



SHARKWARE

SharkWare User Manual

March 2023

www.leaprofessional.com

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

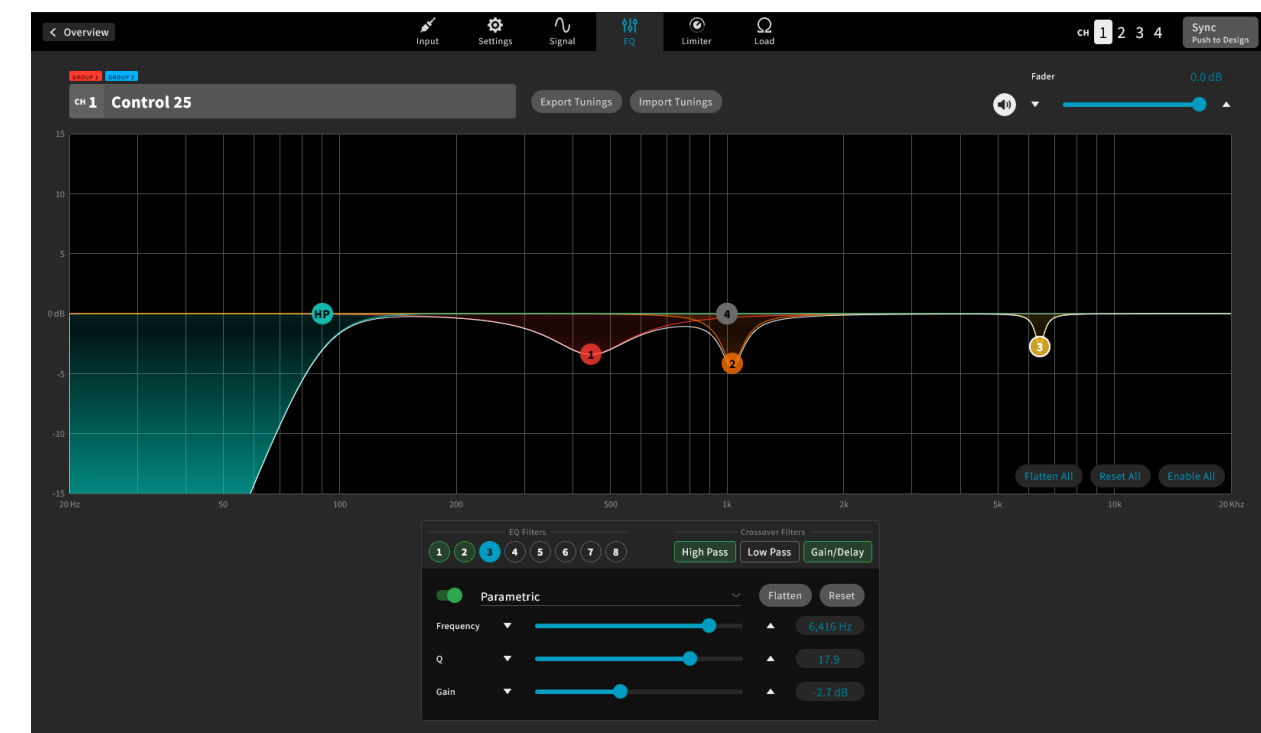


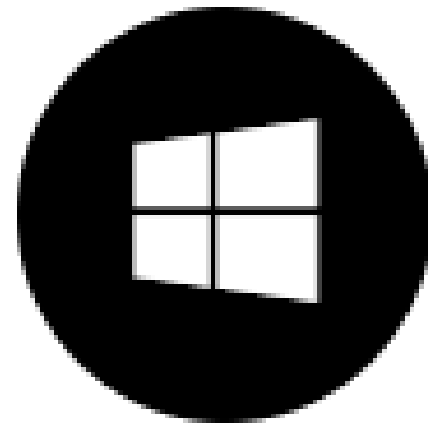
- **Saved SharkWare Files now Include SharkWare Logo**
- **Updated Connectivity Icon on Venue Filters**
- **Updated EQ dB Graph Resolution to 3dB Increments**
- **Fixed Issue with Firmware Update on Some Networks**
- **Fixed Syncing Issue from Offline to Online Mode in specific scenarios**

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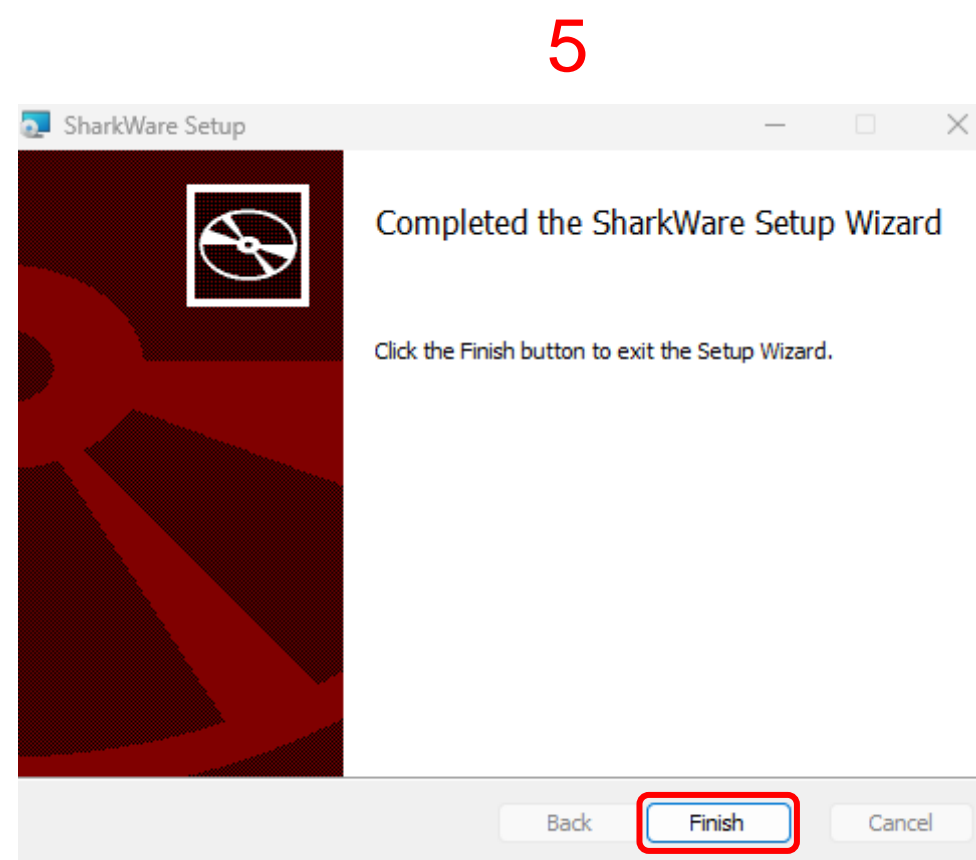
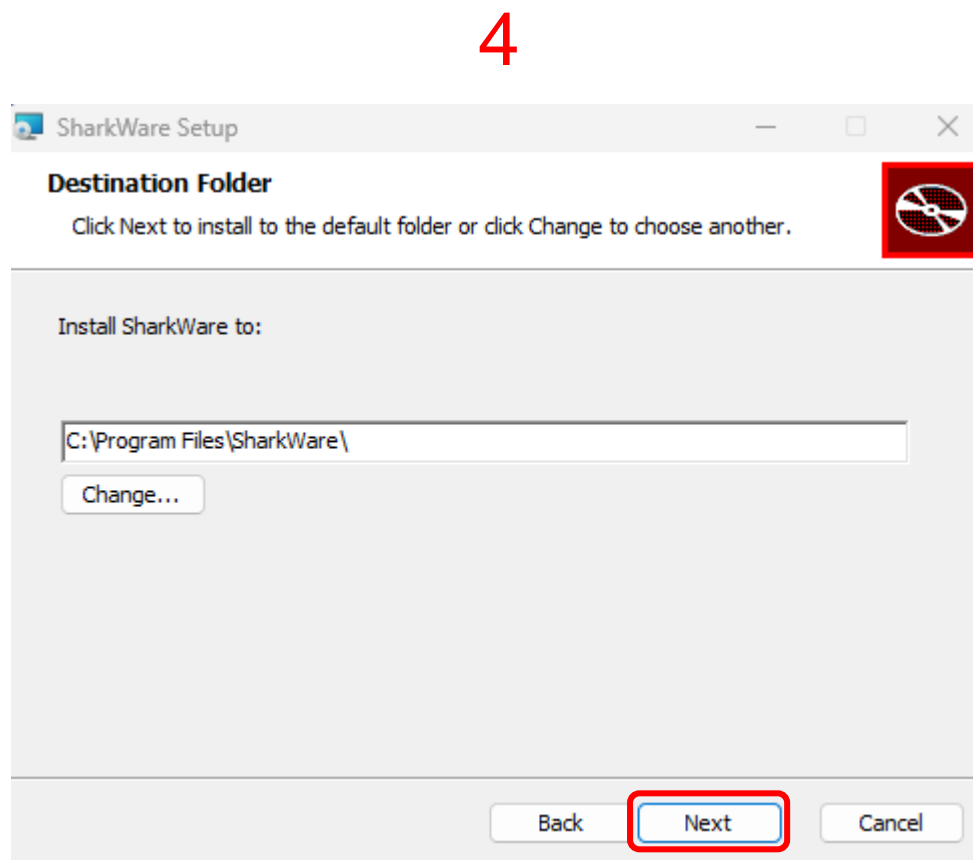
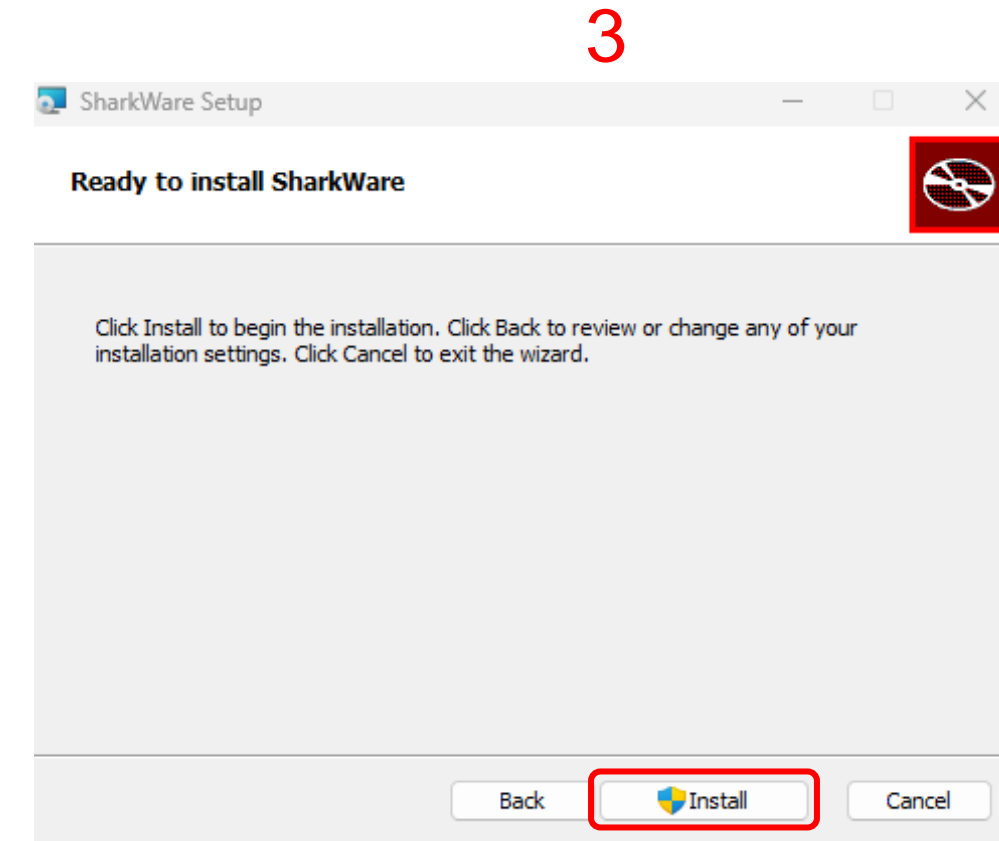
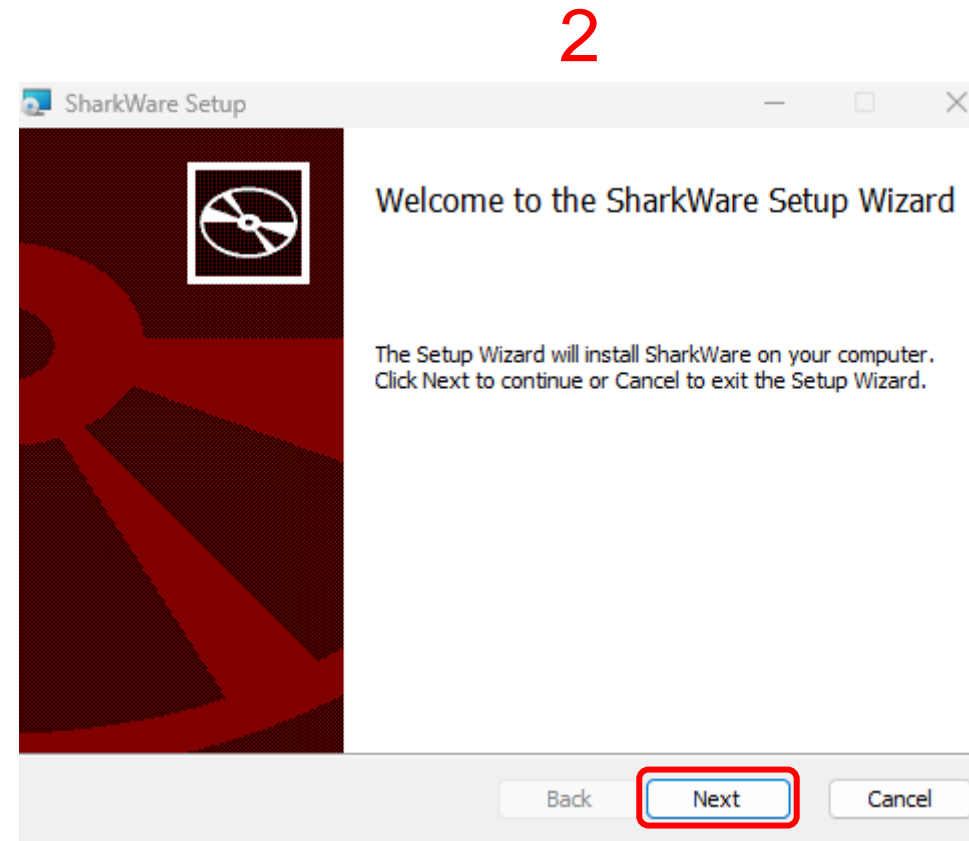
- Windows 10+, quad core CPU, 8GB RAM, 200MB free space



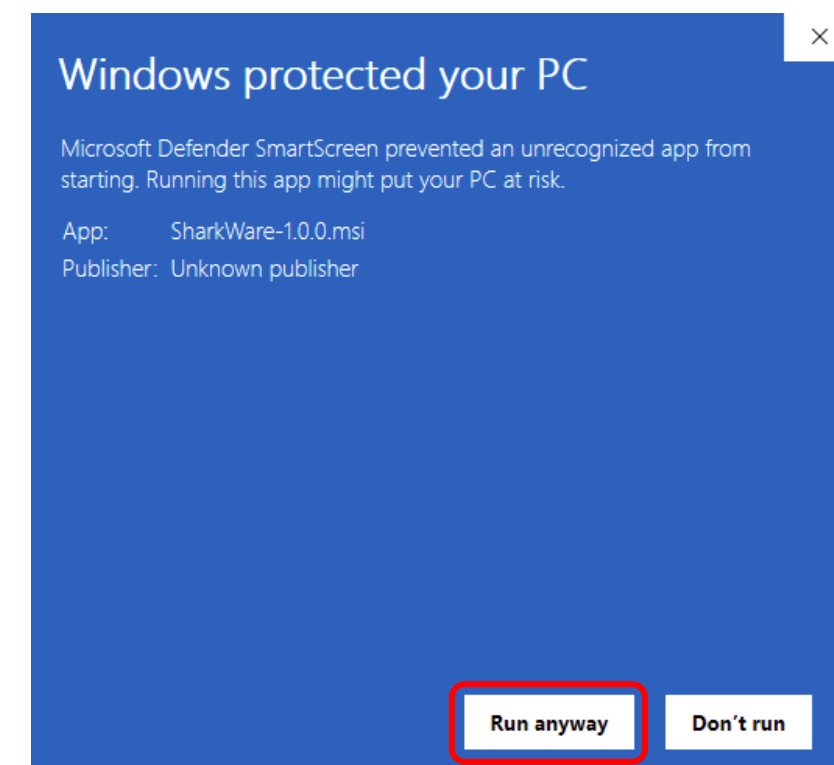
- MacOS 10.14+, quad core CPU, 8GB RAM, 200MB free space

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”.

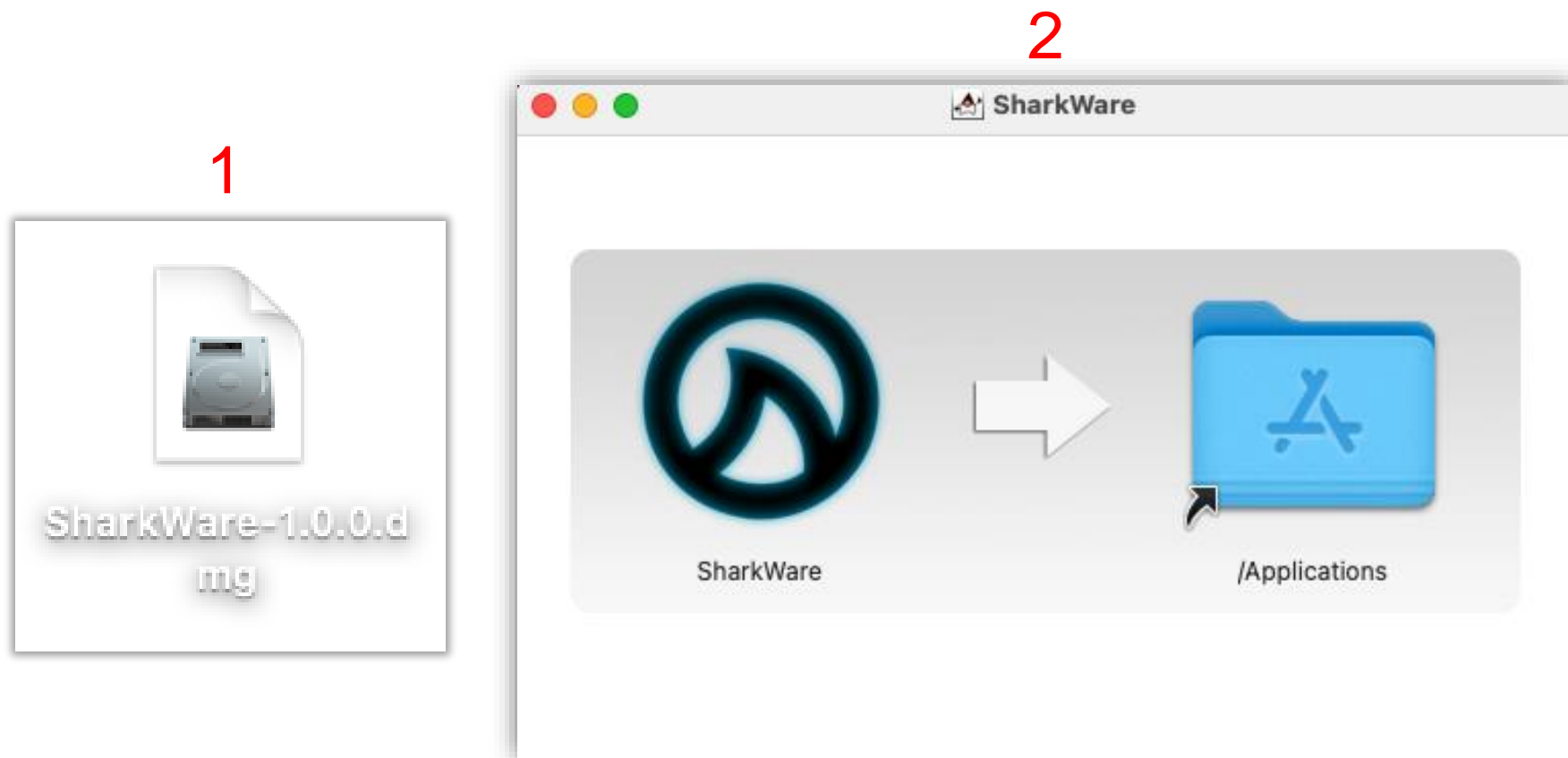


NOTE:
During the installation process you may receive this notification, continue by clicking “Run anyway”.



Installation Steps

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

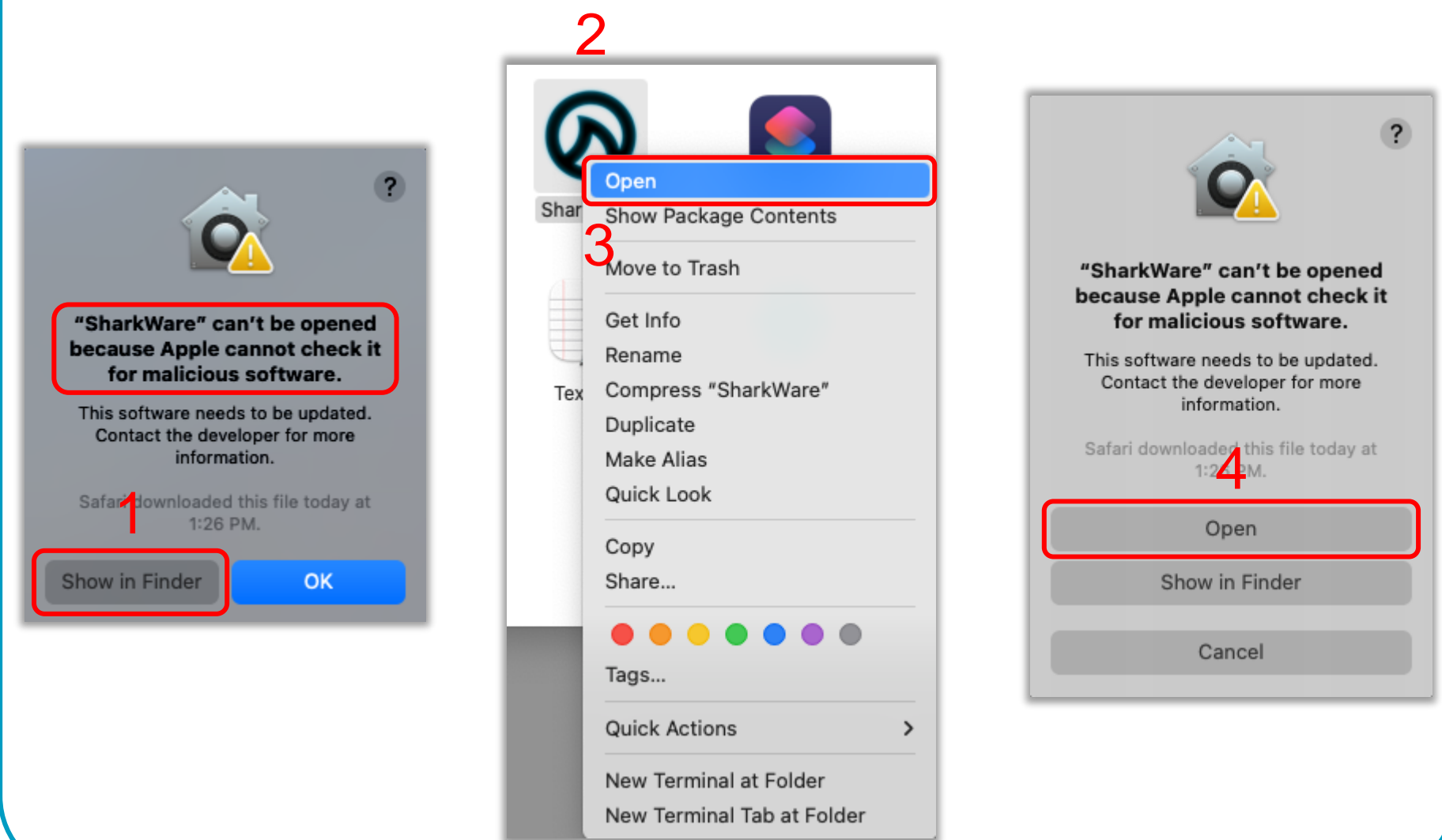


NOTE:

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



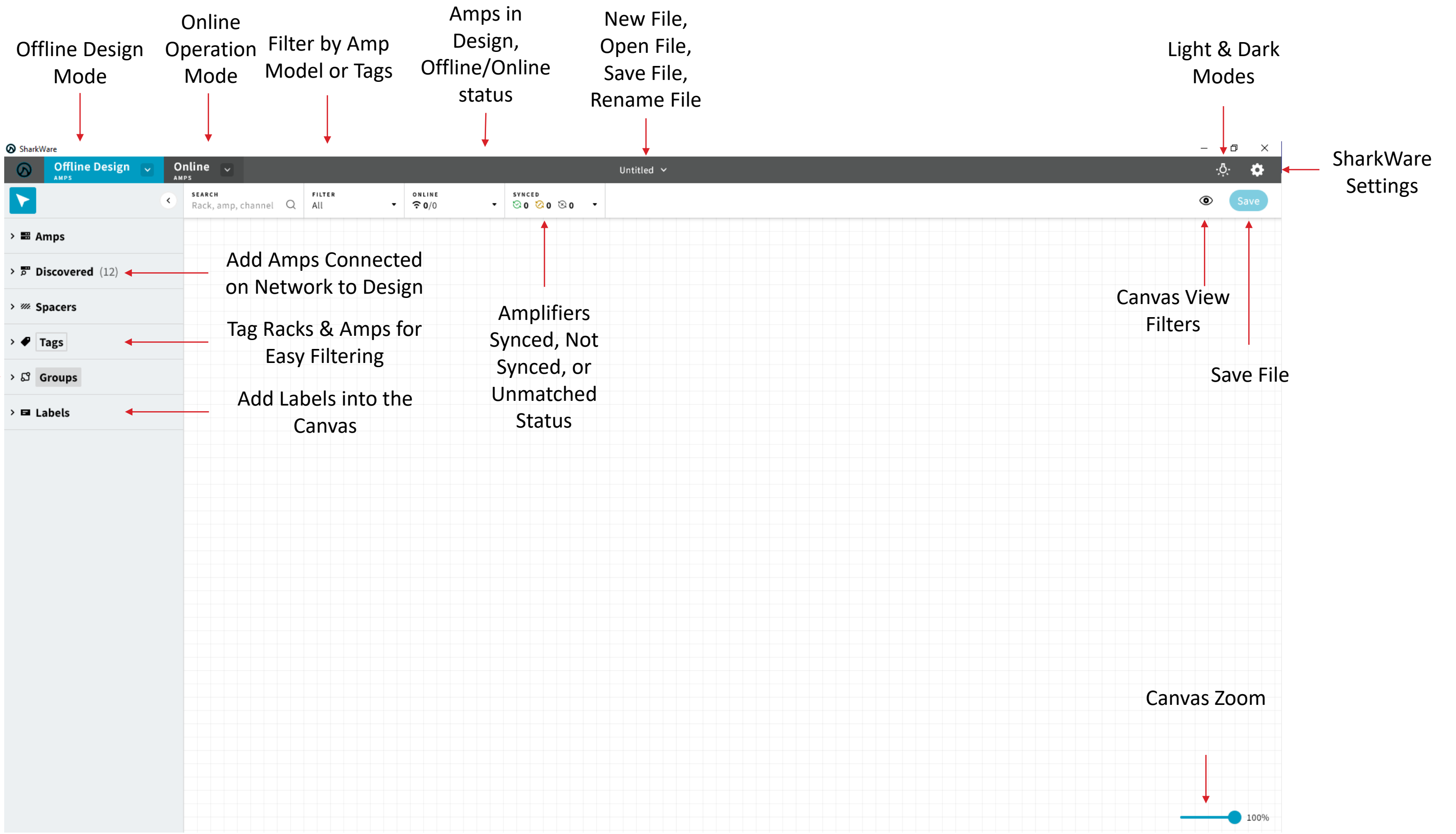


In order to utilize all the features in Sharkware, the LEA Connect Series amplifier must have firmware version 3.1.0.0 or higher.

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

<https://leaprofessional.com/downloads/>

If you have a version prior to 3.1.0.0, you may not be able to use all features in Sharkware with your LEA Connect Series Amplifiers.



The screenshot shows the SharkWare LEA Professional interface with the following annotations:

- Offline Design Mode**: Points to the 'Offline Design' button in the top-left toolbar.
- Online Operation Mode**: Points to the 'Online' button in the top-left toolbar.
- Filter by Amp Model or Tags**: Points to the 'FILTER' dropdown menu in the top toolbar.
- Amps in Design, Offline/Online status**: Points to the 'ONLINE' status indicator in the top toolbar.
- New File, Open File, Save File, Rename File**: Points to the 'Save' button in the top-right toolbar.
- Light & Dark Modes**: Points to the light/dark mode toggle in the top-right toolbar.
- SharkWare Settings**: Points to the gear icon in the top-right toolbar.
- Add Offline Amps to Design**: Points to the 'Amps' folder in the left sidebar.
- Add and Name Other Rack Equipment**: Points to the 'Spacers' folder in the left sidebar.
- Group Amp Channels Together**: Points to the 'Groups' folder in the left sidebar.
- Add Amps Connected on Network to Design**: Points to the 'Discovered (12)' folder in the left sidebar.
- Tag Racks & Amps for Easy Filtering**: Points to the 'Tags' folder in the left sidebar.
- Add Labels into the Canvas**: Points to the 'Labels' folder in the left sidebar.
- Amplifiers Synced, Not Synced, or Unmatched Status**: Points to the 'SYNCED' status indicators in the top toolbar.
- Canvas View Filters**: Points to the eye icon in the top-right toolbar.
- Save File**: Points to the 'Save' button in the top-right toolbar.
- Canvas Zoom**: Points to the zoom slider at the bottom right of the canvas.

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:

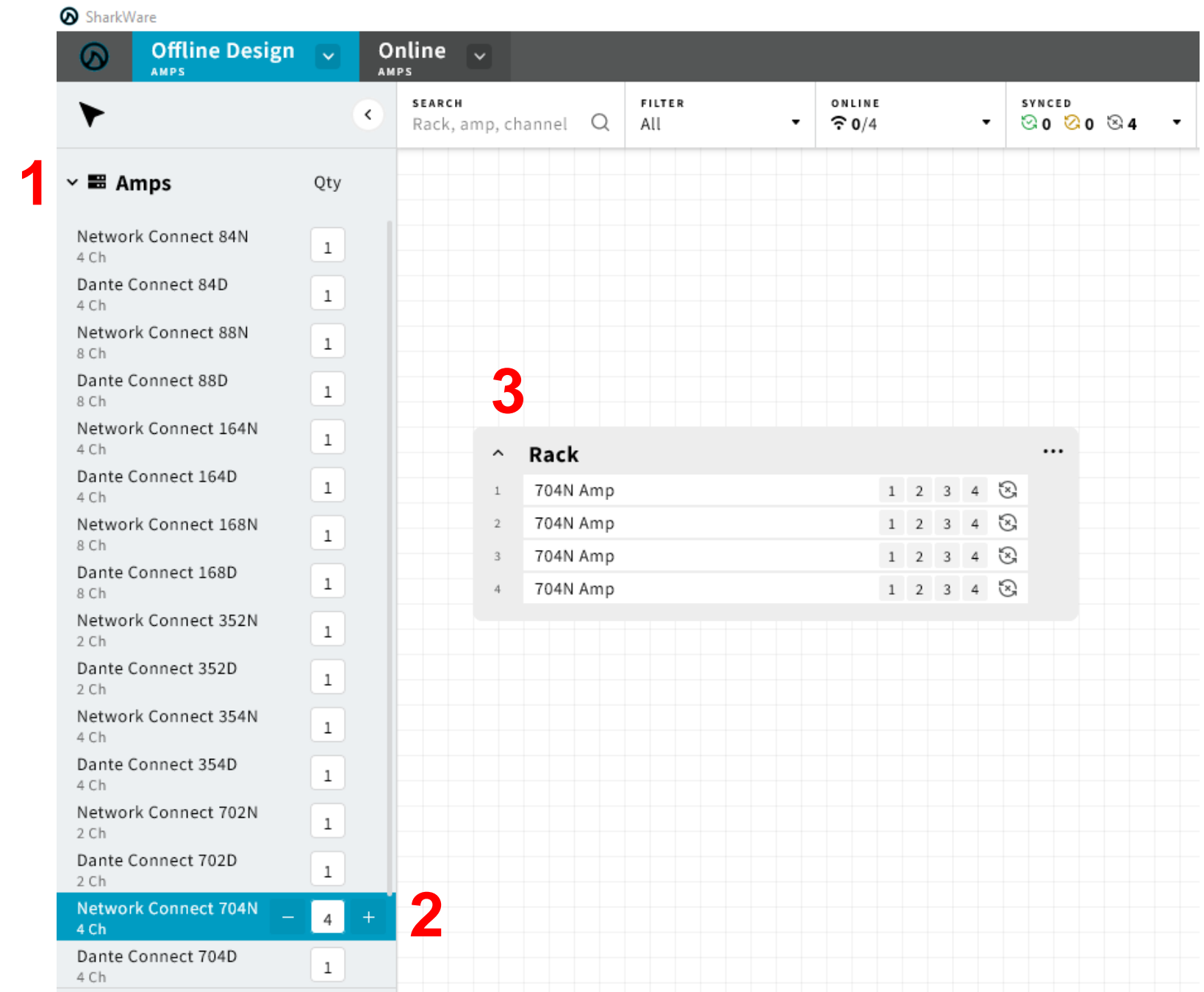
- Click on 

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 2a:

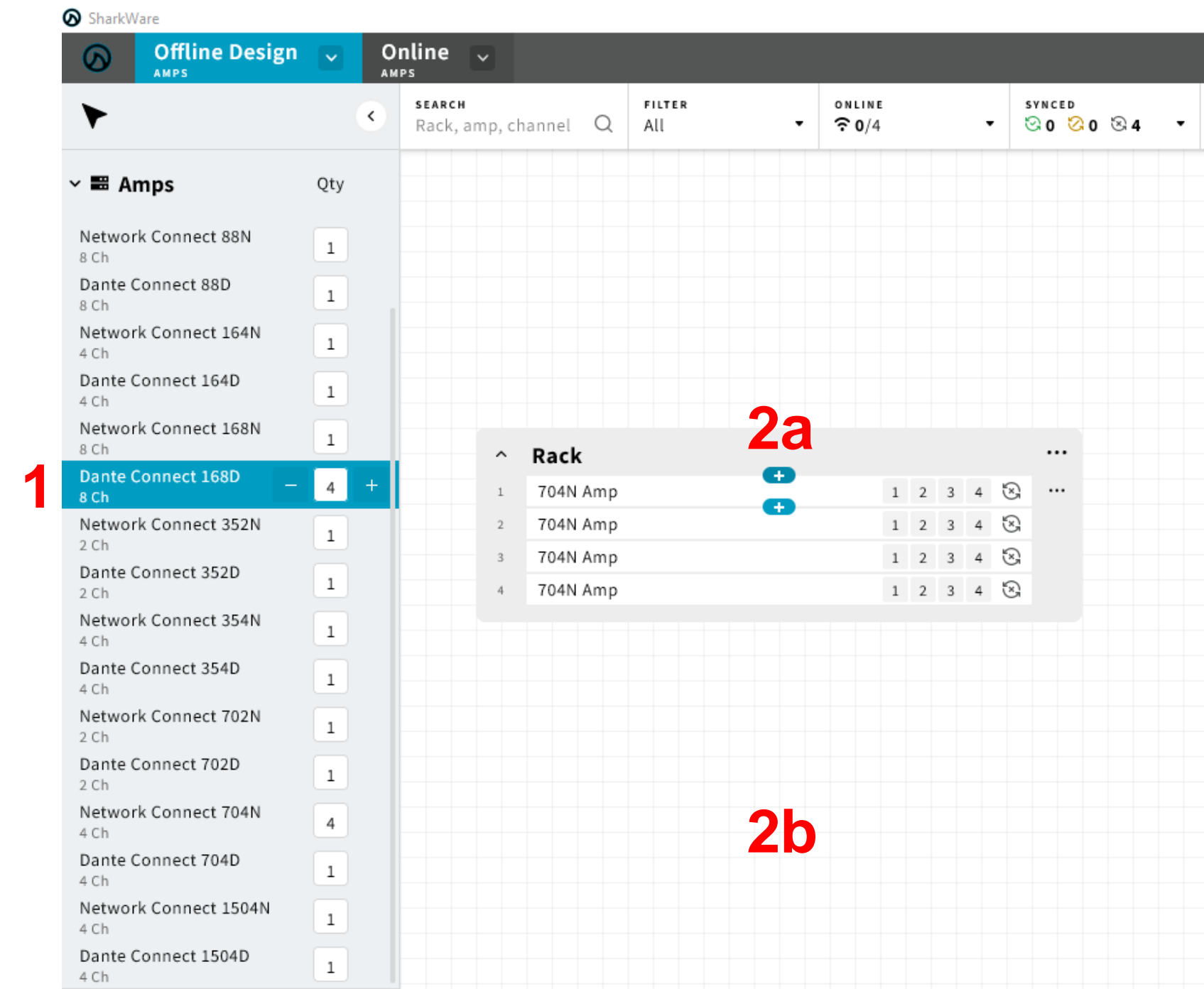
- If you are adding to an existing rack, hover the rack and you will see + above and below the amp in the rack. Click the + to add them above or below

Step 1:

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

Step 2b:

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



Adding More or Different Model Amps

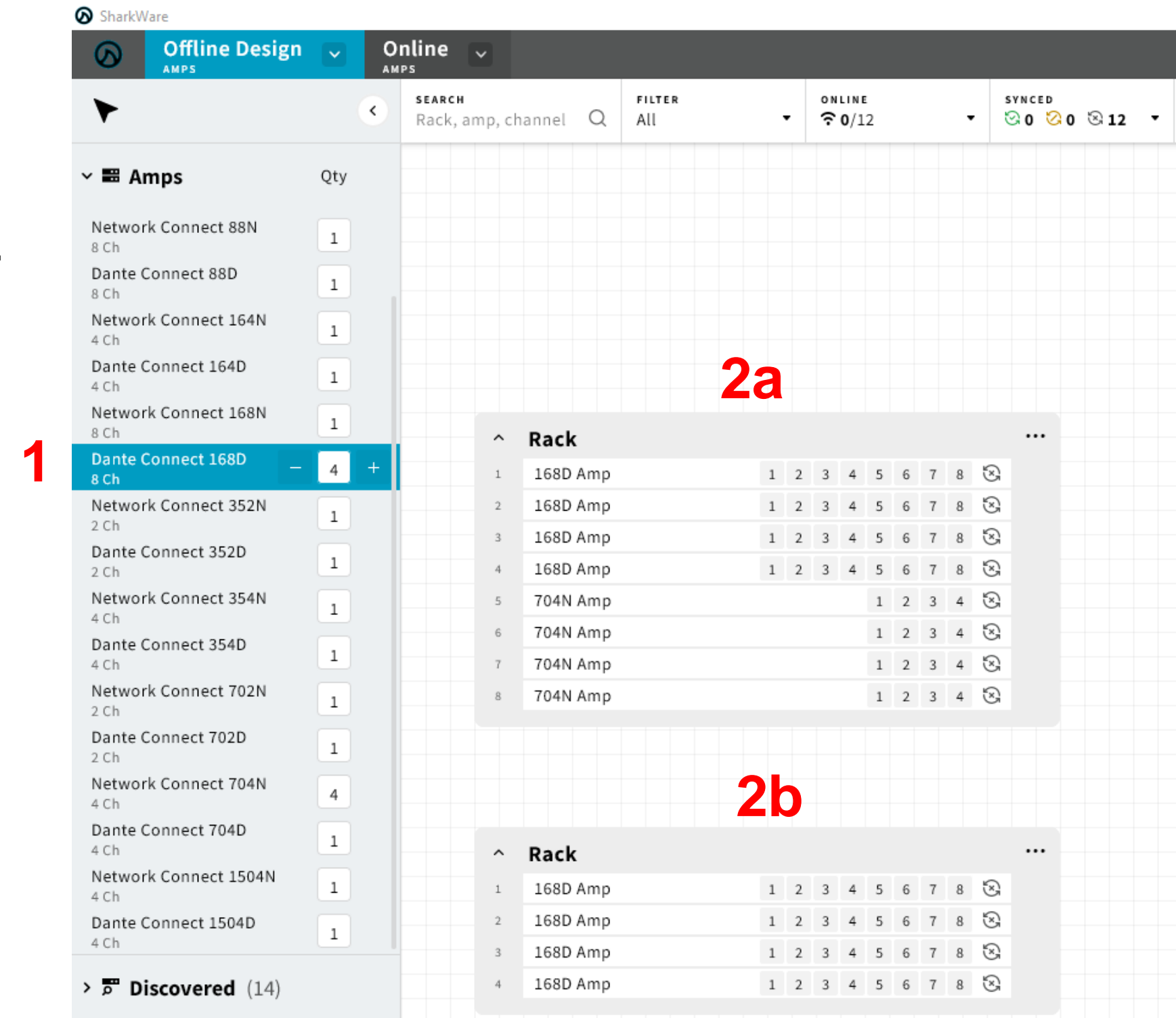
You can add more or different amp models into the venue.

Step 2a:

- If you are adding to an existing rack, hover the rack and you 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



The screenshot shows the SharkWare Offline Design interface. On the left, a list of amp models is displayed with their respective quantities. A red '1' is placed next to the 'Dante Connect 168D 8 Ch' entry, which has a quantity of 4 and a '+' button next to it.

On the right, two rack configurations are shown. The top rack, labeled '2a', contains 8 slots. Slots 1-4 contain '168D Amp' units, and slots 5-8 contain '704N Amp' units. The bottom rack, labeled '2b', contains 4 slots, all of which contain '168D Amp' units.



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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

The screenshot shows the SharkWare Offline Design software interface. The top navigation bar includes 'Offline Design' and 'Online' tabs. A search bar and filter options are visible. The main area displays a list of amp racks on the left and a detailed view of a selected rack on the right. A context menu is open over the selected rack, showing options like 'Rename Rack', 'Copy Rack', and 'Delete Rack'. Red numbers 1 and 2 highlight the three dots menu and the 'Rename Rack' option respectively.

Amps	Qty
Network Connect 88N 8 Ch	1
Dante Connect 88D 8 Ch	1
Network Connect 164N 4 Ch	1
Dante Connect 164D 4 Ch	1
Network Connect 168N 8 Ch	1
Dante Connect 168D 8 Ch	4
Network Connect 352N 2 Ch	1
Dante Connect 352D 2 Ch	1
Network Connect 354N 4 Ch	1
Dante Connect 354D 4 Ch	1
Network Connect 702N 2 Ch	1
Dante Connect 702D 2 Ch	1
Network Connect 704N 4 Ch	4
Dante Connect 704D 4 Ch	1
Network Connect 1504N 4 Ch	1
Dante Connect 1504D 4 Ch	1

Rack	
1	168D Amp
2	168D Amp
3	168D Amp
4	168D Amp
5	704N Amp
6	704N Amp
7	704N Amp
8	704N Amp

- Rename Rack
- Copy Rack
- Copy Rack with Settings
- Delete Rack



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Offline System Design

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

The screenshot shows the SharkWare Offline Design software interface. The top navigation bar includes 'Offline Design' and 'Online' tabs. A search bar contains 'Rack, amp, channel'. The left sidebar lists various amplifier models under the 'Amps' category, with 'Dante Connect 168D 8 Ch' selected and a quantity of 4. The main design canvas shows two rack instances. The top rack is expanded to show 8 slots: slots 1-4 contain '168D Amp' and slots 5-8 contain '704N Amp'. A context menu is open over the top rack, showing options: 'Rename Rack', 'Copy Rack', 'Copy Rack with Settings', and 'Delete Rack'. The bottom rack is also expanded and shows the same configuration.



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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 '+'

The screenshot shows the SharkWare interface with the 'Offline Design' tab selected. The left sidebar has 'Spacers' expanded, and a search bar contains 'Ubiquiti 24 Port Switch'. Below the search bar, there are controls for 'RUs' and 'Qty', both set to 1. A red '1' is placed next to the 'Spacers' section. A red '2' is placed next to the search bar. On the right, a grid shows two racks: 'SharkWare Demo Rack 1' and 'Rack'. The 'SharkWare Demo Rack 1' has 9 rows. Row 1 is highlighted with a red '3' and contains 'Ubiquiti 24 Port Switch'. Rows 2-4 are '168D Amp', rows 5-7 are '704N Amp', and row 8 is '704N Amp'. The 'Rack' has 4 rows, all '168D Amp'.

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:

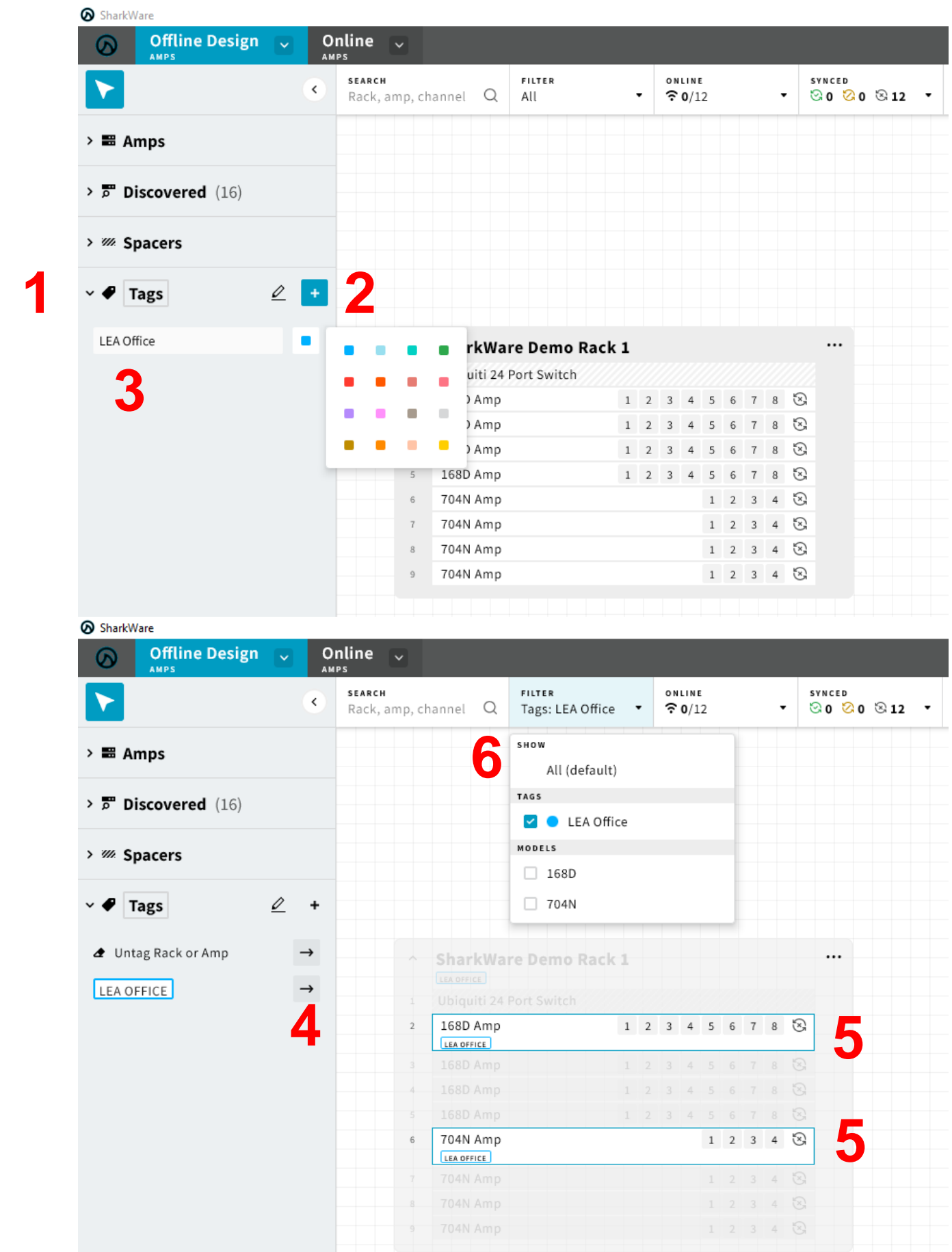
- Click on 

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



The screenshots illustrate the following steps:

1. Click on 'Tags' in the left sidebar.
2. Click the '+' icon next to the 'Tags' section.
3. Name the tag 'LEA Office' and select a color (blue).
4. Click the arrow icon to apply the tag to a rack.
5. The tag 'LEA OFFICE' is applied to the rack, and the rack contents are filtered to show only items with that tag.
6. Click on the 'Filters' dropdown in the top right to view the filter options.



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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:

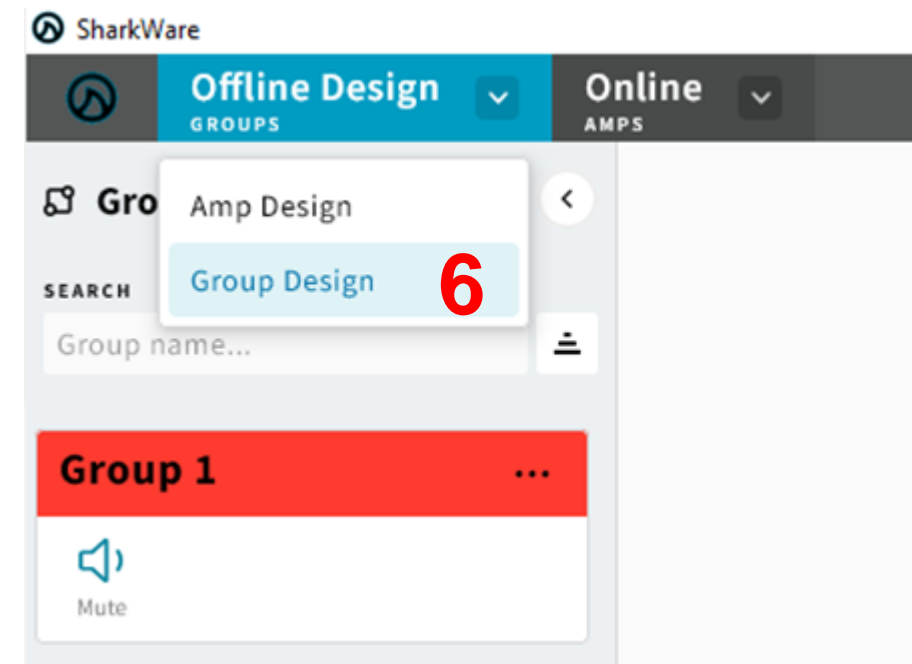
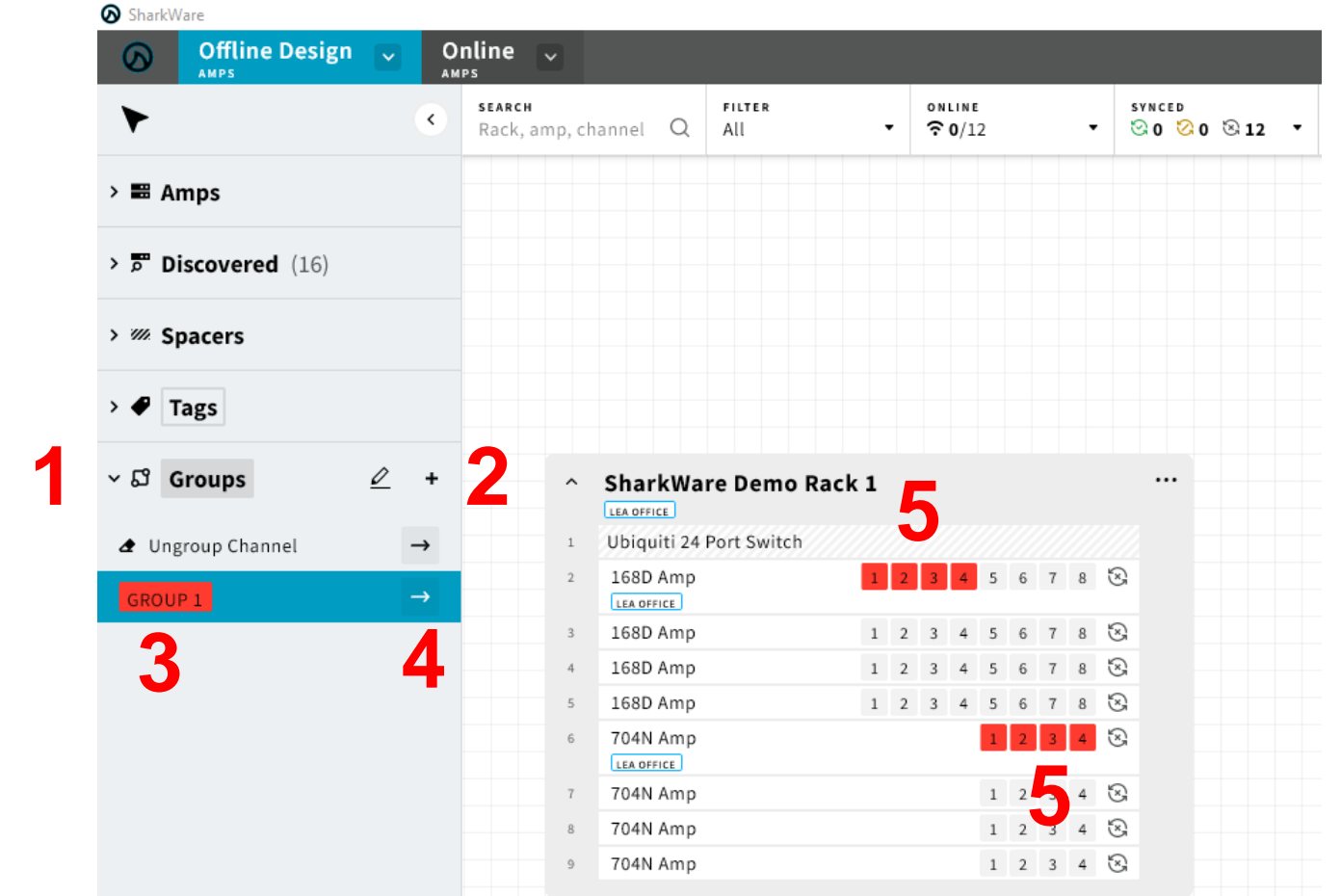
- Click on 

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



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:

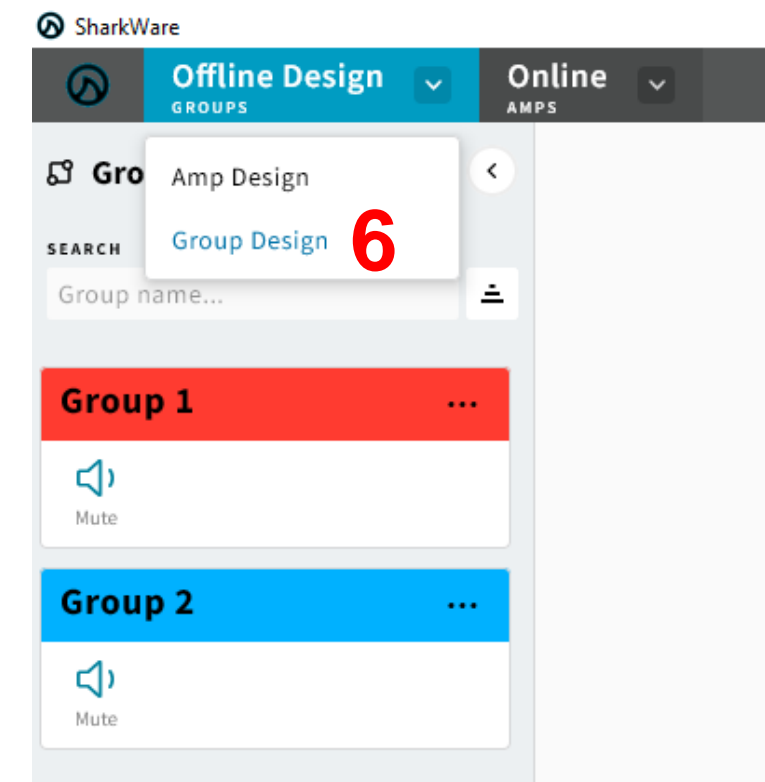
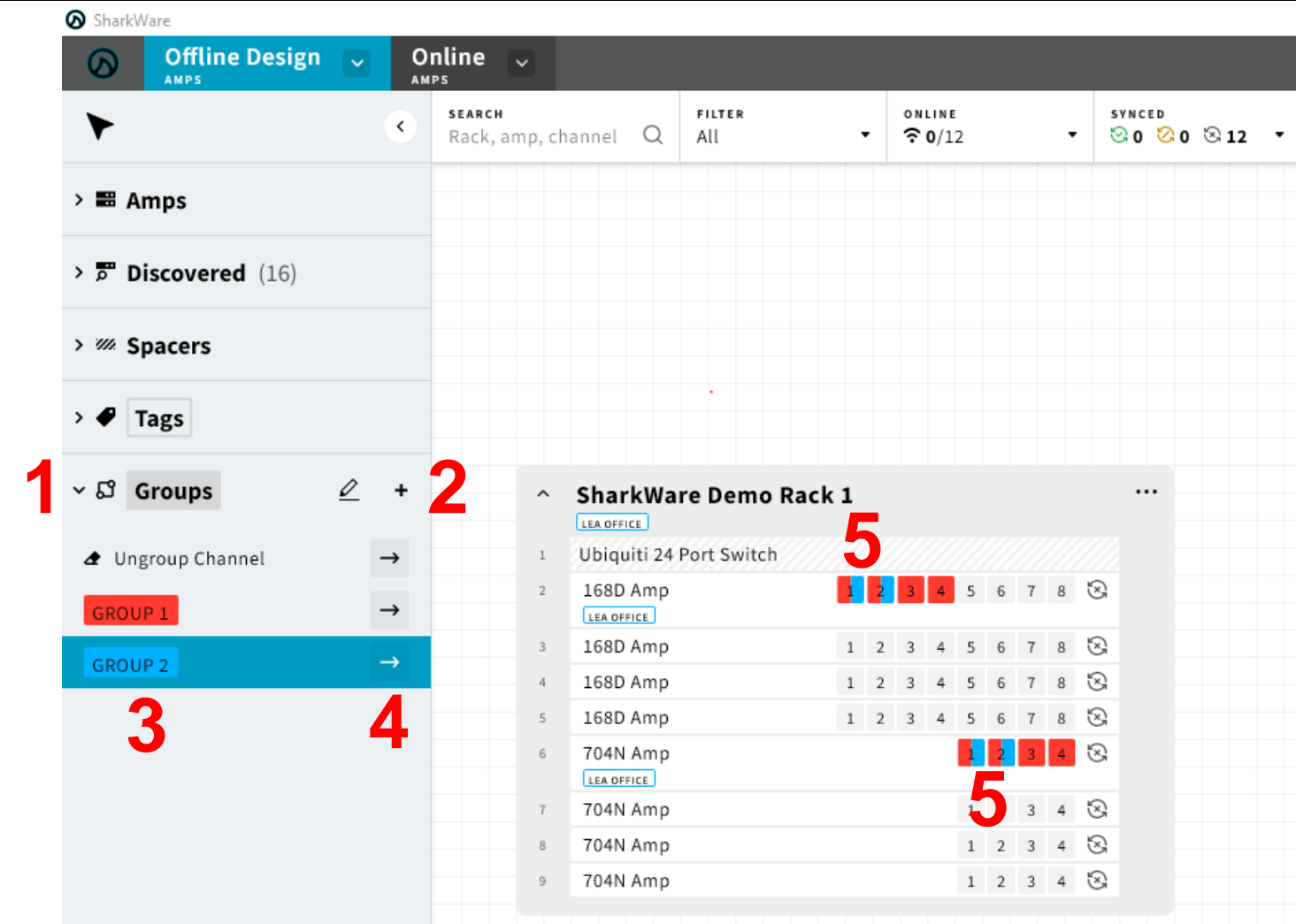
- Click on 

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




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:

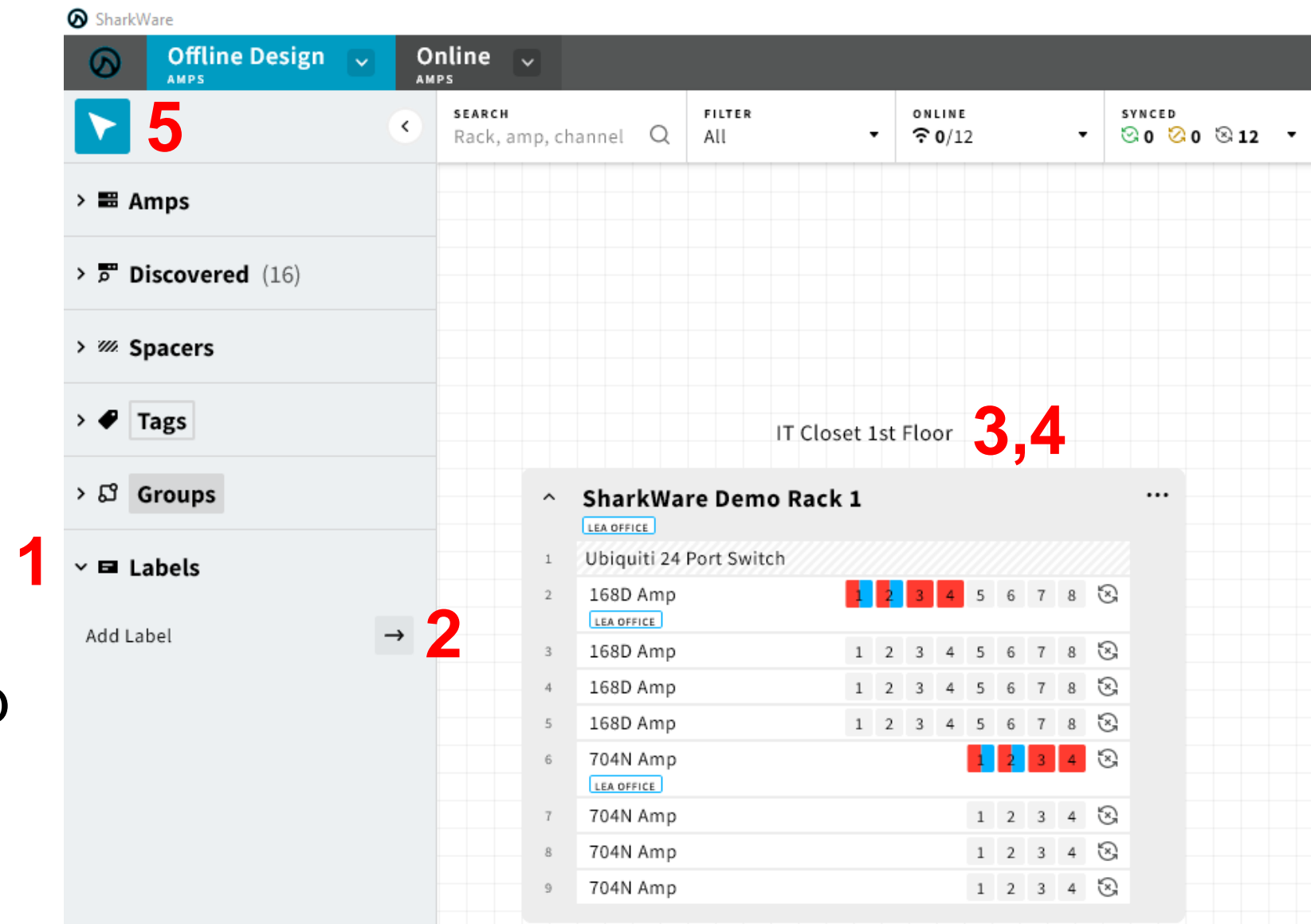
- Click into the design canvas

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





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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**

The screenshot shows the SharkWare software interface. The top navigation bar includes 'Offline Design' and 'Online' tabs. A search bar contains 'Rack, amp, channel'. The 'Discovered' section lists 16 amplifiers with their model names and IP addresses. On the right, two racks are shown: 'SharkWare Demo Rack 1' and 'Rack'. The 'SharkWare Demo Rack 1' contains a Ubiquiti 24 Port Switch and several amplifiers (168D and 704N) with their ports assigned to specific channels. The 'Rack' contains four 168D amplifiers.

MODEL	SORT BY
View All	Name
168D • 8 Ch • 10.8.3.166	
DeviceName	
168D • 8 Ch • 10.8.2.31	
DeviceName	
702D • 2 Ch • 10.8.3.100	
DeviceName	
354D • 4 Ch • 10.8.2.76	
DeviceName	
168D • 8 Ch • 10.8.2.89	
DeviceName	
354D • 4 Ch • 10.8.2.182	
DeviceName	
1504D • 4 Ch • 10.8.3.127	
DeviceName	
1504D • 4 Ch • 10.8.2.62	
DeviceName	
168N • 8 Ch • 10.8.2.104	
JP-2	
354N • 4 Ch • 10.8.3.249	
LEA Professional 352N	
352N • 2 Ch • 10.8.2.65	
Omega AMPed	
354N • 4 Ch • 10.8.2.184	
SharkWare 168D Demo	
168D • 8 Ch • 10.8.3.199	
SharkWare 704 Demo	
704N • 4 Ch • 10.8.2.154	

IT Closet 1st Floor

SharkWare Demo Rack 1

Device	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
Ubiquiti 24 Port Switch								
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8
704N Amp	1	2	3	4				
704N Amp	1	2	3	4				
704N Amp	1	2	3	4				
704N Amp	1	2	3	4				

Rack

Device	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8
168D Amp	1	2	3	4	5	6	7	8



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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'

The screenshot shows the SharkWare interface with the 'Offline Design' tab selected. The 'Discovered' section (1) lists various network devices. A '704N Amp' is selected (2), and its status changes to 'ONLINE' with a green stripe. This amp is then assigned to a slot in the 'SharkWare Demo Rack 1' (3), which is part of the 'IT Closet 1st Floor'.

Discovered Amps List:

DeviceName	Model
DeviceName	88N • 8 Ch • 10.8.3.120
DeviceName	168D • 8 Ch • 10.8.3.166
DeviceName	168D • 8 Ch • 10.8.2.31
DeviceName	702D • 2 Ch • 10.8.3.100
DeviceName	354D • 4 Ch • 10.8.2.76
DeviceName	168D • 8 Ch • 10.8.2.89
DeviceName	354D • 4 Ch • 10.8.2.182
DeviceName	1504D • 4 Ch • 10.8.3.127
DeviceName	1504D • 4 Ch • 10.8.2.62
DeviceName	168N • 8 Ch • 10.8.2.104
JP-2	354N • 4 Ch • 10.8.3.249
LEA Professional 352N	352N • 2 Ch • 10.8.2.65
Omega AMPed	354N • 4 Ch • 10.8.2.184
SharkWare 168D Demo	168D • 8 Ch • 10.8.3.199

Rack Configuration:

Rack	Slot	Device	Ports
SharkWare Demo Rack 1	1	Ubiquiti 24 Port Switch	
	2	168D Amp	1, 2, 3, 4
	3	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	4	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	5	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	6	704N Amp	1, 2, 3, 4
	7	704N Amp	1, 2, 3, 4
	8	704N Amp	1, 2, 3, 4
	9	704N Amp	1, 2, 3, 4
Rack	1	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	2	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	3	168D Amp	1, 2, 3, 4, 5, 6, 7, 8
	4	168D Amp	1, 2, 3, 4, 5, 6, 7, 8



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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'



1

2

The screenshot shows the SharkWare interface with two tabs: 'Offline Design' and 'Online'. The 'Offline Design' tab is active, showing a list of 'Discovered' amps. A red '1' points to the 'Discovered' section. The 'Online' tab shows a rack named 'SharkWare 168D Demo' with a red '3' pointing to it. The rack contains several devices, including a Ubiquiti 24 Port Switch and multiple 168D and 704N Amps. A red '2' points to the 'SharkWare 168D Demo' amp in the rack, which has a green stripe next to it. The interface also shows search filters, sync status, and a grid view of the rack layout.



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Offline System Design – Discovered

Add Discovered Amps to Existing Offline Design Rack

Step 1:

- Click on 'Discovered'

Step 2:

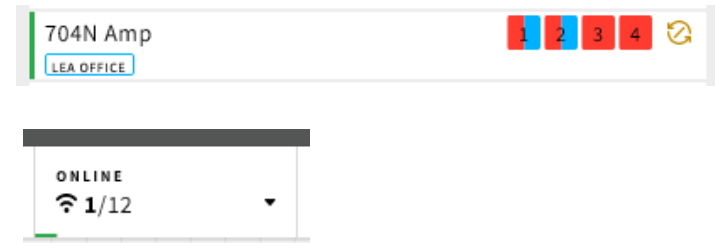
- Click on amp you want to add to Existing Offline Design Rack

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'



SharkWare

Offline Design AMPS | Online AMPS

SEARCH: Rack, amp, channel | FILTER: All | ONLINE: 2/13 | SYNCED: 1 1 11

> Amps

1 **Discovered (14)**

SEARCH: Search name, model, IP...

MODEL: View All | SORT BY: Name

352N • 2 Ch • 10.8.3.234

1_Kevin's Desk 88N
88N • 8 Ch • 10.8.3.120

DeviceName
168D • 8 Ch • 10.8.3.166

DeviceName
168D • 8 Ch • 10.8.2.31

DeviceName
702D • 2 Ch • 10.8.3.100

DeviceName
354D • 4 Ch • 10.8.2.76

DeviceName
168D • 8 Ch • 10.8.2.89

DeviceName
354D • 4 Ch • 10.8.2.182

DeviceName
1504D • 4 Ch • 10.8.3.127

DeviceName
1504D • 4 Ch • 10.8.2.62

DeviceName
168N • 8 Ch • 10.8.2.104

JP-2
354N • 4 Ch • 10.8.3.249

LEA Professional 352N
352N • 2 Ch • 10.8.2.65

Omega AMPed
354N • 4 Ch • 10.8.2.184

IT Closet 1st Floor

SharkWare Demo Rack 1

LEA OFFICE

1 Ubiquiti 24 Port Switch

3 SharkWare 168D Demo 1 2 3 4 5 6 7 8

3 168D Amp 1 2 3 4 5 6 7 8

LEA OFFICE

4 168D Amp 1 2 3 4 5 6 7 8

5 168D Amp 1 2 3 4 5 6 7 8

6 168D Amp 1 2 3 4 5 6 7 8

7 704N Amp 1 2 3 4

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8 704N Amp 1 2 3 4

9 704N Amp 1 2 3 4

10 704N Amp 1 2 3 4

Rack

1 168D Amp 1 2 3 4 5 6 7 8

2 168D Amp 1 2 3 4 5 6 7 8

3 168D Amp 1 2 3 4 5 6 7 8

4 168D Amp 1 2 3 4 5 6 7 8

2

3



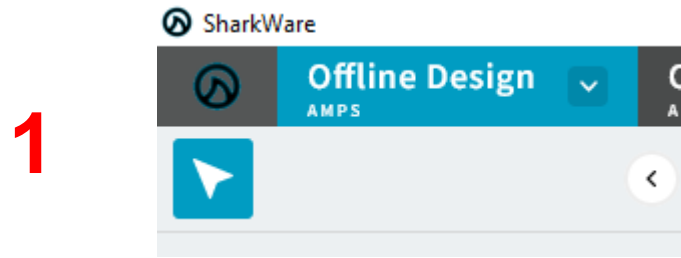
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Offline System Design – Amp Configuration

Amp Configuration

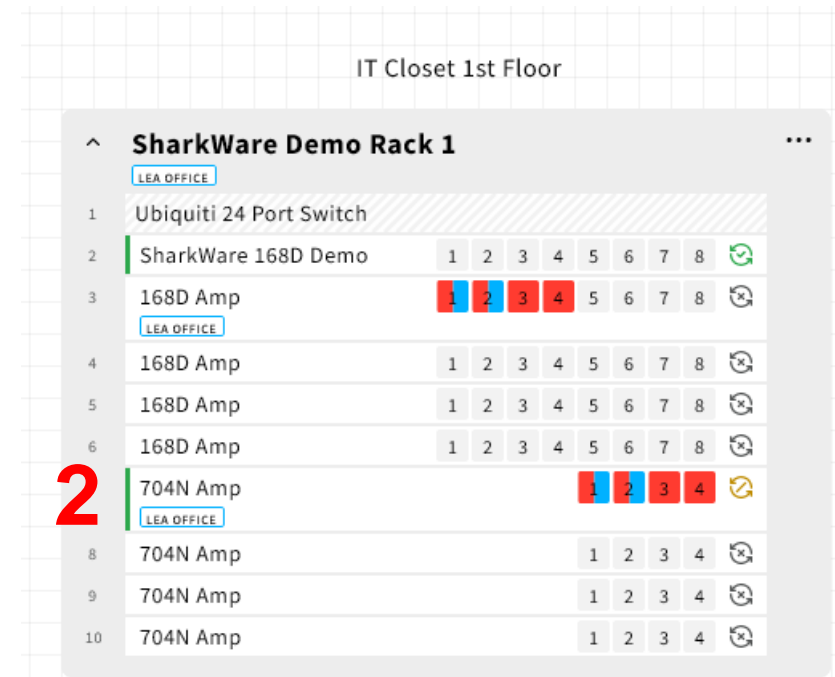
Step 1:

- Click on  in the top left



Step 2:

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

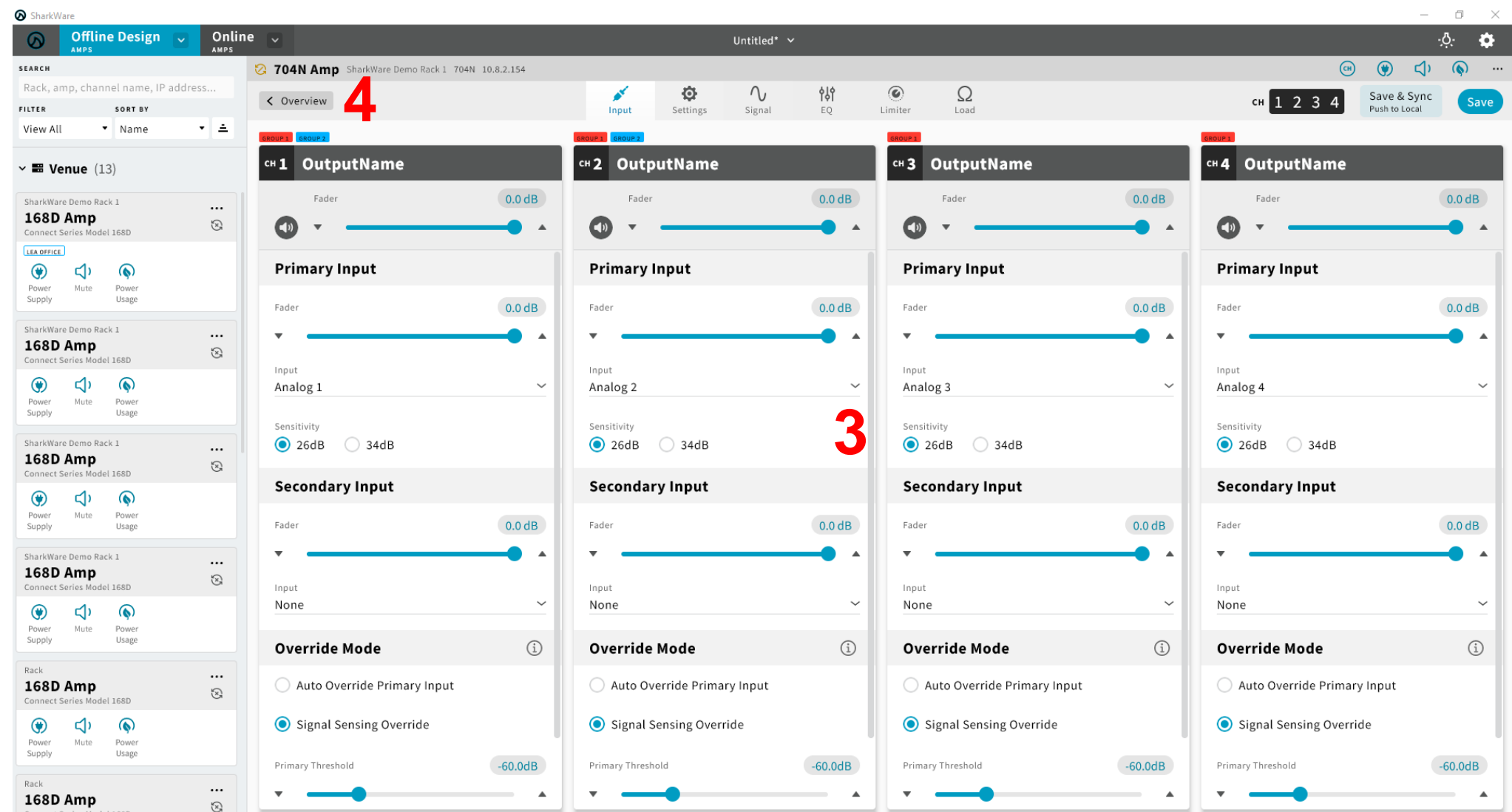


Step 3:

- Configure the amp

Step 4:

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





Offline System Design – Group Configuration

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Group Configuration

Step 1:

- Click on the  next to Offline Design and select 'Group Design'

Step 2:

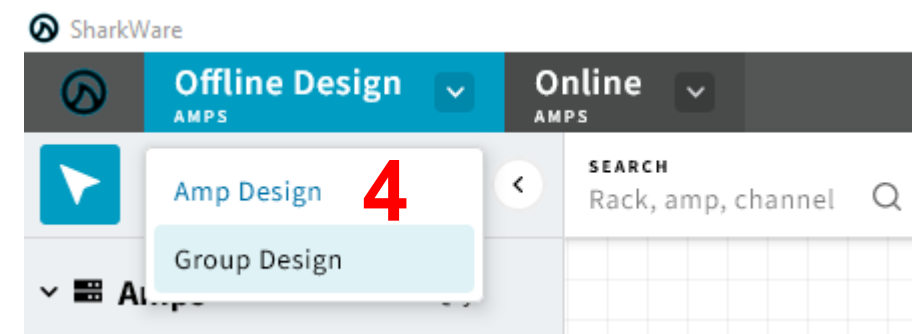
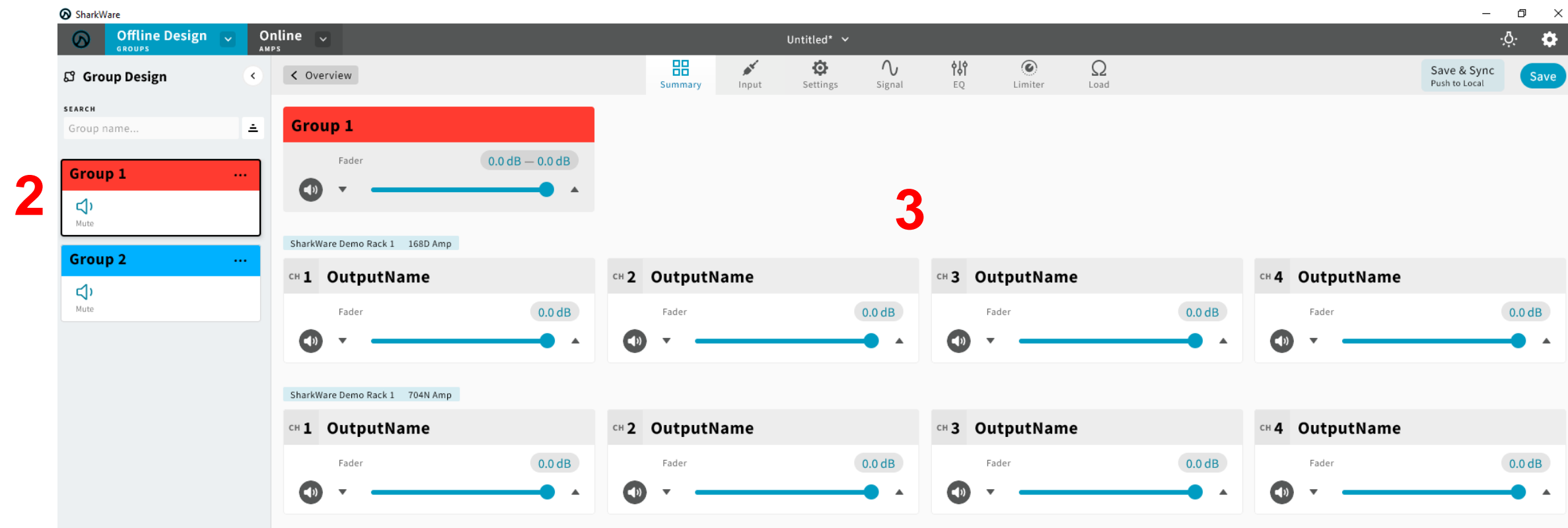
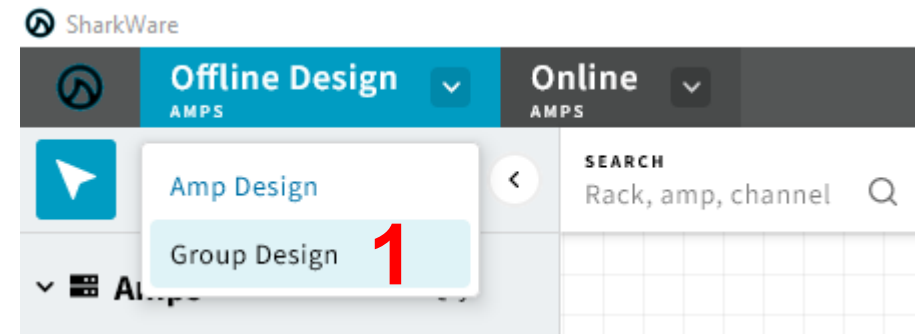
- Select which Group you would like to configure

Step 3:

- Configure the Group

Step 4:

- Click on the  next to Offline Design and select 'Amp Design' to go back to Design Canvas





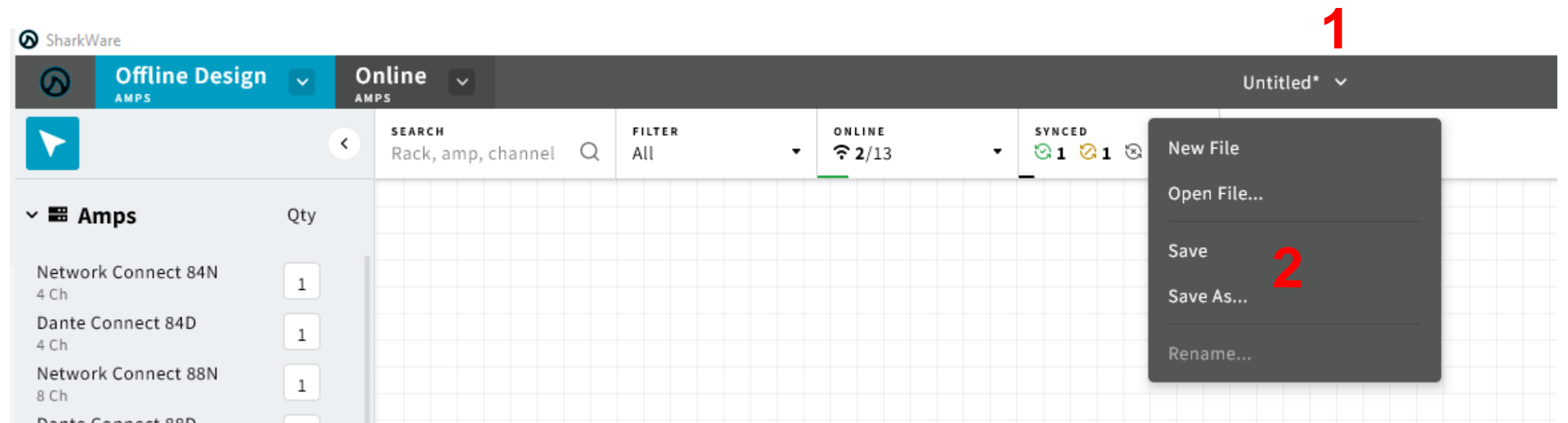
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Offline System Design – Saving the Design File

Saving the Design File

Step 1:

- Click on the  in the top center of SharkWare

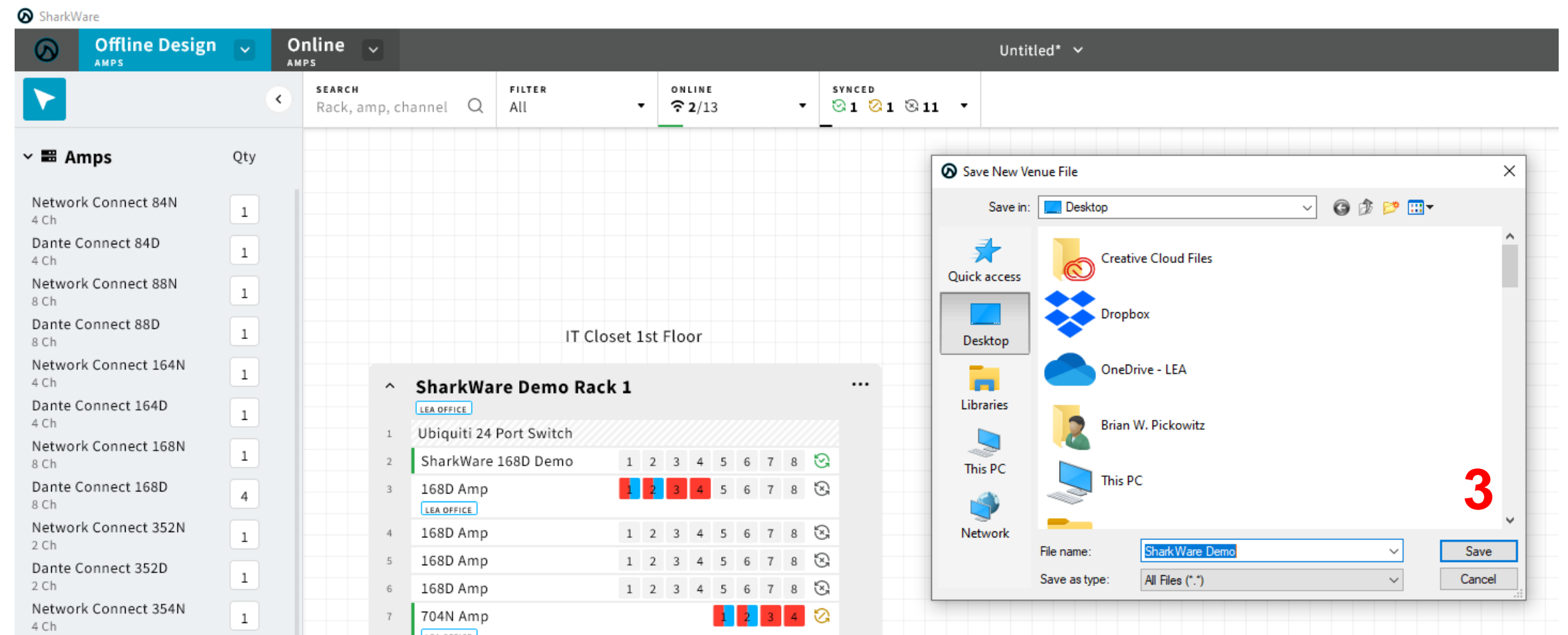


Step 2:

- Select 'Save' or 'Save As' based on your preference

Step 3:

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

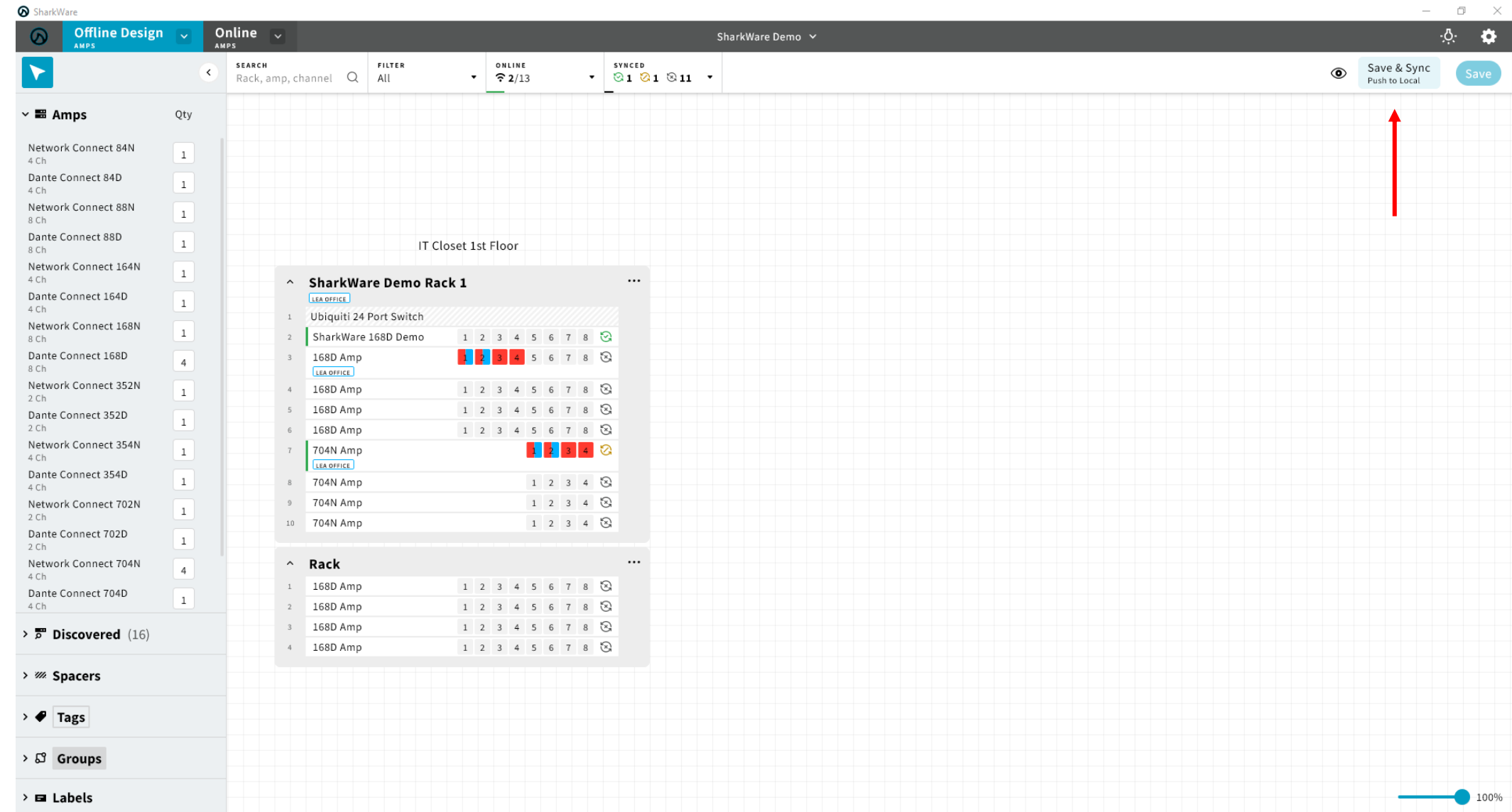
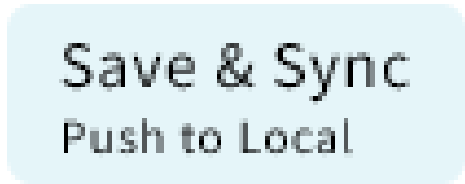


Save & Sync – Push to Local

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



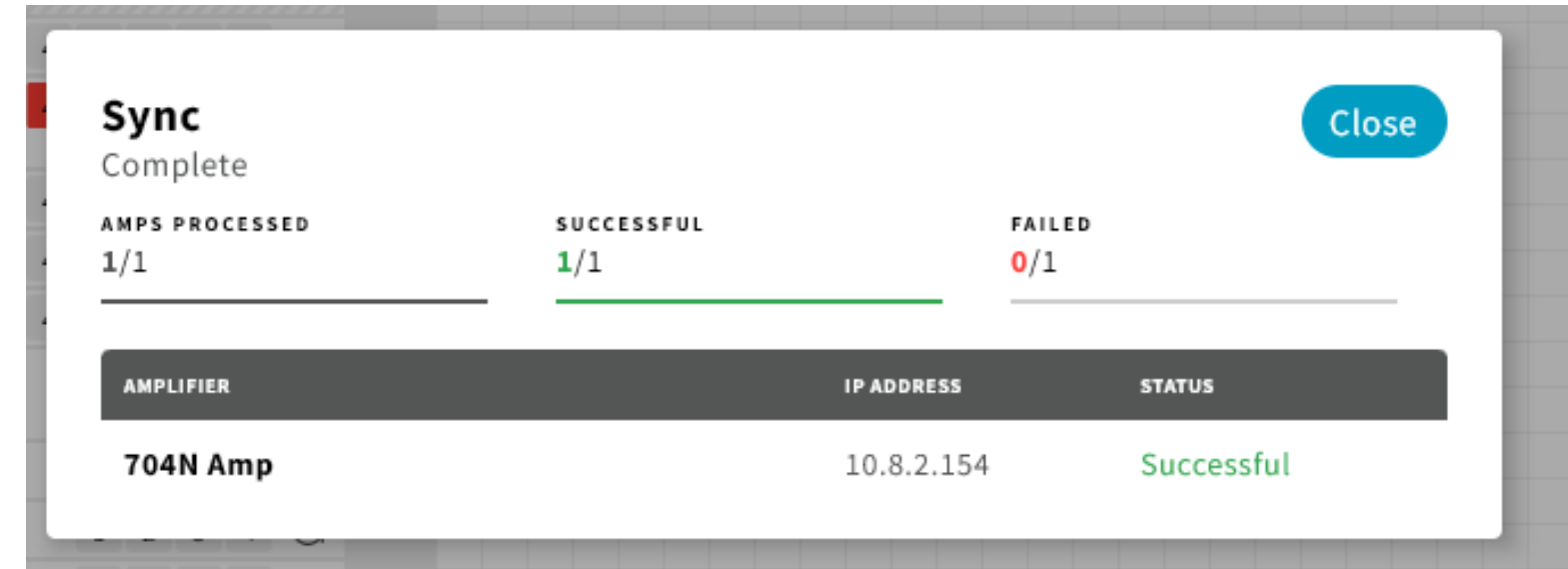


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Syncing Offline to Online Design

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.

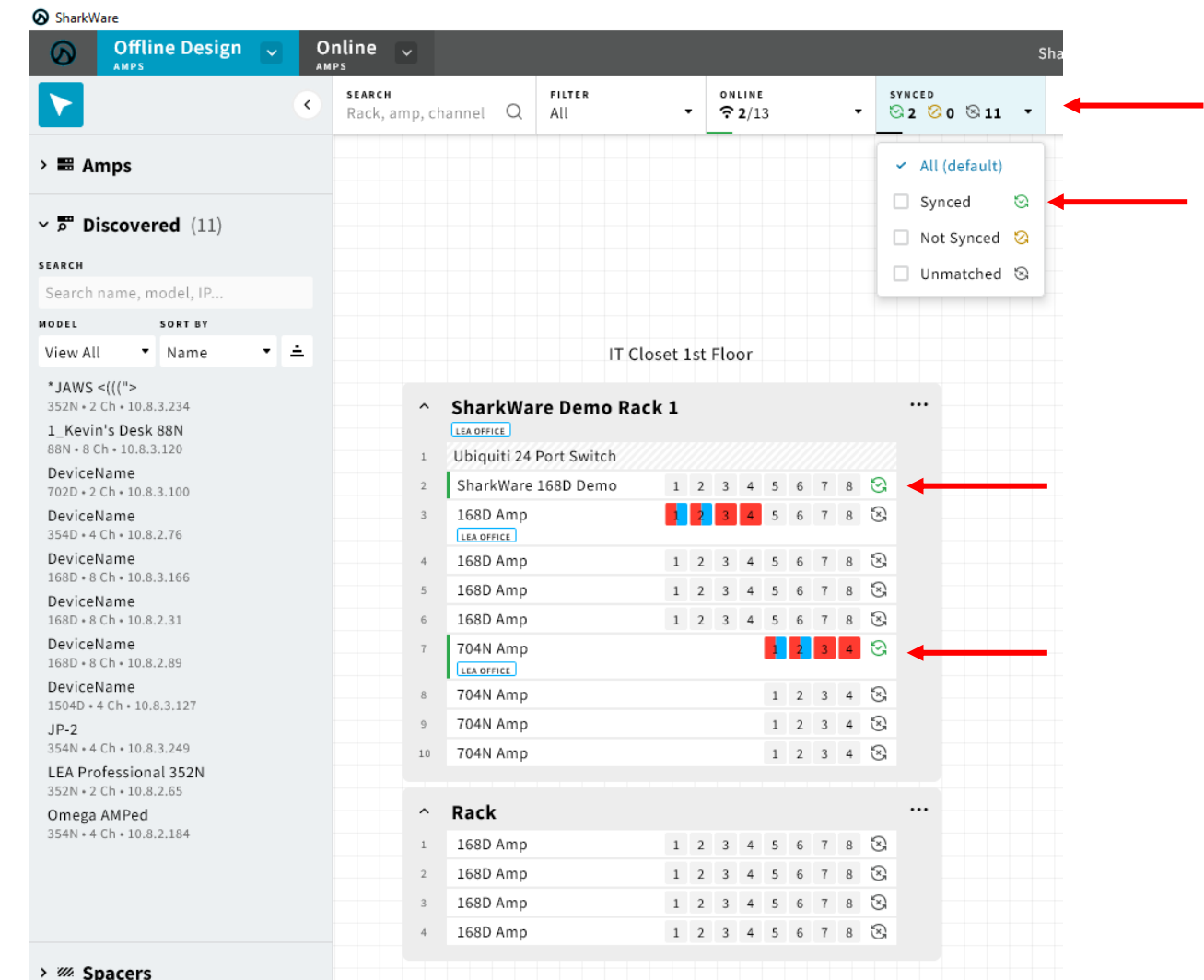


Synced, Not Synced, Unmatched

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

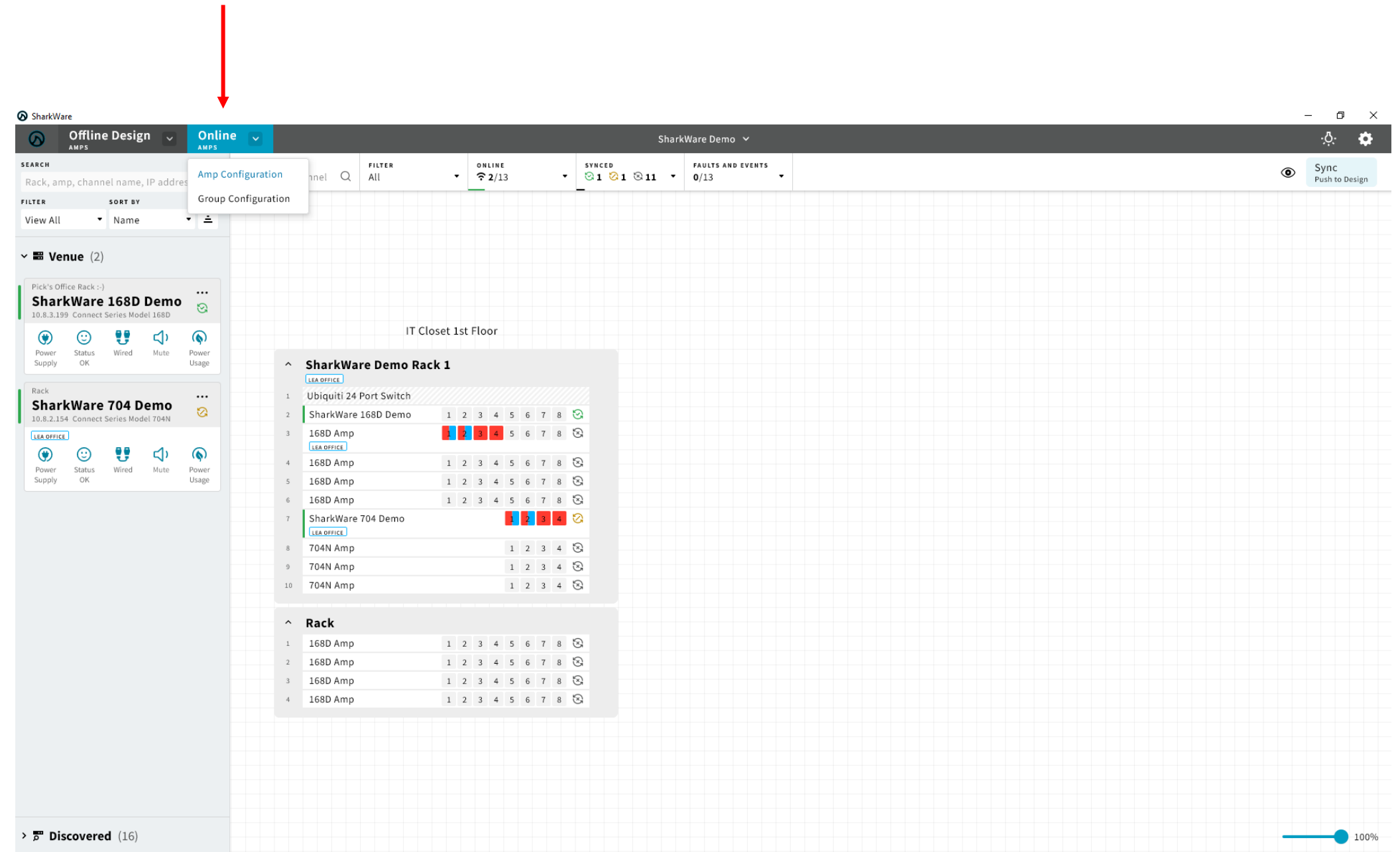


Online Mode

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





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Online Mode – Amp Control and Monitoring

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'

The screenshot shows the SharkWare software interface. At the top, there is a navigation bar with 'Offline Design' and 'Online AMPS' tabs. A red arrow points to the 'Online AMPS' tab, which has a dropdown menu open showing 'Amp Configuration' and 'Group Configuration'. Below the navigation bar, there is a search bar and a filter section. The main area displays a list of venues under the heading 'Venue (2)'. Two venues are listed: 'SharkWare 168D Demo' and 'SharkWare 704 Demo'. Each venue has a set of control icons: Power Supply, Status, Wired, Mute, and Power Usage. The 'SharkWare 168D Demo' venue is expanded, showing a detailed view of the 'IT Closet 1st Floor'. This view includes a rack labeled 'SharkWare Demo Rack 1' with 10 slots. Slot 1 contains a 'Ubiquiti 24 Port Switch'. Slots 2-6 contain 'SharkWare 168D Demo' units, each with 8 ports. Slots 7-10 contain 'SharkWare 704 Demo' units, each with 4 ports. A 'Rack' section at the bottom shows 4 '168D Amp' units, each with 8 ports. The interface also shows a 'Discovered (16)' section at the bottom left and a 'Sync Push to Design' button at the bottom right.

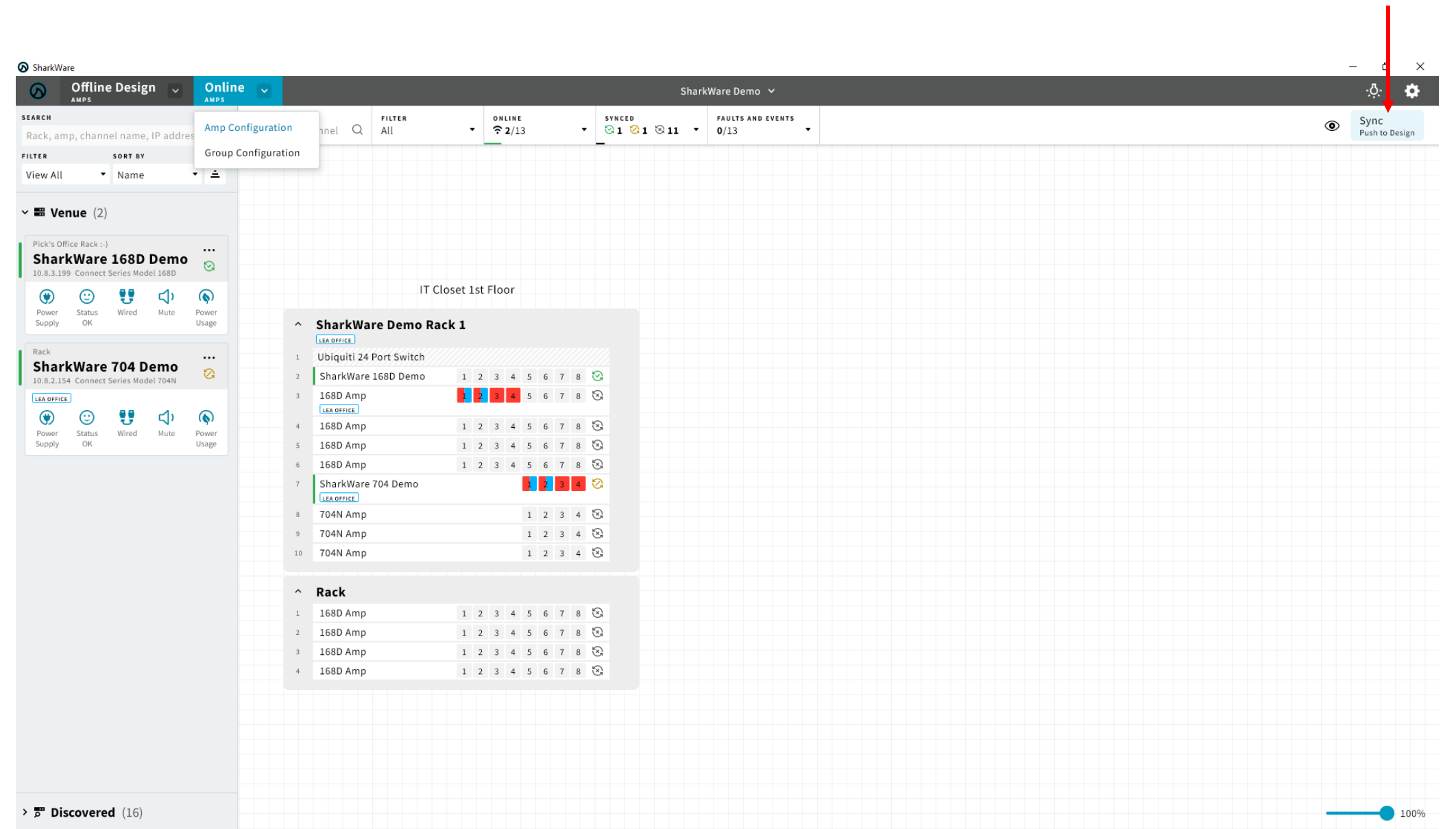
Sync Push to Design

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.

Sync
Push to Design





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Online Mode – Group Control and Monitoring

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.

The screenshot displays the SharkWare software interface in 'Online Mode'. The top navigation bar includes 'Offline Design' and 'Online' (selected). The 'Online' menu is open, showing 'Amp Configuration' and 'Group Configuration'. The main area is divided into two sections for 'SharkWare Demo Rack 1'. The top section is for a '168D Amp' and the bottom for a '704N Amp'. Each rack has four channels (CH 1 to CH 4) with 'OutputName' labels. The '168D Amp' channels are currently 'Unmatched'. The '704N Amp' channels have faders and status indicators. A red arrow points to the 'Online' menu item.



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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:

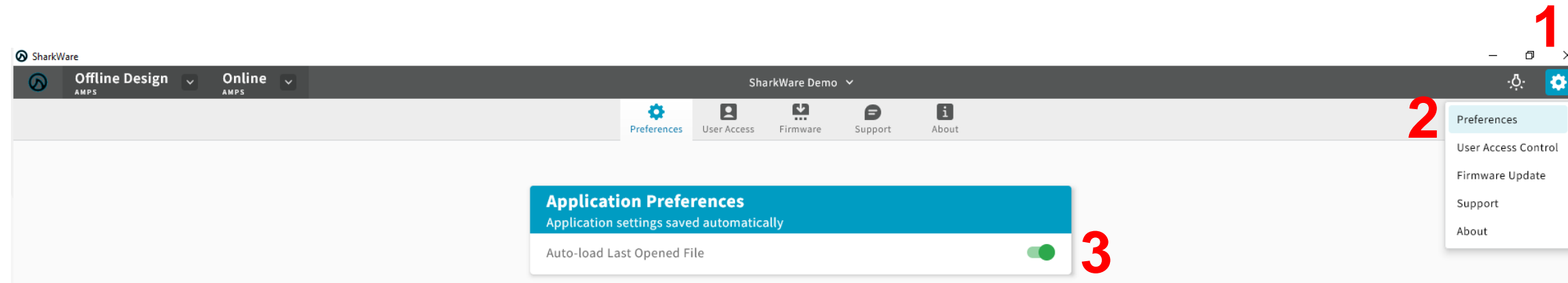
- Click on the  icon in the top right

Step 2:

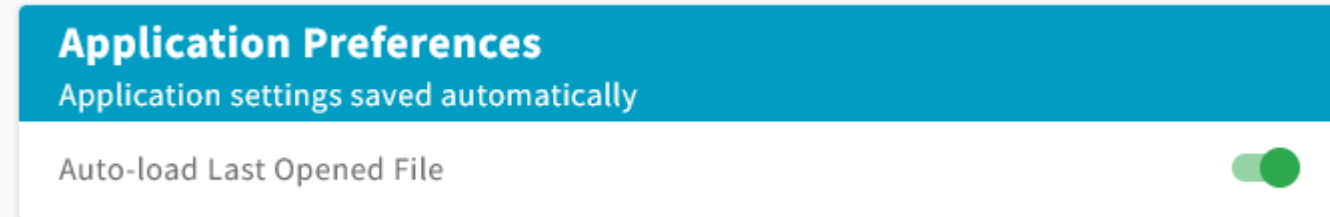
- Select 'Preferences'

Step 3:

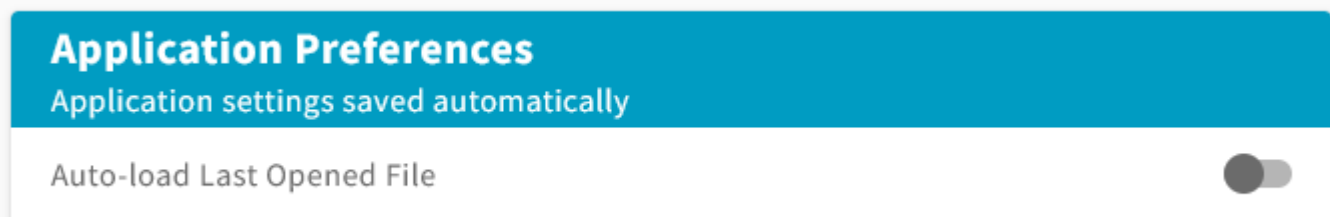
- Enable or Disable Auto-Load Last Opened File




Auto-Load is Enabled



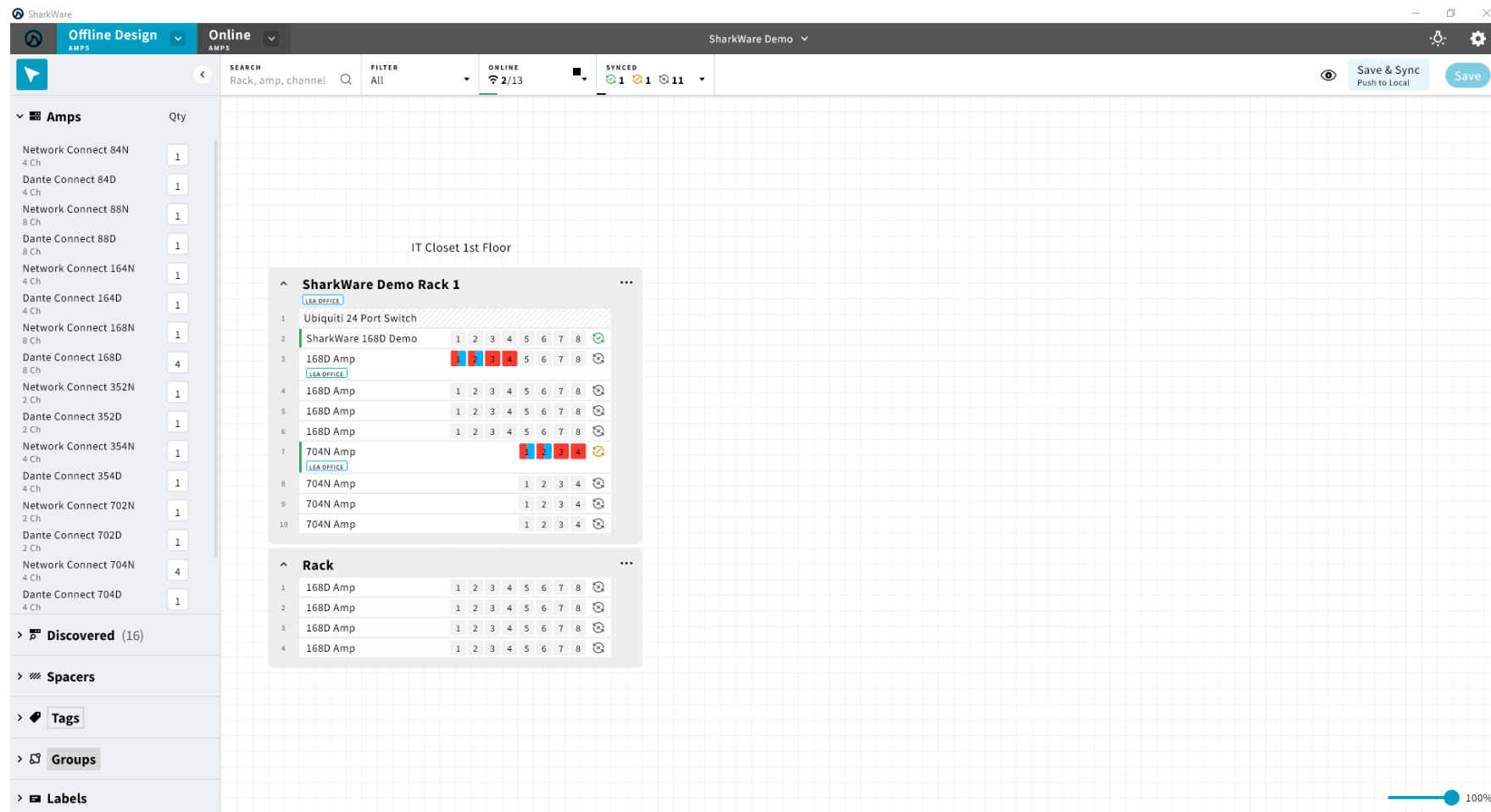
Auto-Load is Disabled



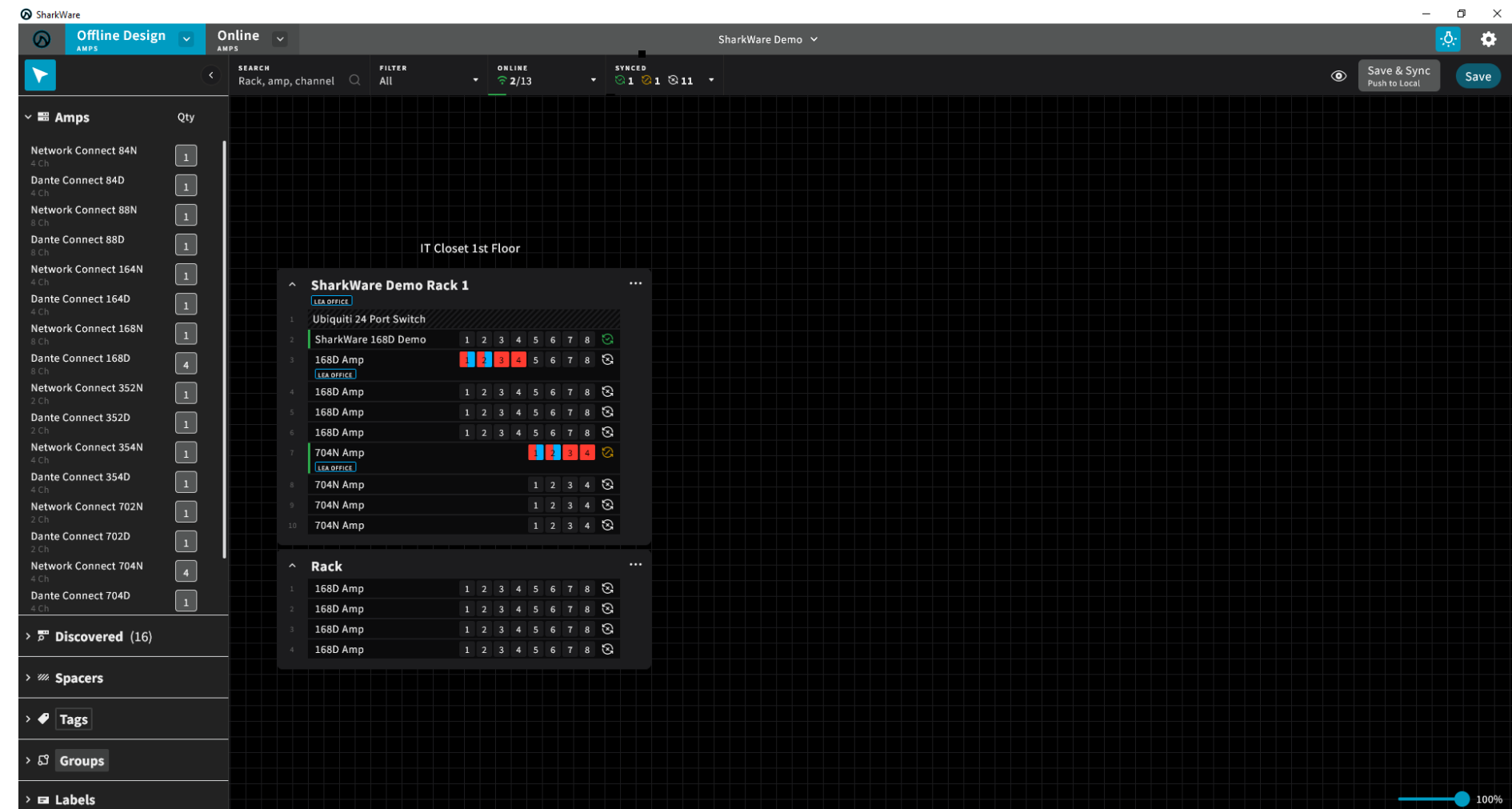
Toggle Light and Dark Mode

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


Light Mode



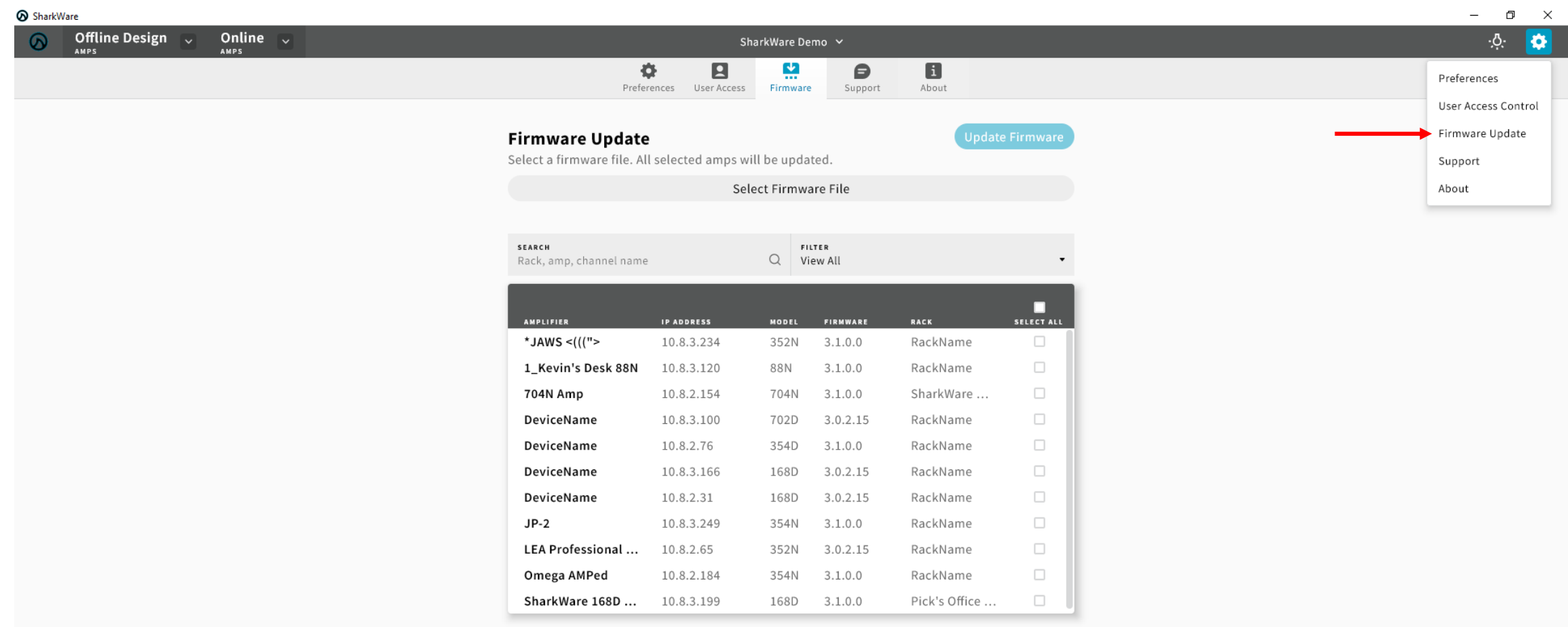
Dark Mode



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 3.1.0.0 or higher)
- Then click 'Update Firmware'



The screenshot shows the SharkWare interface with the 'Firmware Update' section active. The top right settings menu is open, and a red arrow points to the 'Firmware Update' option. The main content area displays a table of devices with columns for Amplifier, IP Address, Model, Firmware, Rack, and a 'SELECT ALL' checkbox.

AMPLIFIER	IP ADDRESS	MODEL	FIRMWARE	RACK	SELECT ALL
*JAWS <((((">	10.8.3.234	352N	3.1.0.0	RackName	<input type="checkbox"/>
1_Kevin's Desk 88N	10.8.3.120	88N	3.1.0.0	RackName	<input type="checkbox"/>
704N Amp	10.8.2.154	704N	3.1.0.0	SharkWare ...	<input type="checkbox"/>
DeviceName	10.8.3.100	702D	3.0.2.15	RackName	<input type="checkbox"/>
DeviceName	10.8.2.76	354D	3.1.0.0	RackName	<input type="checkbox"/>
DeviceName	10.8.3.166	168D	3.0.2.15	RackName	<input type="checkbox"/>
DeviceName	10.8.2.31	168D	3.0.2.15	RackName	<input type="checkbox"/>
JP-2	10.8.3.249	354N	3.1.0.0	RackName	<input type="checkbox"/>
LEA Professional ...	10.8.2.65	352N	3.0.2.15	RackName	<input type="checkbox"/>
Omega AMPed	10.8.2.184	354N	3.1.0.0	RackName	<input type="checkbox"/>
SharkWare 168D ...	10.8.3.199	168D	3.1.0.0	Pick's Office ...	<input type="checkbox"/>

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