



DISH Hopper and Joey IP Driver Integration Release Notes

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Introduction

The release of the DISH Hopper and Joey IP drivers allows you to integrate your DISH Hopper and Joey devices with Clare Home over IP.

No software installation or download is necessary. Simply install the DISH devices, set a DHCP reservation, pair it in Fusion, and then add your Joey devices.

Installation

Only qualified technicians should install and connect devices used with Clare Controls products. Refer to the installation instructions that came with your DISH devices. Clare Controls does not assume any responsibility for damages caused by improper installation or connection to the network.

Notes

- A DHCP reservation must be set for the Hopper.
- You must pair the Hopper to your project.
- You must know the Hopper's Receive CA ID and enable the device for pairing.

To get the Hopper's Receive CA ID:

1. Access the TV and connected Hopper device.
2. Using the DISH Hopper remote, press **Menu** twice.
3. The Hopper device's information displays.
4. Note the Receive CA ID, this is required for Fusion configuration.

To enable pairing request in the Hopper:

Note: To use the Hopper with ClareHome, you must pair the device. Verify that pairing is enabled on your Hopper.

1. Access the Hopper's menu, and then browse to **Pairing Device**.

Menu > Settings > Pairing Device

2. The Pairing Request checkbox displays. Select Enable.
3. Exit the Hopper menu.

Configuring in Fusion

Configure the Hopper and Joey devices in Fusion to enable use with ClareHome and the Clare Controls UI.

To add the Hopper:

1. Access your project in Fusion.
2. Click the **Devices** tab, and then click the **New Device** button .

The Select Template dialog displays.



3. Browse to the Dish Network Hopper.

Entertainment IP Devices > Cable/Sat TV Tuner > Dish Network Hopper

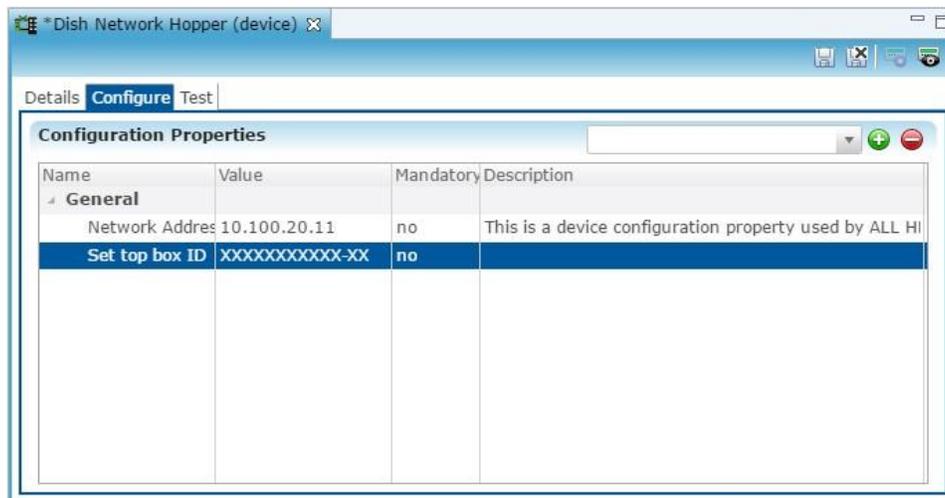
4. Click **OK**.

The **Details** tab displays.



5. Enter a name and notes for the Hopper.

6. Click the **Configure** tab.



7. Enter values in the following fields:

Network Address: The Hopper's IP address.

Set top box ID: The Hopper's Receive CA ID. See "To get the Hopper's Receive CA ID," on page 2.

8. Click the **Save** button , and then deploy the project.

9. Add the Joey devices.

If you are not adding a Joey, deploy and then pair the Hopper.

To add a Joey:

Notes: Each Joey device being used must be added to the home's project in Fusion.

1. Access your project.
2. Click the **Devices** tab, and then click the **New Device** button .

The Select Template dialog displays.

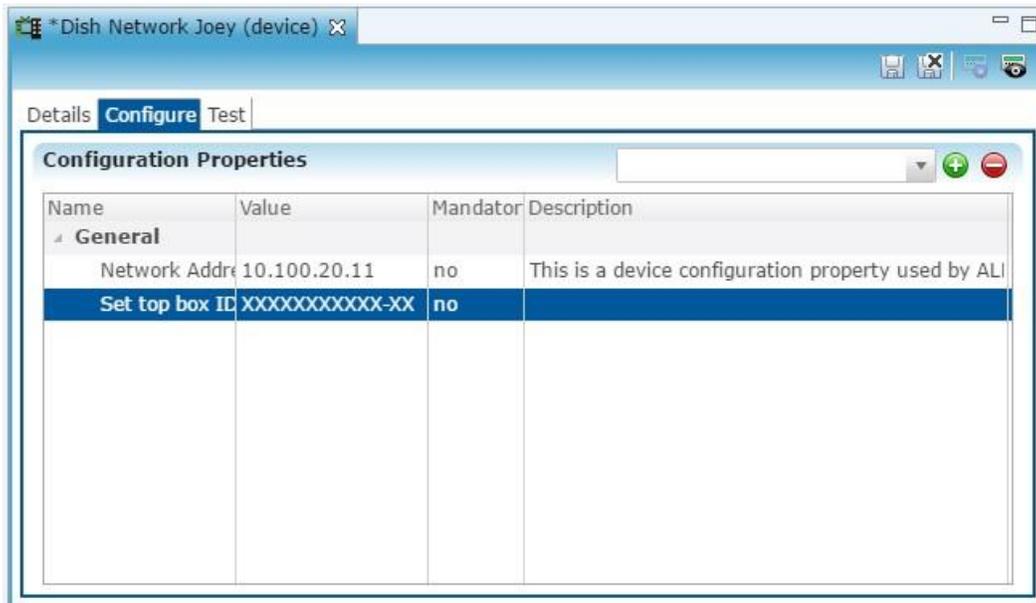


3. Browse to the Dish Network Joey.
Entertainment IP Devices > Cable/Sat TV Tuner > Dish Network Joey
4. Click **OK**.

The **Details** tab displays.



5. Enter a name and notes for the Joey.
6. Click the **Configure** tab.



7. Enter values in the following fields:

Network Address: The Hopper's IP address.

Note: Do not use the Joey's IP address. You must use the parent device's (Hopper) IP address. If you do not use the parent device's address, the devices will not communicate or function properly.

Set top box ID: The Joey's Receive CA ID. See "To get the Hopper's Receive CA ID" on page 2. Verify that you are using the correct Joey device for each ID.

8. Click the **Save** button .
9. Repeat steps 2 through 8 for each Joey, and then deploy the project.
Once you have added all Joey devices, pair the Hopper.

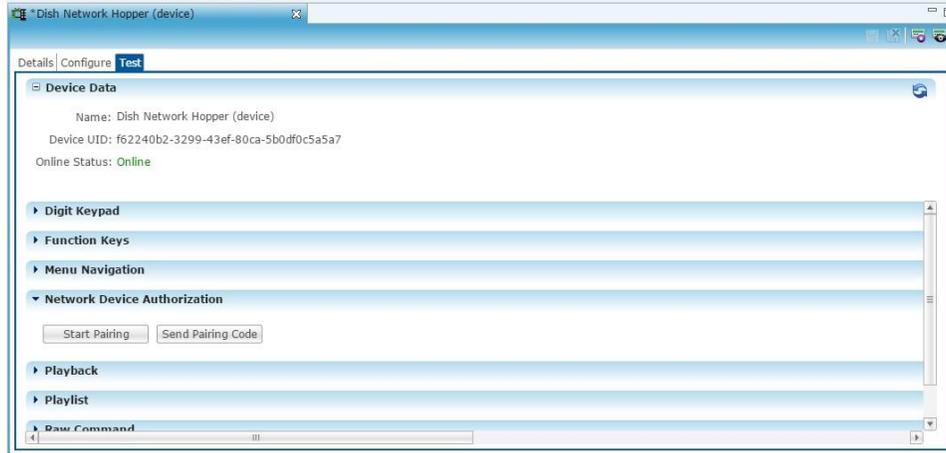
Pairing the Hopper

Notes

- The device must be deployed before it can be paired.
- Do not pair the Joey devices, only the Hopper must be paired.
- After you have configured the Hopper in Fusion and deployed the project, pair the device to your project. You will need to access the Hopper, TV, and Fusion.

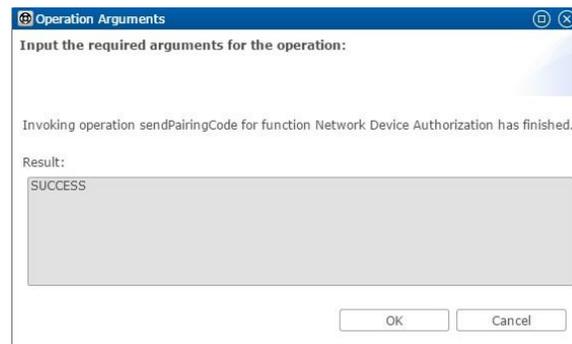
To pair the device to your project:

1. Verify that the Hopper stream is displaying on the TV screen.
2. Open the Hopper device in Fusion, and then click the **Test** tab.
3. Expand **Network Device Authorization**.



4. Click **Start Pairing**.

Fusion displays an Operation Arguments dialog.



5. Click **OK**.
6. Look at the TV displaying the Hopper.
A Remote Device Registration dialog displays. This dialog contains the Pin.
7. Click **Send Pairing Code**.

8. Enter the Pin in the Operations Arguments **IN1** field in Fusion, and then Click **Execute**.



9. The pairing result displays.

10. Click **OK**.

Create the desired service.

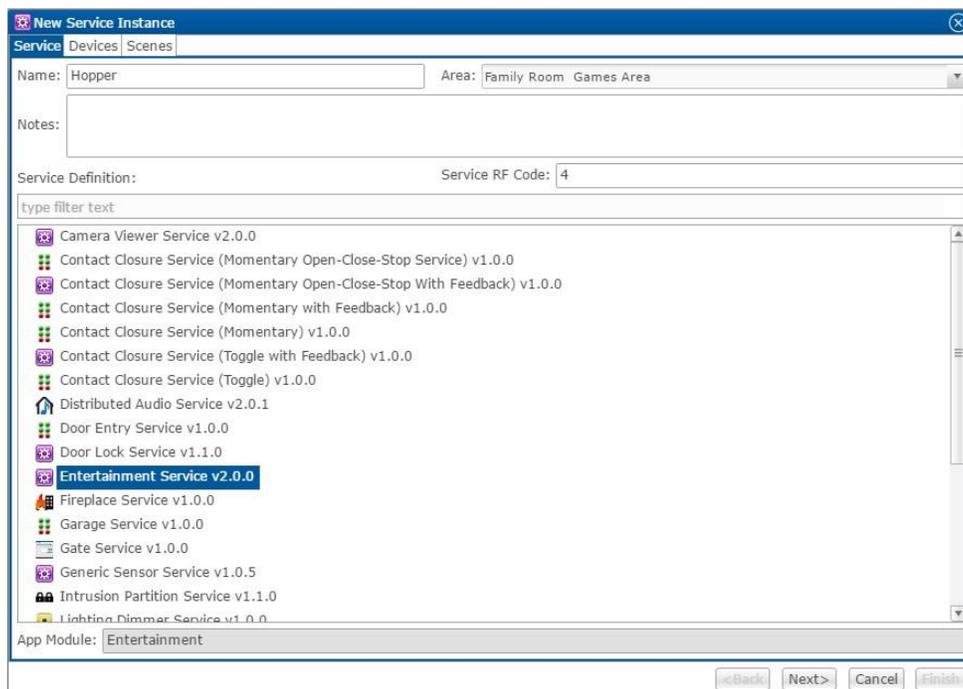
Creating a Service

Once you have added and paired the Hopper in Fusion create a service for the device.

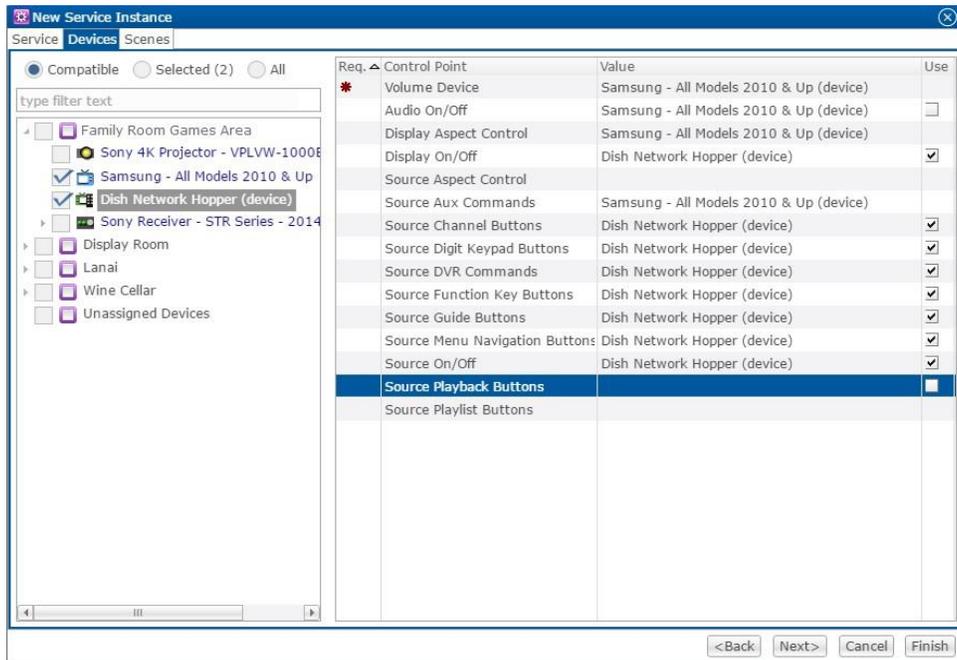
To create a service for the Hopper or Joey:

1. Click the **Services** tab, and then click the **New Service Instance** button .

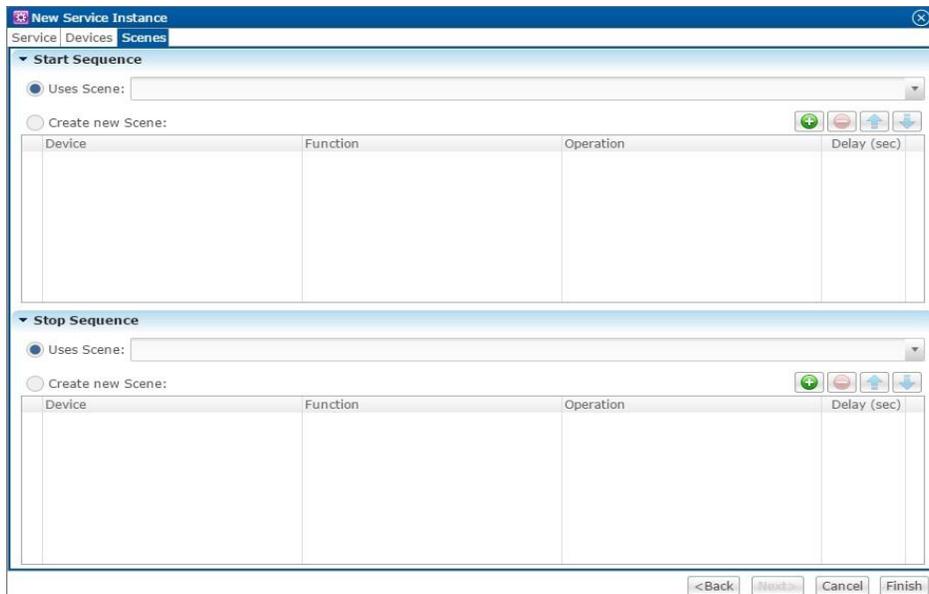
The New Service Instance dialog displays.



2. Enter the name of the service in the **Name** field, select the area, and then click **Entertainment Service**.
3. Click **Next** to display the **Devices** tab.

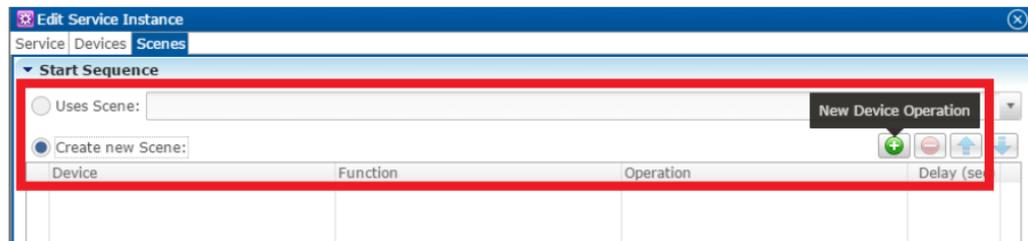


4. In the left panel, select the devices you want to use in the service.
5. In the right panel, set the values for each control point.
Click the **Value** field to view the drop-down menu, and then select the device.
6. Click **Next** to display the **Scenes** tab.



To configure the scene:

1. In the Start Sequence field, select Create new Scene, and then click the **New Device Operation** button .

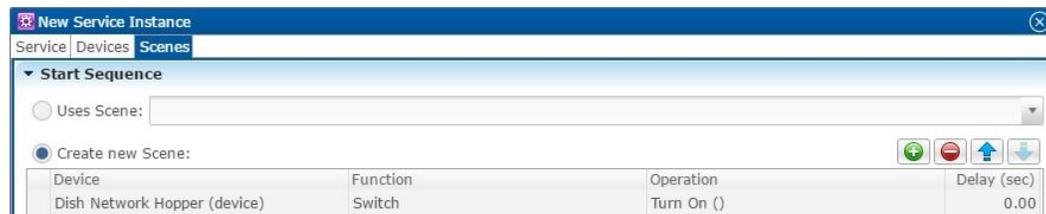


2. Configure the Device, Function, and Operation drop-down menus with the following values.

Device: Select the Dish Network Hopper.

Function: Select the desired function for the Hopper – for example, Switch.

Operation: The desired function state – for example, Turn On.



3. Repeat steps 1 and 2 for each device.

Note: Steps 1 and 2 can be repeated to make the selected device perform another action. For example, the Hopper turns on for the first action, and then 5 seconds later it displays the Title Menu.

4. Select the **Stop Sequence** field, select **Create New Scene**, and then click the **New Device Operation** button .



5. Configure the Device, Function, and Operation drop-down menus with the desired values.

The screenshot shows the 'New Service Instance' configuration window with the 'Scenes' tab selected. It contains two sections: 'Start Sequence' and 'Stop Sequence'. Each section has a 'Uses Scene:' dropdown and a 'Create new Scene:' section with a table of actions.

Start Sequence

Device	Function	Operation	Delay (sec)
Dish Network Hopper (device)	Switch	Turn On ()	0.00
Dish Network Hopper (device)	Menu Navigation	Title Menu ()	0.00
Samsung - All Models 2010 & Up (device)	Switch	Turn On ()	0.00

Stop Sequence

Device	Function	Operation	Delay (sec)
Dish Network Hopper (device)	Switch	Turn Off ()	0.00
Samsung - All Models 2010 & Up (device)	Switch	Turn Off ()	0.00

At the bottom of the window are buttons for '< Back', 'Next >', 'Cancel', and 'Finish'.

6. Repeat steps 4 and 5 for each device.
7. Click **Finish**.
8. Deploy your project.

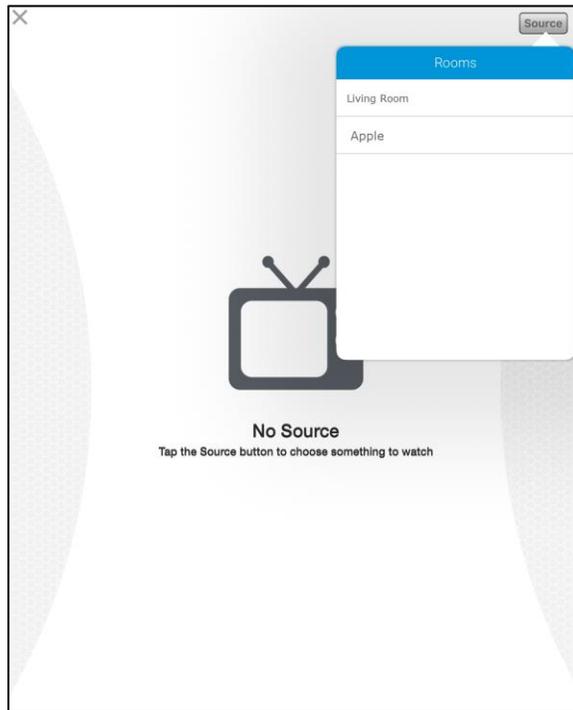
Accessing the UI

Once you have configured and deployed your project, access the entertainment service created for the projector.

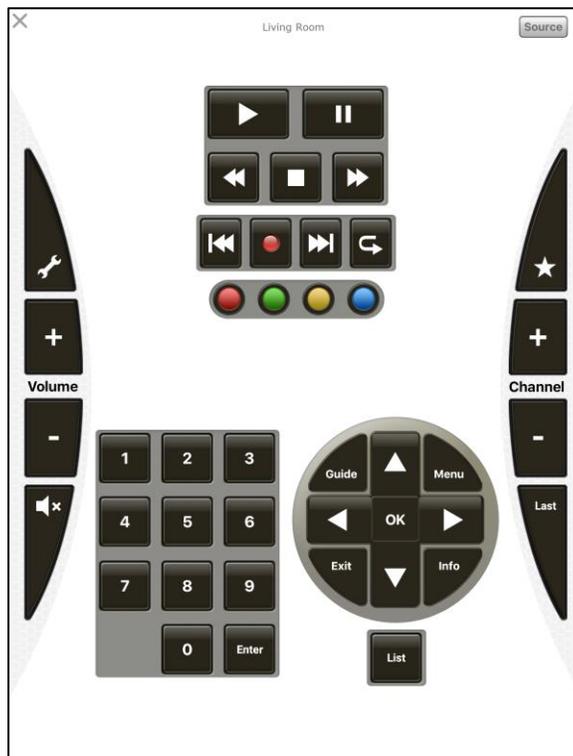
To access DirecTV in the ClareHome app from the user space:

1. Launch the ClareHome app, and then tap the desired entertainment icon. 

2. Tap **Source** in the top-right corner, and then select the projector source.



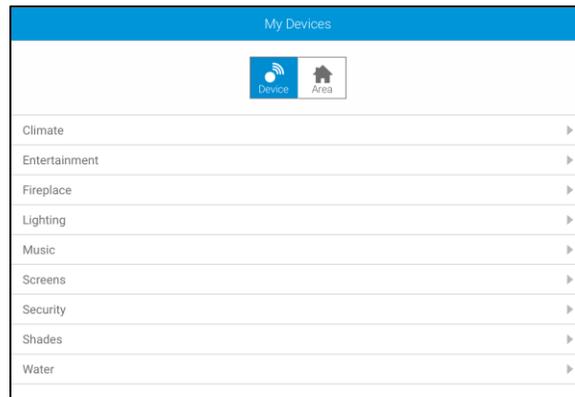
3. The DISH entertainment remote displays.



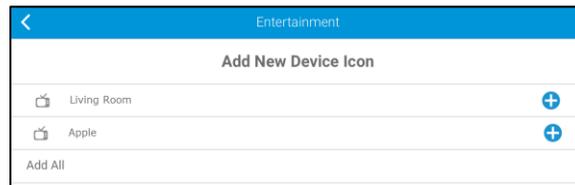
Note: The buttons on the virtual Clare Controls DISH remote correspond with the buttons configured Hopper control points.

To access the service if it has not been added to the user space:

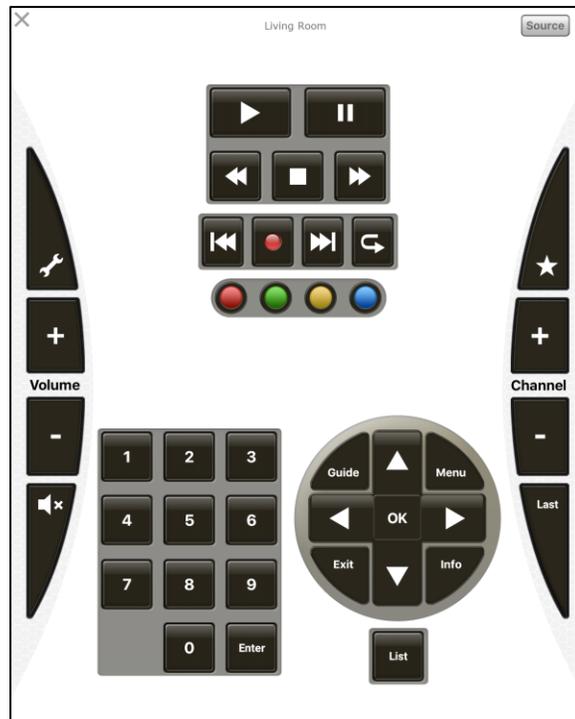
1. Tap  to view the Device's Menu.
2. Tap **Entertainment**.



3. Tap the area that you want to access – for example, Living Room.



The DISH entertainment remote displays.



Contact information

Clare Controls, LLC.
7519 Pennsylvania Ave, Suite 104
Sarasota, FL 34243

General: 941.328.3991

Fax: 941.870.9646

www.clarecontrols.com

Integrator/Dealer Support: 941.404.1072

claresupport@clarecontrols.com

Homeowner Support (ClareCare): 941.315.2273 (CARE)

help@clarecontrols.com