

## 1 Introduction

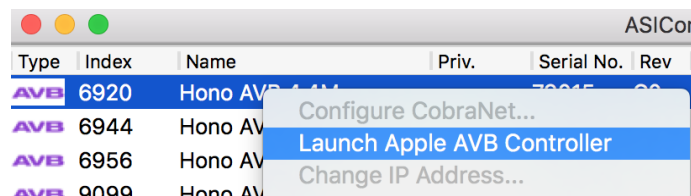
Using Virtual Entity Mode, an Apple Mac can operate as an AVB Device compatible with any AudioScience Hono AVB Device.

## 2 Requirements

- Recent Mac (any Mac that has a Thunderbolt port on it) with macOS Sierra installed
- Apple Thunderbolt 2 to Gigabit Ethernet Adapter.
- The latest MacBook Pro model (2016) features only Thunderbolt 3 (USB-C) ports. An Apple Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter is required if the Mac does not have a Thunderbolt 2 port.
- Standard, high-grade (CAT-5e or CAT-6) network cable
- AudioScience Hono AVB device
- Network switch with AVnu certified AVB support. Compatible switches include:
  - Extreme X430, X440, X460 with AVB license installed, v15.5.3.4 or later

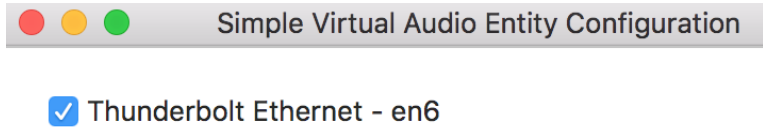
## 3 Setup

1. If your Mac has a Thunderbolt 2 port, connect an Apple Thunderbolt 2 to Gigabit Ethernet adapter to an open port. If your Mac has only Thunderbolt 3 (USB-C) ports, connect an Apple Thunderbolt 3 to Thunderbolt 2 Adapter to an open port and connect your Thunderbolt 2 to Ethernet Adapter to the Thunderbolt 2 end. Connect the Hono AVB device and the Thunderbolt 2 adapter to an AVB Switch via Cat 5-e/6. (Do not plug in the Hono's power yet)
2. Power your Mac on and log in.
3. Connect the power cable to your AudioScience Hono AVB device. Let the device boot (may take up to 90 seconds).
4. Open [ASiControl](#). Right click on the Hono AVB adapter in the ASiControl adapter list and select "Launch Apple AVB Controller"



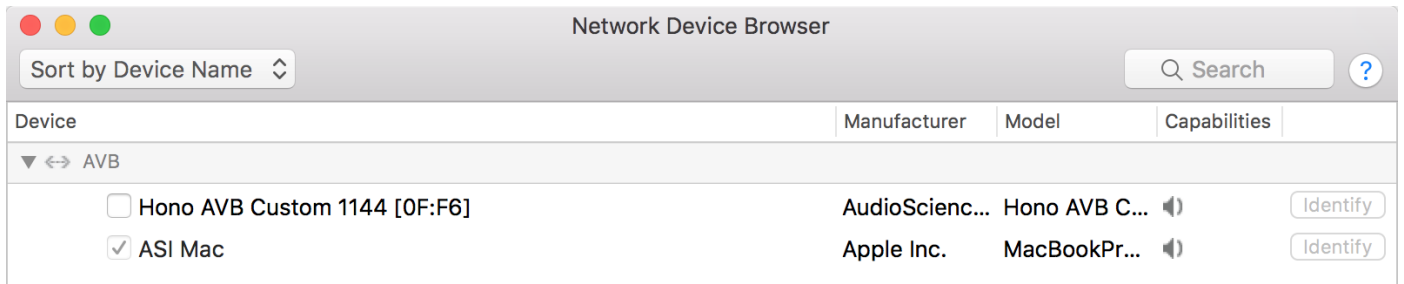
**Figure 1: Launch Apple AVB Controller from ASiControl**

- From the Apple AVB Controller, click on **Window > Simple Virtual Audio Configuration**. Check the box next the network interface connected to your AVB Network.



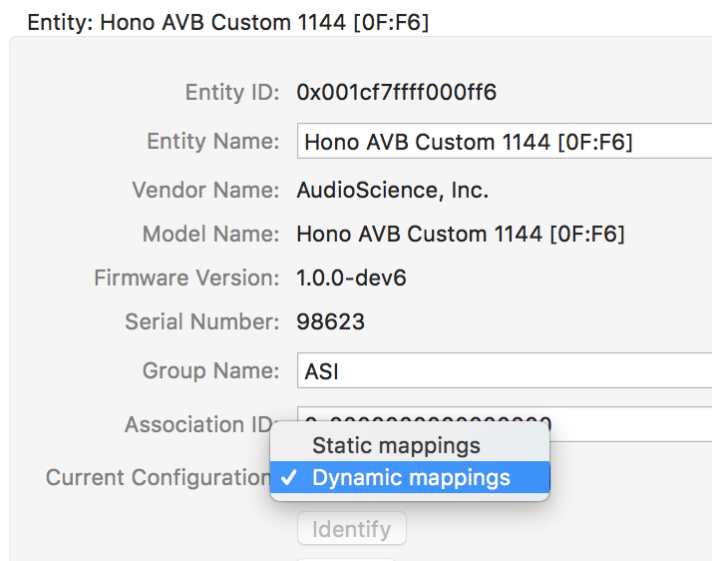
**Figure 2: Virtual Audio Interface Selection**

- Open the Apple Audio MIDI application and navigate to the Network Device Browser (**Window > Show Network Device Browser**). Your Apple Mac should appear checked and disabled. Make sure the AudioScience Hono AVB device(s) you are routing to/from is **not** checked.



**Figure 3: Apple Mac Audio Midi Network Device Browser**

- Use the Apple AVB Controller to change the configuration settings of the AudioScience Hono AVB Device and the Mac Virtual AVB Device.



**Figure 4: Apple AVB Controller Configuration Change**

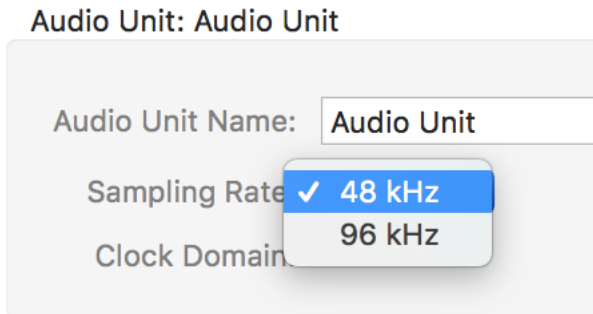


Figure 5: Apple AVB Controller Sampling Rate Change

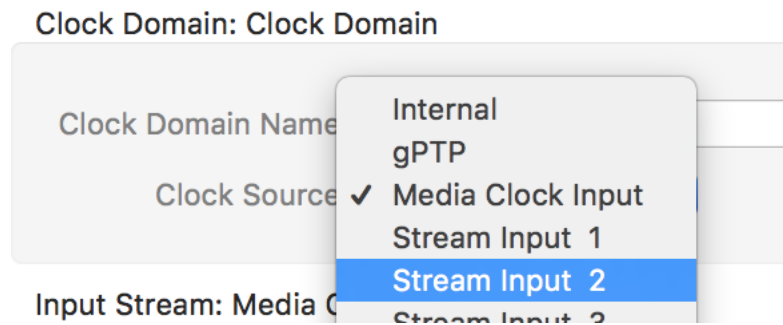


Figure 6: Apple AVB Controller Clock Source Change

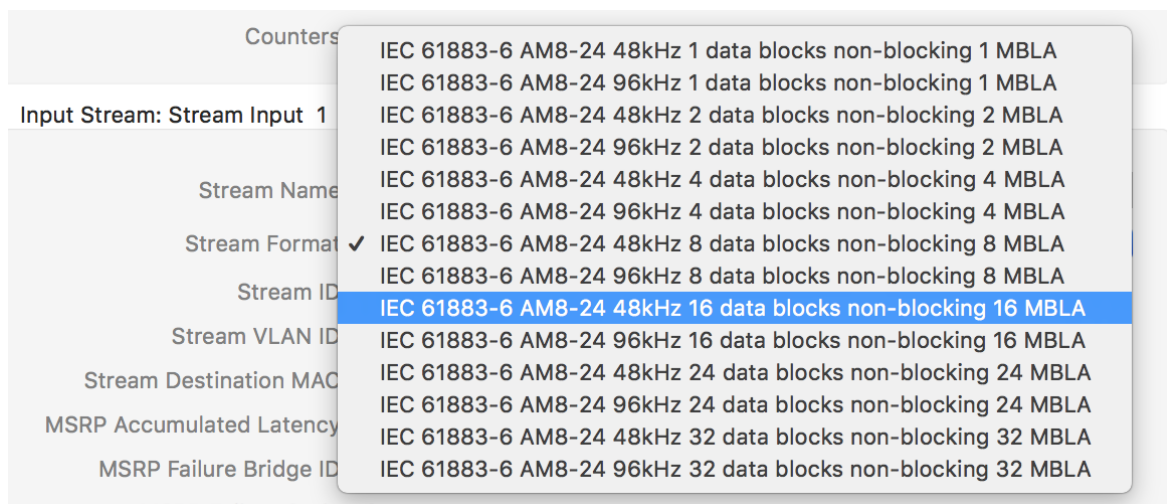


Figure 7: Apple AVB Controller Stream Format Change

- In the Apple AVB Controller, navigate to the Connection Matrix (**Window > AVDECC Connection Matrix**). You should see your AudioScience AVB Device and your Apple Mac under the corresponding Network Interface Tab. Click on a valid crosspoint to connect a Mac stream to/from a Hono stream.

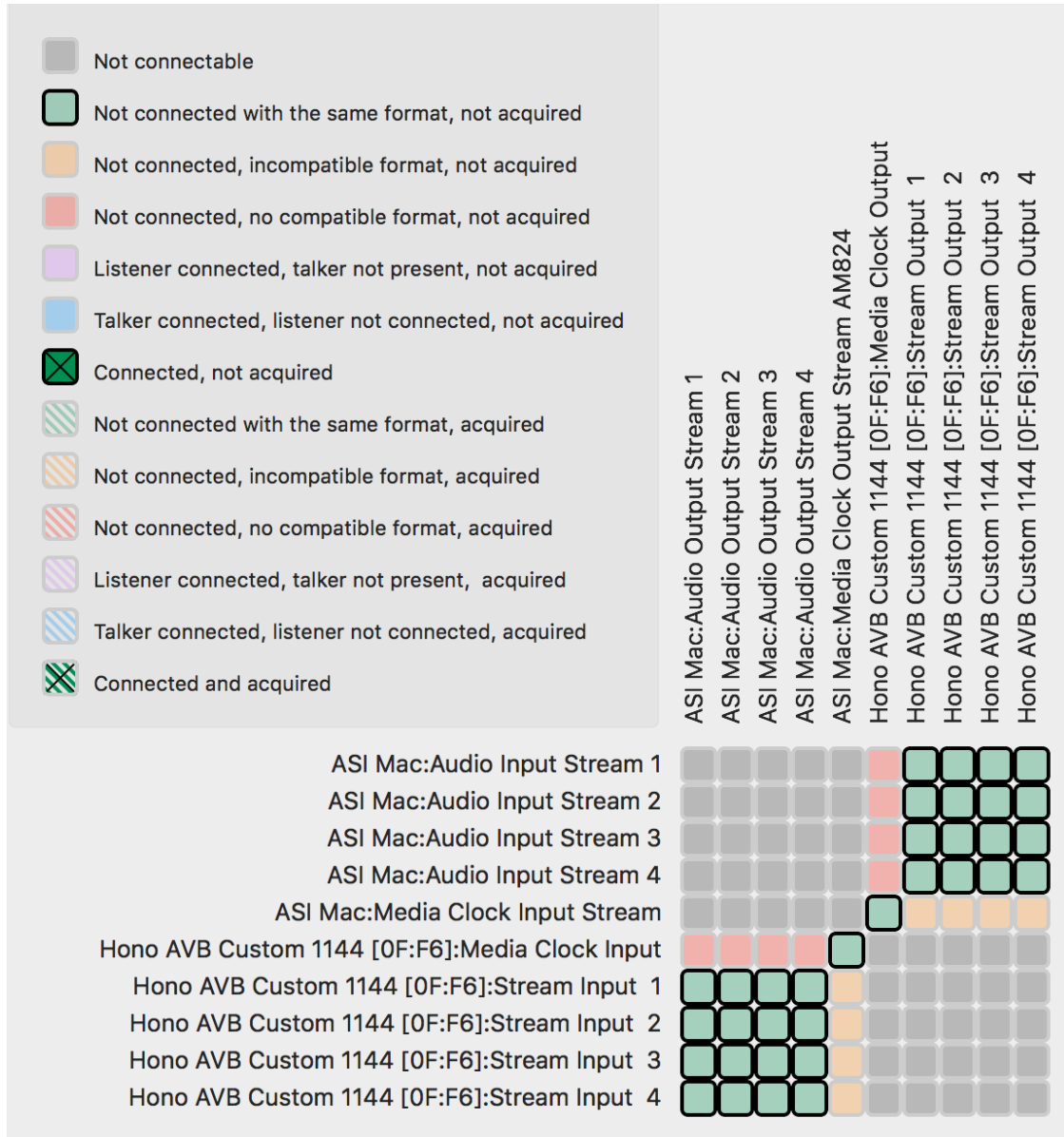


Figure 8: Apple AVB Controller Connection Matrix

#### 4 Supporting Documentation

- [Hono AVB Mini](#)
- [Hono AVB Custom](#)
- [ASISControl](#) – Control the internal features of your Hono Device