

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.

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evice Templates	
ype filter text	
Access	
CCTV	
76 Climate	
🛛 💼 Entertainment IP Devices	
🕨 🧰 Blu-Ray Player	-
🛛 📺 Cable/Sat TV Tuner	-
🟥 DirecTV - IP Enabled Models	
🏙 Dish Network Hopper	
📺 Dish Network Joey	
🛱 HydraConnect CEC DirecTV control - Global (I	P)
🛱 HydraConnect CEC DirecTV control - Local (IP)
📰 One-Way IP (Custom)	
🛍 Tivo - Network Remote Control (IP)	
🕨 🛅 Media Streamers	
🕨 🔘 Projector	
🕨 🏧 Receiver	
🕨 🏧 Switcher	Ŧ
Communication Method: Other	-

3. Browse to the Dish Network Hopper.

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

4. Click OK.

The **Details** tab displays.

🗄 *Dish Network H	opper (device) 🔀	- E
		🛛 🔛 🤜 👼
Details Configure	Test	
Icon:	ČI.	A
Name:	Dish Network Hopper (device)	
Manufacturer:	Dish Network	
Model Number:	Hopper	
Master Template:	Dish Network Hopper Change Device Template	=
Types:	Cable/Sat TV Tuner	
Notes:	Requires Authorization through the Test tab.	
Version:	1.0.0	
Last Modified	2016/06/29 14:32	

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

Hopper (device) 🔀		
		🗒 🖾 📼 🕯
Test		
Properties		O 🖨
Value	Manda	tory Description
ddres 10.100.20.11	no	This is a device configuration property used by ALL H
ID XXXXXXXXXXXXXXXX	по	
	Image: Apper (device) X Test Properties Value ddres 10.100.20.11 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Image: Appendix of the second state

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.

*Dish Network J	pey (device) 🔀	- [
		🗟 🖾 🤜 🗟
Details Configure	Test	
Icon:	СI.	
Name:	Dish Network Joey (device)	
Manufacturer:	Dish Network	
Model Number:	Јоеу	
Master Template:	Dish Network Joey Change Device Template	E
Types:	Cable/Sat TV Tuner	
Notes:		
Version:	1.0.0	
Last Modified	2016/06/29 13:17	

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

*Dish Network Joey	(device) 🔀			- E
				🗄 🖾 🗟 👼
etails Configure Tes	st			
Configuration Pro	perties			× 🔾 🤤
Name J General	Value	Mandator	Descriptio	n
Network Addre	10.100.20.11	no	This is a c	levice configuration property used by ALI
Set top box ID	XXXXXXXXXXXXXXX	no		

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.

值 *Dish Network Hopper (device) 約	
Details Configure Test	
B Device Data	9
Name: Dish Network Hopper (device)	
Device UID: f62240b2-3299-43ef-80ca-5b0df0c5a5a7	
Online Status: Online	
 Digit Keypad 	A
Function Keys	
Menu Navigation	
▼ Network Device Authorization	Ξ
Start Pairing Send Pairing Code	
> Playback	
 Playlist 	
Baw Command	×

4. Click Start Pairing.

Fusion displays an Operation Arguments dialog.

Diperation Arguments	0 8
Input the required arguments for the operation:	
Invoking operation sendPairingCode for function Network Device	Authorization has finished.
Result:	
SUCCESS	
OK	Cancel

- 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 Op	eration Arguments	0 8
npu	t the required arguments for the	operation:
[N1:	100912	
Desc	ription :	

- 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.

😟 New	Service Instance		\otimes
Service	Devices Scenes		
Name:	Hopper	Area: Family Room Games Area	٣
Notes:			
Service	Definition:	Service RF Code: 4	
type fil	ter text		
	Camera Viewer Service v2.0.0		
	Contact Closure Service (Momentary Open-Close-SI	top Service) v1.0.0	
	Contact Closure Service (Momentary Open-Close-SI	top With Feedback) v1.0.0	
	Contact Closure Service (Momentary with Feedback	<) v1.0.0	
	Contact Closure Service (Momentary) v1.0.0		
	Contact Closure Service (Toggle with Feedback) v1.	0.0	=
	Contact Closure Service (Toggle) v1.0.0		
	Distributed Audio Service v2.0.1		
	Door Entry Service v1.0.0		
	Door Lock Service v1.1.0		
(E) E	Entertainment Service v2.0.0		
A F	ireplace Service v1.0.0		
	Garage Service v1.0.0		
	Sate Service v1.0.0		
	Generic Sensor Service v1.0.5		
88 I	ntrusion Partition Service v1.1.0		
	inhting Dimmer Service v1.0.0		T
App Mo	dule: Entertainment		
			<back next=""> Cancel Finish</back>

- 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.

Compatible Selected (2) All	Req. 🛆	Control Point	Value	Use
	*	Volume Device	Samsung - All Models 2010 & Up (device)	
oe filter text		Audio On/Off	Samsung - All Models 2010 & Up (device)	
🔲 🔲 Family Room Games Area		Display Aspect Control	Samsung - All Models 2010 & Up (device)	
Sony 4K Projector - VPLVW-1000E		Display On/Off	Dish Network Hopper (device)	~
🗹 📺 Samsung - All Models 2010 & Up		Source Aspect Control		
Dish Network Hopper (device)		Source Aux Commands	Samsung - All Models 2010 & Up (device)	
Sony Receiver - STR Series - 2014		Source Channel Buttons	Dish Network Hopper (device)	~
🔲 Display Room		Source Digit Keypad Buttons	Dish Network Hopper (device)	~
🔲 Lanai		Source DVR Commands	Dish Network Hopper (device)	~
🔲 Wine Cellar		Source Function Key Buttons	Dish Network Hopper (device)	~
Unassigned Devices		Source Guide Buttons	Dish Network Hopper (device)	~
		Source Menu Navigation Buttons	Dish Network Hopper (device)	~
		Source On/Off	Dish Network Hopper (device)	~
		Source Playback Buttons		
		Source Playlist Buttons		
III •				

- 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.

New Service Instance			
rvice Devices Scenes			
Start Sequence			
OUses Scene:			
Create new Scene:			
Device	Function	Operation	Delay (sec)
Stop Sequence			
Uses Scene:			
Create new Scene:			
Device	Function	Operation	Delay (sec)
		(-Ra)	4/) [marter] [Cancel] [Einic

To configure the scene:

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



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.

😟 New Service Instance			\otimes
Service Devices Scenes			
▼ Start Sequence			
🔘 Uses Scene:			٣
• Create new Scene:			
Device	Function	Operation	Delay (sec)
Dish Network Hopper (device)	Switch	Turn On ()	0.00

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 ⁽²⁾.



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

lice Devices Scenes			
Start Comunes			
Start Sequence			
Uses Scene:			
Create new Scene:			
Device	Function	Operation	Delay (s
Dish Network Hopper (device)	Switch	Turn On ()	0
Dish Network Hopper (device)	Menu Navigation	Title Menu ()	0
Samsung - All Models 2010 & Up (device)	Switch	Turn On ()	C
then Convence			
Uses Scene:			
) Uses Scene:			
Stop Sequence Uses Scene: Create new Scene: Device	Function	Operation	© () (1000 (100) (100) (1000 (100) (1000 (
Stop Sequence Uses Scene: Create new Scene: Device Dish Network Hopper (device)	Function Switch	Operation Turn Off ()	Delay (s
Stop Sequence Uses Scene: Create new Scene: Device Dish Network Hopper (device) Samsung - All Models 2010 & Up (device)	Function Switch Switch	Operation Turn Off () Turn Off ()	C C C C C C C C C C C C C C C C C C C
Stop Sequence Uses Scene: Create new Scene: Device Dish Network Hopper (device) Samsung - All Models 2010 & Up (device)	Function Switch Switch	Operation Turn Off () Turn Off ()	C C C C C C C C C C C C C C C C C C C
Stop Sequence Uses Scene: Create new Scene: Device Dish Network Hopper (device) Samsung - All Models 2010 & Up (device)	Function Switch Switch	Operation Turn Off () Turn Off ()	C C C C C C C C C C C C C C C C C C C

- 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 $\stackrel{:}{\equiv}$ to view the Device's Menu.
- 2. Tap Entertainment.

My Devices	
Device Area	
Climate	►
Entertainment	►
Fireplace	►
Lighting	►
Music	Þ
Screens	Þ
Security	►
Shades	Þ
Water	Þ

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

<	Entertainment	
	Add New Device Icon	
ă	Living Room	•
á	Apple	0
Add A	П	

The DISH entertainment remote displays.



Contact information

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