

USER MANUAL



KelseyVerse & Milan Manger User Guide

1. Overview

This manual covers the KelseyVerse Milan units (Milan-AVB audio endpoints) and focuses on day-to-day setup, routing, clocking, and maintenance. It includes a practical walkthrough for using the units with Milan Manager.

1.1 What Milan Manager is

- Milan Manager is a free desktop application (Windows/macOS) used to configure, manage, and monitor Milan-AVB networks. It discovers connected devices, shows network status, allows naming and configuration (including sample rate where supported), and provides stream and channel routing via a grid interface.
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2. Safety and handling

- • Use only approved power supplies/cables for the specific KelseyVerse Milan model.
 - • Provide adequate ventilation and avoid moisture, condensation, and vibration.
 - • Do not hot-plug power connectors unless the unit and connector type explicitly support it.
 - • If the unit is touring-racked, strain-relief and dress network cables to prevent connector damage.
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3. Network requirements and quick checklist

- Before you start, confirm:
 - • All Milan devices and the control computer are on the same Layer-2 network.
 - • Your Ethernet switch is suitable for AVB/TSN/Milan use (or a known-good, Milan-capable switch).
 - • Any redundant network ports are wired consistently (Primary-to-Primary, Secondary-to-Secondary).
 - • Your control computer uses a compatible network adapter and OS settings (driver support varies by platform).
 - • You have the correct firmware file(s) from the device manufacturer for any planned updates



4. Using KelseyVerse Milan units with Milan Manager

- This section explains what you see when you connect, how to make stream and channel connections, how to change sample rate, and how firmware updates are performed.

4.1 Install Milan Manager and connect to the network

- 1) Install Milan Manager from the official Milan Manager website.
- 2) Connect your computer's Ethernet port to the Milan network (same switch/VLAN as the endpoints).
- 3) Power on the KelseyVerse Milan units and any other Milan devices.
- 4) Launch Milan Manager. Within a few seconds, devices should populate automatically.

Eçy and status

- Allows a 12-channel output over three shielded Cat cables.
- Ideal for distributed line systems and stage audio distribution.

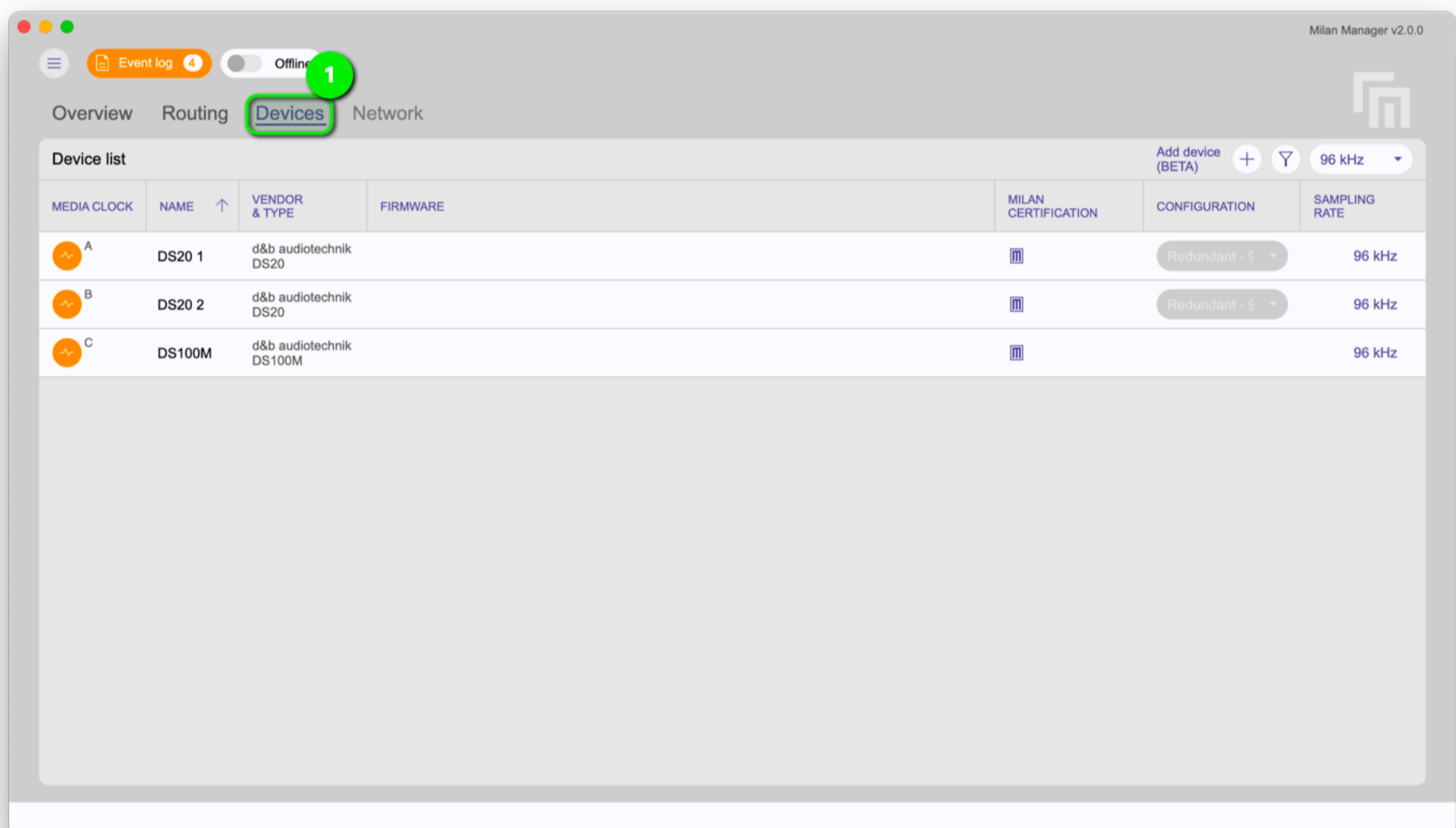


Figure 1 — Milan Manager Devices tab example (device discovery and status)

4.2 What you see when you connect

Common indicators in Milan Manager include:

- Device list populated with names, vendor/type, and firmware versions.
- Media Clock Domain status (which device is master, which are followers).
- Sampling rate per device and (in some versions) a global sampling rate selector.
- Routing grids for stream subscriptions (Overview) and per-channel mapping (Routing).
- An event log showing warnings (e.g., sample-rate mismatch, stream errors, clock issues).

4.3 Configure media clock (new/unconfigured networks)

On a fresh network, you typically need to select a Media Clock Master for the Media Clock Domain. In Milan Manager, this is usually done from the Devices tab or a clock configuration dialog. Best practice: choose a stable clock master (often the console, main interface, or a dedicated clock source) and keep the entire Milan network on one sample rate and one media clock domain.

4.4 Connect streams (Overview tab)

Use the Overview tab to subscribe Listener streams to Talker streams. The grid shows Talkers on one axis and Listeners on the other. Click a square to make (or break) a stream subscription. Tip: For speed and robustness, patch at the stream level first, then refine channel mapping in the Routing tab if needed.

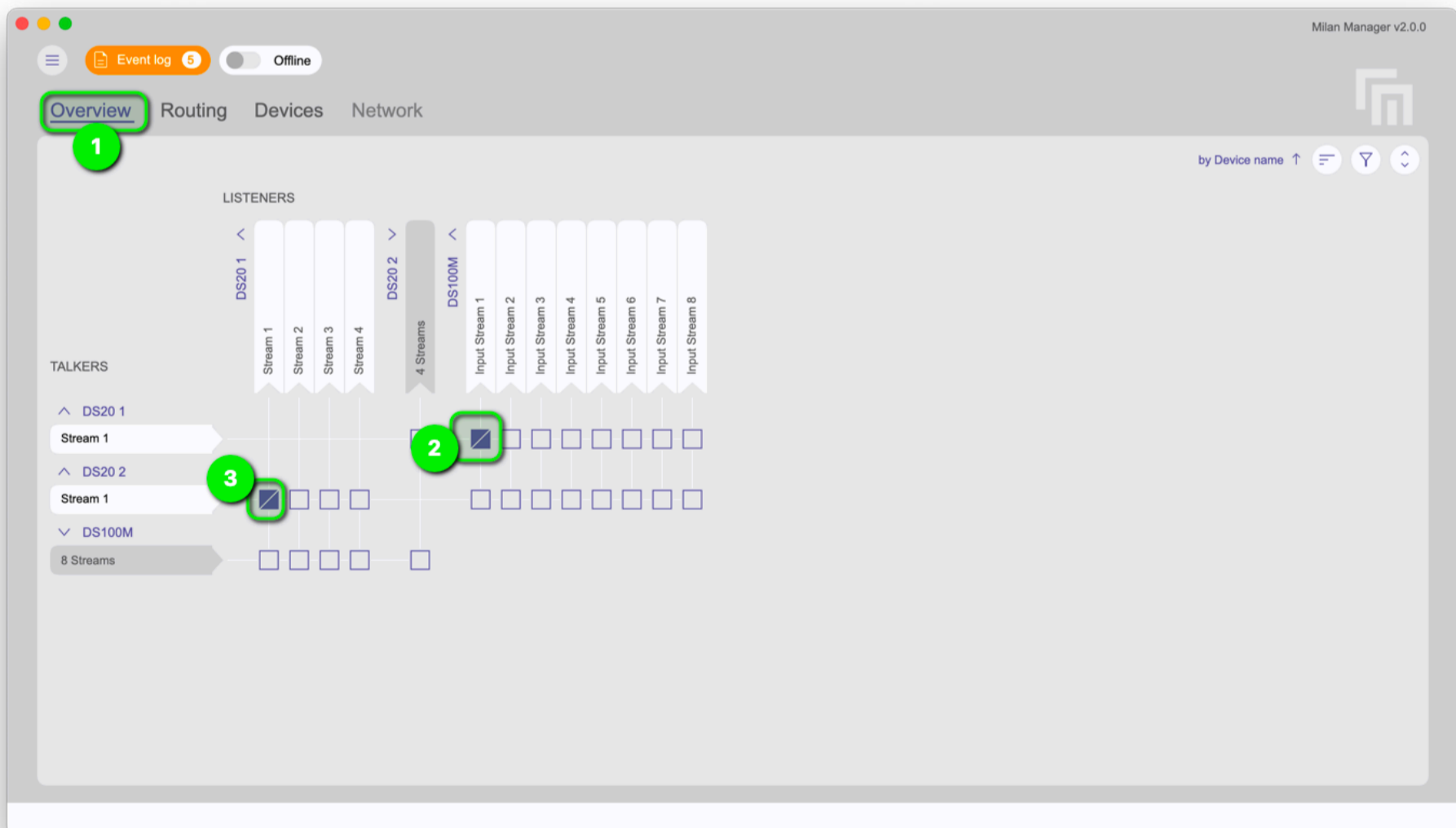


Figure 2 — Overview tab example: making stream connections (Talker to Listener).

4.5 Connect channels (Routing tab)

After subscribing a stream, go to the Routing tab to map individual channels. Typically:

- 1) Select the Listener device.
- 2) Choose the relevant input stream/channel block.
- 3) Click in the routing grid to map network channels to local inputs/outputs.

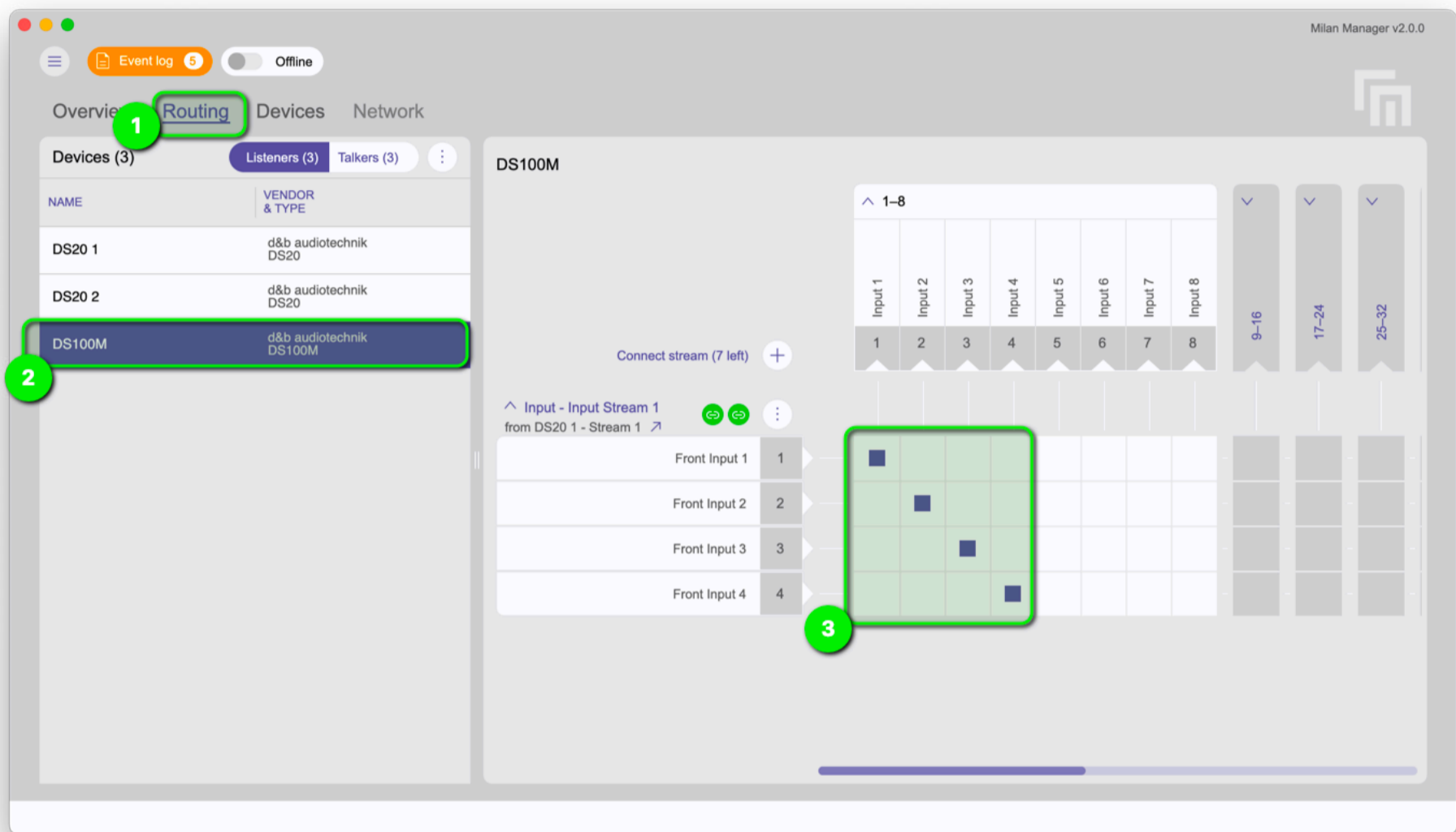


Figure 3 — Routing tab example: per-channel patching after a stream is connected.

4.6 Changing sample rate

Set the sample rate before patching channels/streams where possible. Changing sample rate later typically interrupts audio and may require streams to be re-established. In Milan Manager, sampling rate can be adjusted per device (where supported) and, in newer versions, via a Global Sampling Rate selector in the upper-right of the Devices tab. If a device does not support direct sample-rate changes, Milan Manager may warn you and you may need to change the device's sample rate via its own control interface, then reconnect streams.

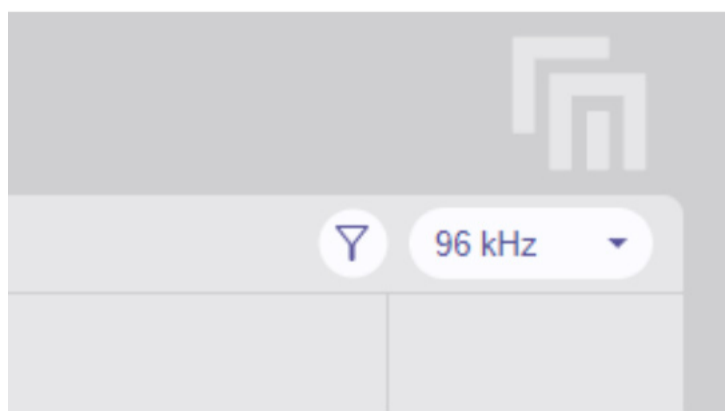


Figure 4 — Global sampling rate selector (Devices tab).

4.7 Firmware updates

Milan Manager provides a generic firmware update workflow for devices that support it. You will still need the correct firmware update file from the manufacturer. Typical process:

- 1) In the Devices tab, right-click the device (or multi-select compatible devices).
- 2) Choose Update firmware.
- 3) Select the manufacturer's firmware file.
- 4) Start the update and wait for each device to complete and reboot. Important: **Do not power down devices during an update. If you are on a live system, schedule updates in a maintenance window.**

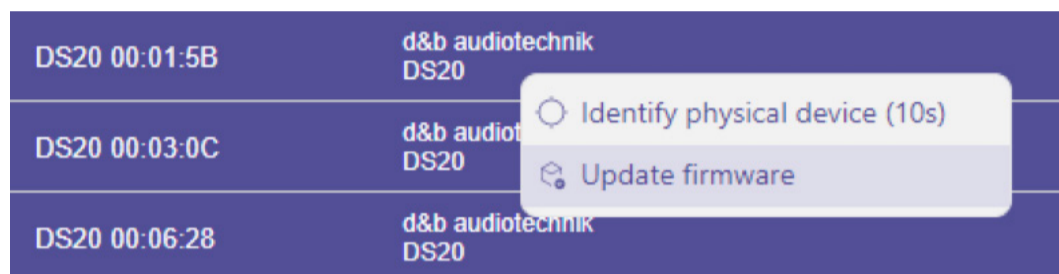


Figure 5 — Firmware update context menu (Devices tab).

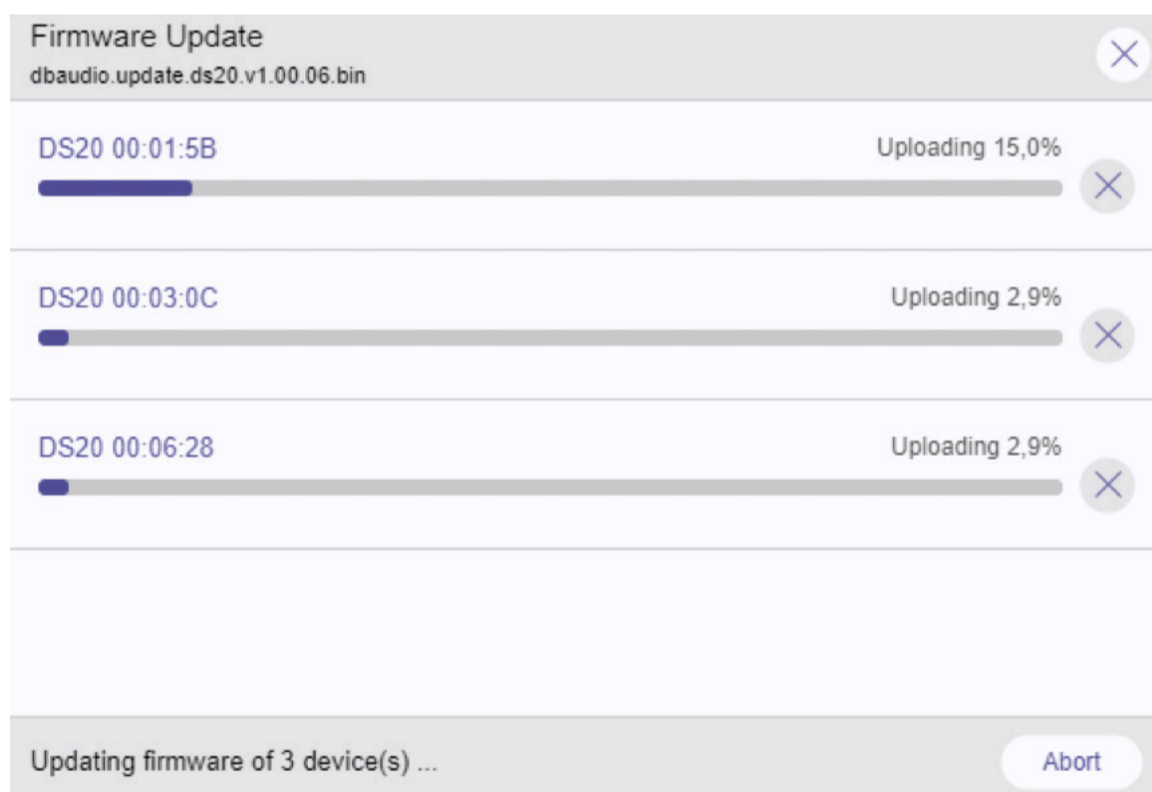


Figure 6 — Firmware update progress dialog example.

4.8 Troubleshooting quick notes

Milan Manager provides a generic firmware update workflow for devices that support it. If devices do not appear in Milan Manager:

- Confirm your computer is connected to the same physical network/VLAN as the Milan devices.
- Try a direct connection (computer -> switch -> device) with a known-good cable.
- Disable or adjust host firewall settings that may block discovery traffic.
- Verify the network adapter/driver is compatible with AVB/TSN workflows on your OS.
- Confirm the unit is powered and link LEDs indicate an active connection.

If audio drops after changing sample rate:

- Expect streams to stop/restart; re-check stream subscriptions in the Overview tab.
- Verify all devices are on the same media clock domain and sample rate.
- Re-open the Routing tab and confirm channel mappings are still valid.