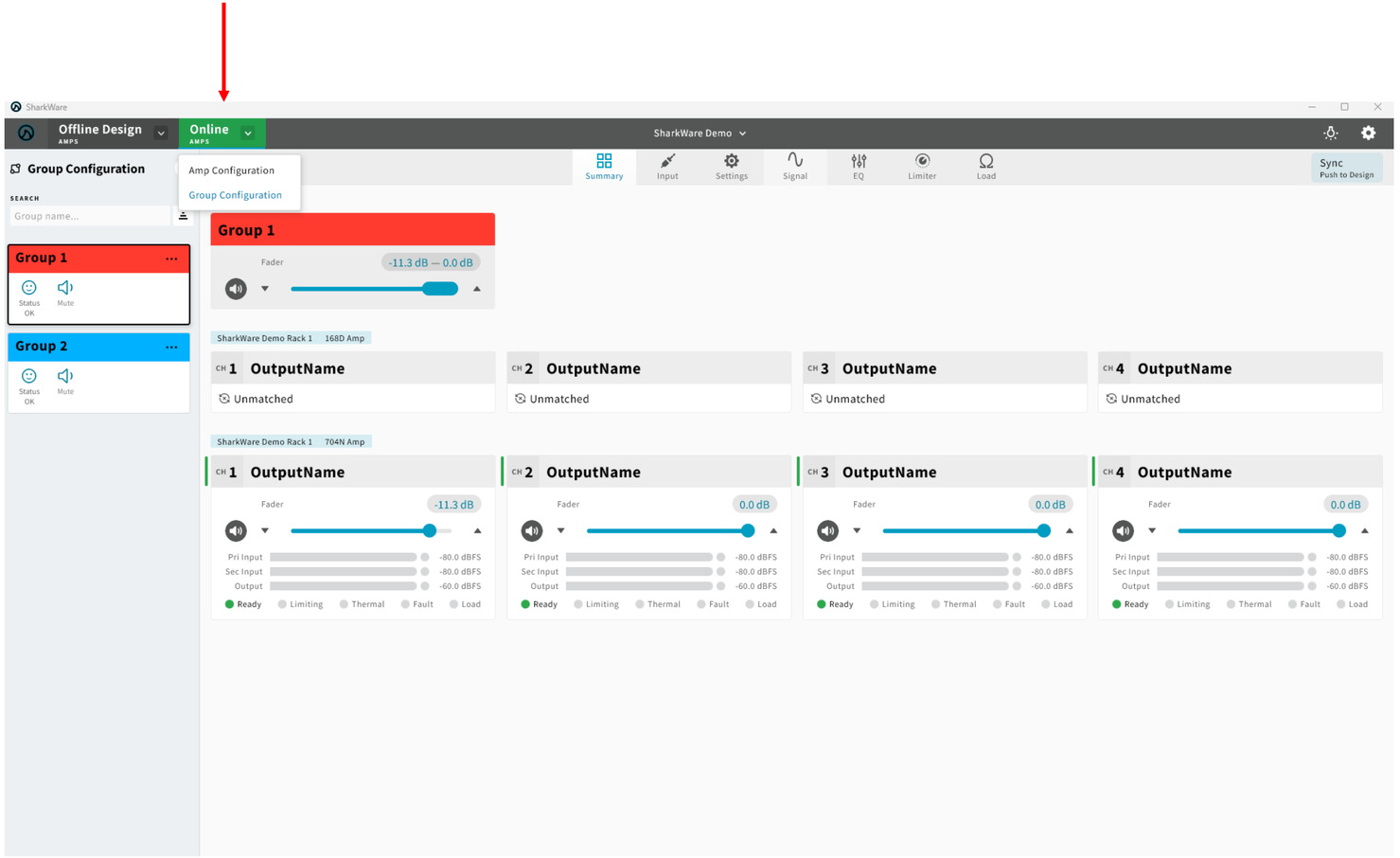
If you push ‘Sync Push to Design’ the Online changes will be pushed to the Offline Design mode of Sharkware.



Online Mode – Group Control and Monitoring

Under ‘Online Amps’ select ‘Group Configuration. This mode allows you to Control and monitor Groups you have setup in real time with online amplifiers

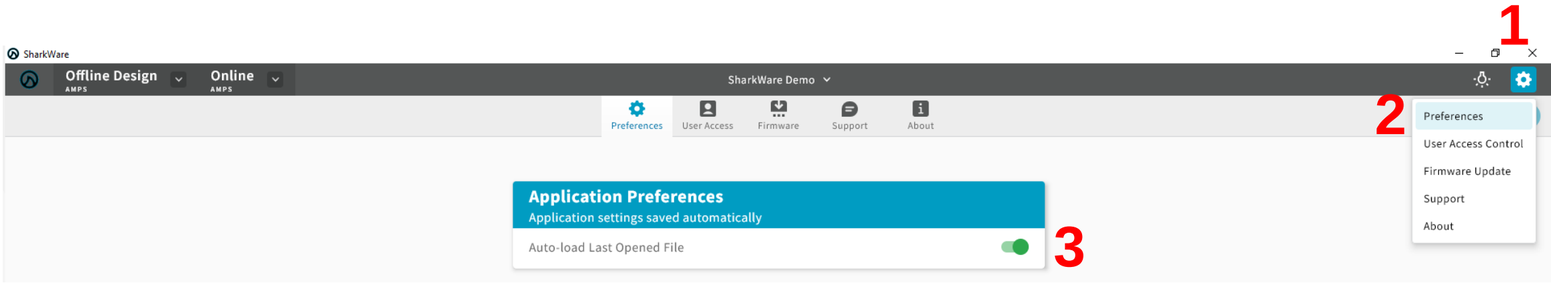
- This mode allow allows you to make group adjustments to any of the settings of the amplifiers assigned to that group.



Offline System Design – Auto-Load Last Opened File

Auto-Load Last Opened File

This will automatically load the last saved file everytime Sharkware is opened. This option is has the ability to be turned on or off by the user.



Step 1:

- Click on the ⚙ icon in the top right

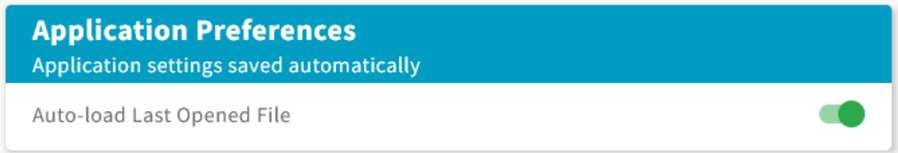
Step 2:

- Select ‘Preferences’

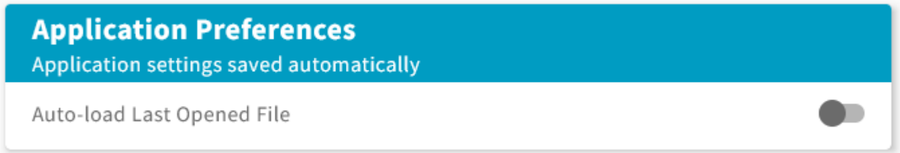
Step 3:

- Enable or Disable Auto-Load Last Opened File

Auto-Load is Enabled



Auto-Load is Disabled



User Access Control

Step 1:

- Click on the ⚙ icon in the top right

Step 2:

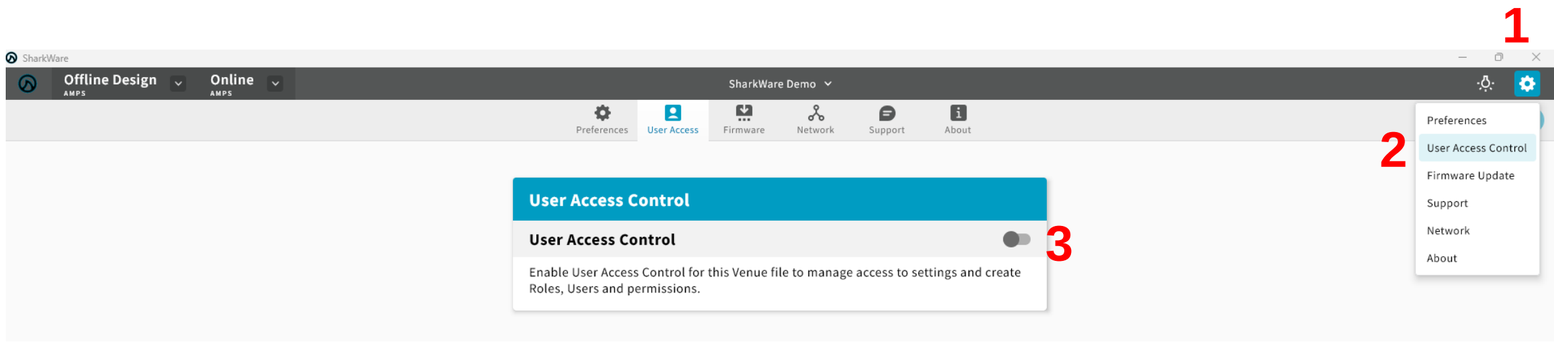
- Select ‘User Access Control’

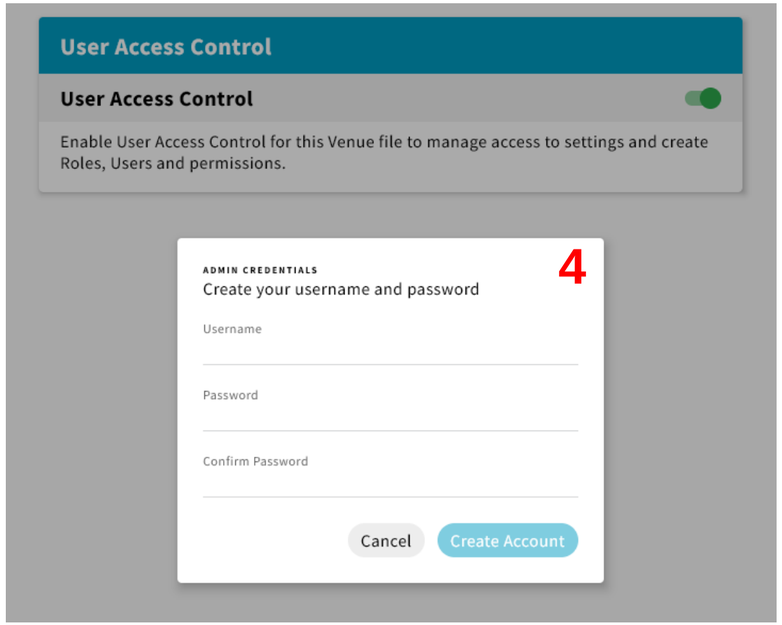
Step 3:

- Enable User Access Control

Step 4:

- Create Admin Credentials





User Access Control - Roles

Step 1:

- Click on the + icon to create a new role

Step 2:

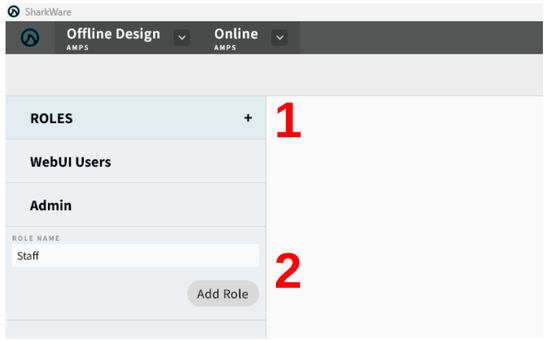
- Enter a role name

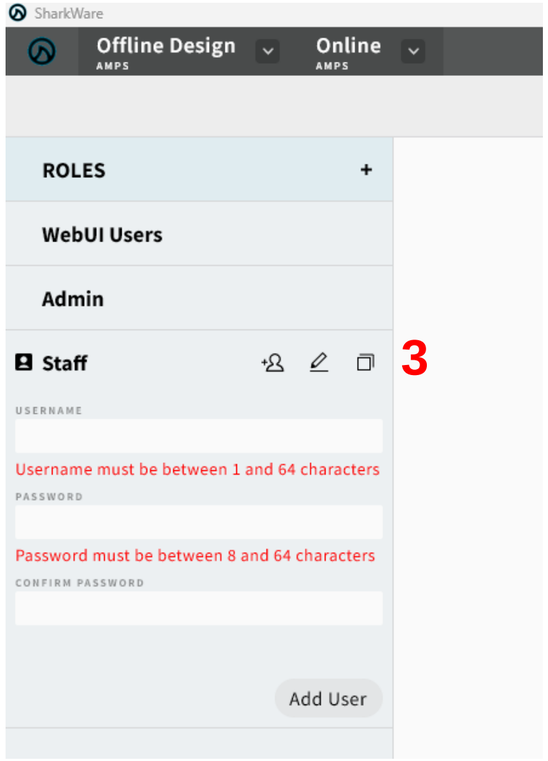
Step 3:

- Click on the icon to create user credentials for this role
  - Multiple users can be created within a single role
- Click on the icon to rename or delete the role
- Click on the icon to create a copy of the role

Step 4:

- Configure the read/write privileges for the role





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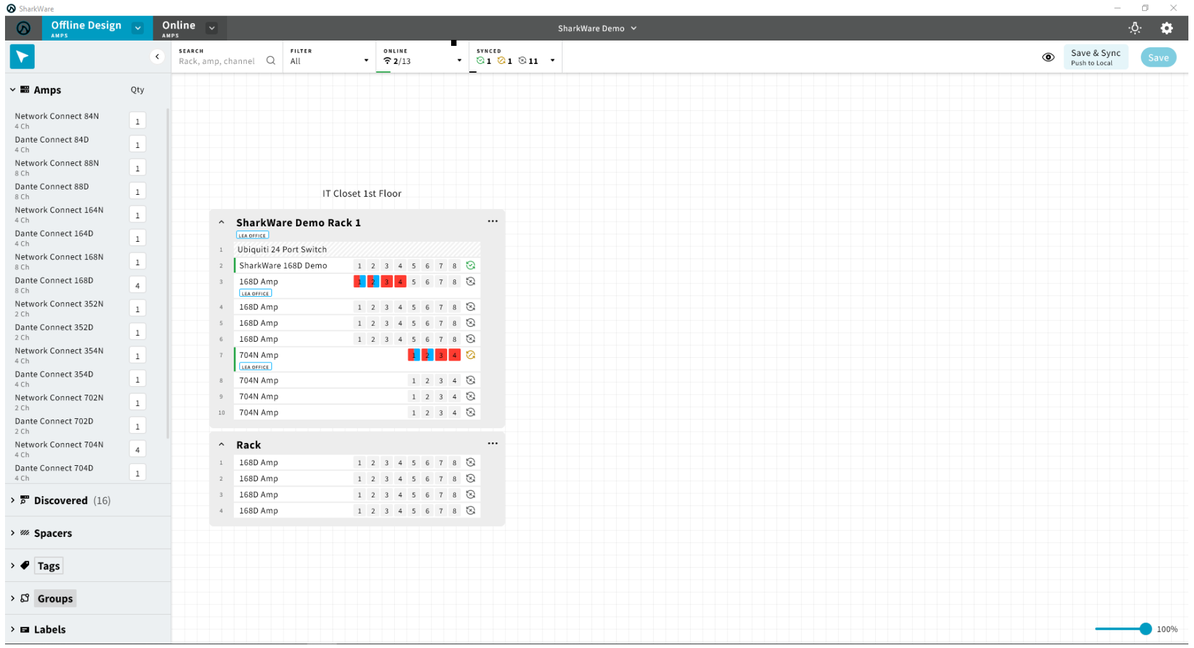
SETTINGS		READ/ WRITE	READ ONLY	NO ACCESS
Channel Output	Select All	◉	○	○
Channel output gain		◉	○	○
Mute		◉	○	○
Channel Settings	Select All	○	○	◉
Channel Name		○	○	◉
HiZ / LowZ settings		○	○	◉
Smart Power Bridge		○	○	◉
Enable channel standby		○	○	◉
Dante on ramp		○	○	◉
Back Panel Attenuation Pot Lockout		○	○	◉
Input Selector	Select All	○	○	○
Primary input type		◉	○	○
Primary input gain		○	○	◉
Secondary input type		○	○	◉
Secondary input gain		○	○	◉
Input sensitivity		○	○	◉
Input Delay		○	○	◉
Override Mode		○	○	◉
Input Mixer Fader		○	○	◉
Input EQ	Select All	○	○	◉

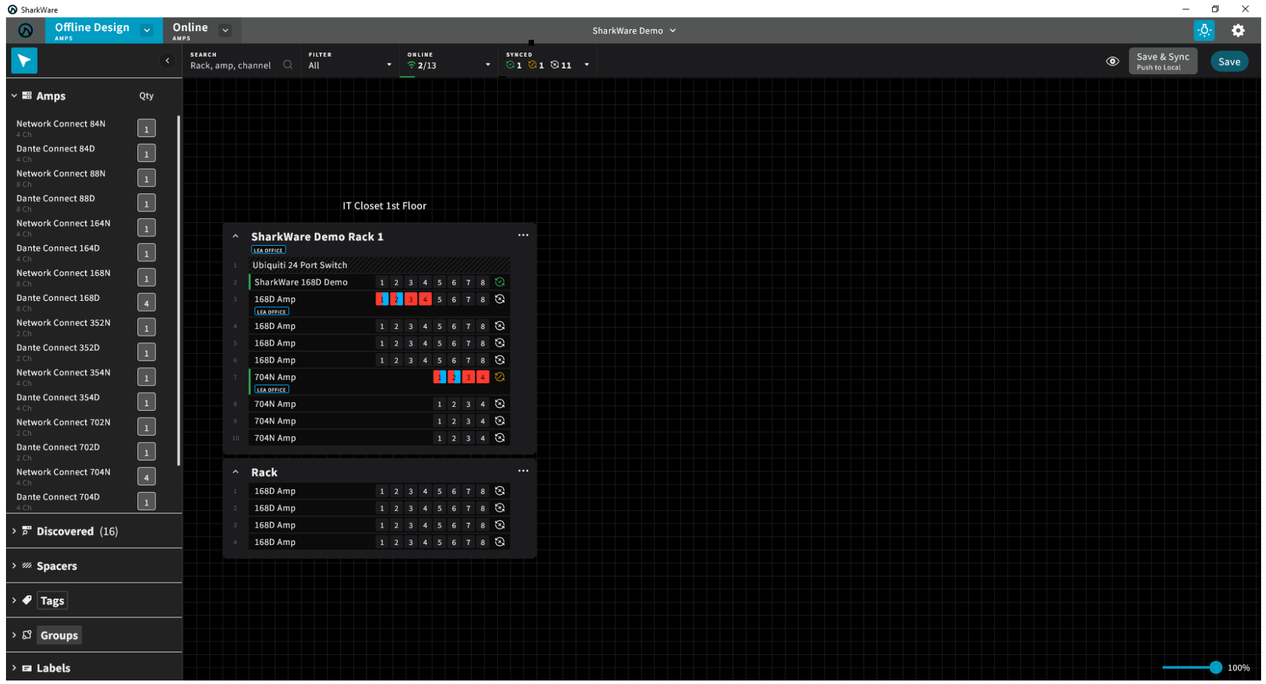
Toggle Light and Dark Mode

Click on the in the top right to toggle light and dark mode.

Light Mode



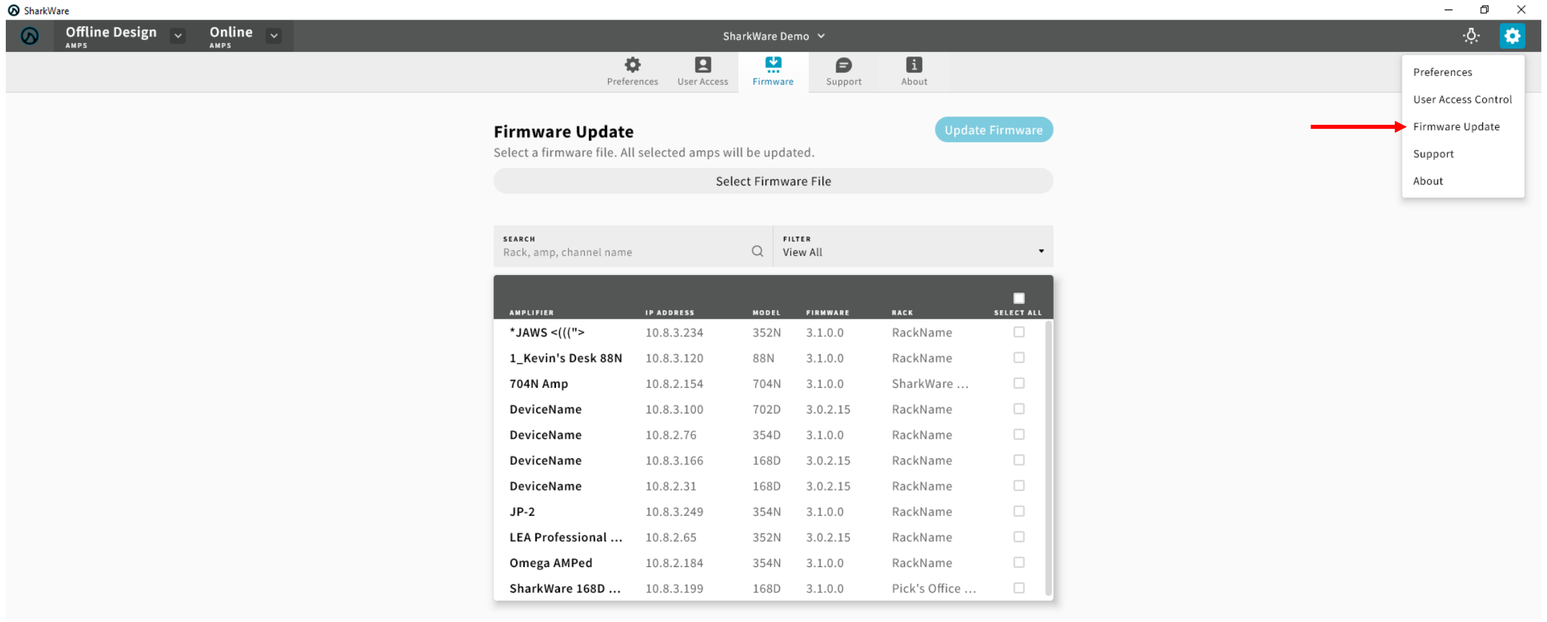
Dark Mode



Firmware Update

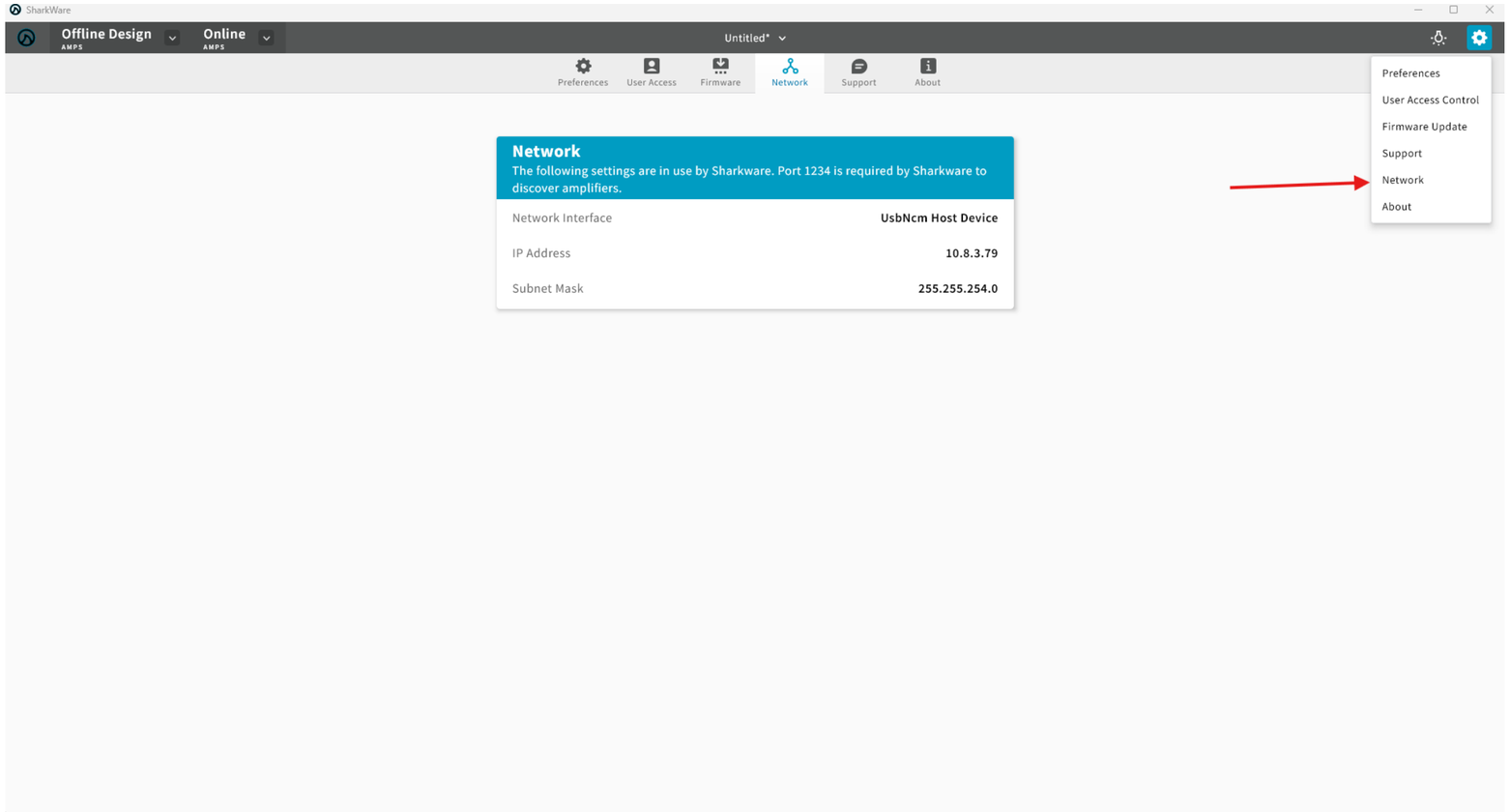
If you click on the ⚙ icon in the top right and then click on ‘Firmware Update’ you will notice you now have the ability to update firmware on individual devices or everything on the network with the check boxes.

- Click ‘Select Firmware File’
- In the open box, select the LEA Firmware file (should be 4.0.0.0 or higher)
- Then click ‘Update Firmware’



To Download the Latest version of firmware please follow this link:https://leaprofessional.com/downloads/

Network

If you click on the ⚙ icon in the top right and then click on ‘Network’, Sharkware will display information about the Network Interface it is currently using.

- Network Interface Description
- IP Address
- Subnet Mask