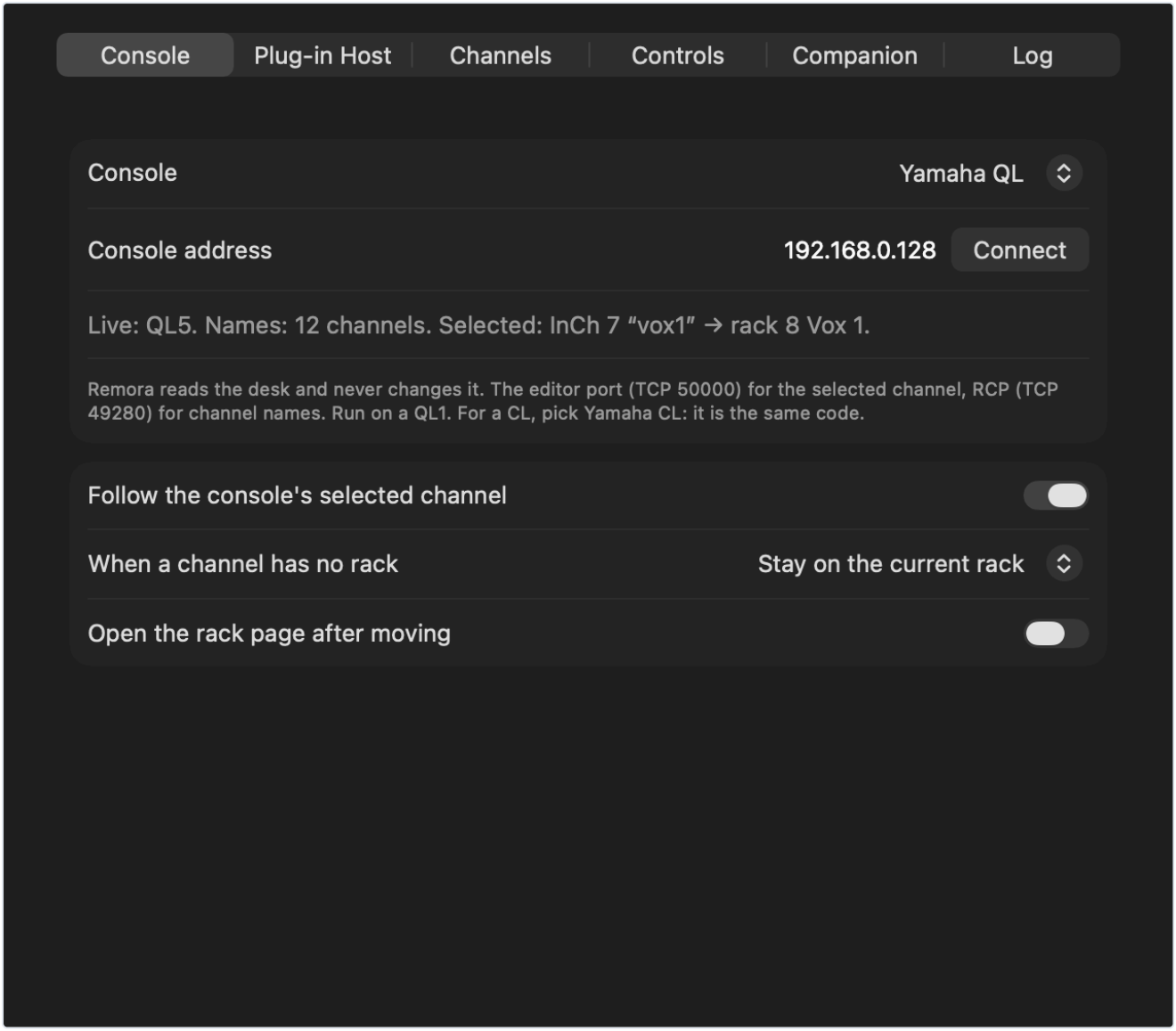
Remora user guide

Remora is a menu-bar app for the Mac running Waves SuperRack Performer. It watches the mixing desk, and when you select a channel it puts SuperRack on that channel's rack, so the plug-ins on screen are the ones on the channel you're working on. It can also turn desk keys, MIDI controllers and Companion buttons into SuperRack controls, and tidy up the floating windows SuperRack leaves lying about for non-Waves plug-ins.

It only ever reads the desk. Nothing Remora sends a console can change a parameter, recall a scene or press a key; there's a check in the code that refuses to send anything but a read request.

> **Where it's got to (0.6.0, 2026-11-21):** used on live shows with a Yamaha QL1 and with an Allen & Heath SQ-5, both driving SuperRack Performer 15.15, and run end to end against the same QL1 after a show. The 2 ms step spacing has been used on a live show and, since, traced step by step against SuperRack. SuperRack over ProLink, new in 0.4.0, drove the SQ-5's show. People using the Behringer X32 / Midas M32 have reported it working, so it's supported too. New in 0.6.0: Auto build (experimental) and Remora's state for Companion buttons. Every other desk and plug-in host is experimental: built from the makers' documents and not yet tried on the real thing. That's the Yamaha CL, DM7, DM3 and RIVAGE PM, the Allen & Heath Qu, dLive and Avantis, the Behringer Wing, and nine plug-in hosts besides SuperRack. If you try one, I'd like to hear how it went: https://stoatworks-labs.com/feedback/.



Install

Download the DMG from the releases page and drag Remora to Applications. It's signed and notarised, so it opens without a Gatekeeper warning. It needs macOS 13 or later.

Open it and a fish appears in the menu bar. macOS asks for **Local Network** access the first time Remora talks to the desk: allow it, or the link fails with "Network is down".

To build it yourself: `scripts/build-app.sh` makes `dist/Remora.app`.

Connecting the desk

Settings › Console: pick the desk, type its IP address and press **Connect**. The status line says what Remora can see: the model, how many channel names it has, and the selected channel and the rack it found. The fish in the menu bar fills in when the desk is live.

Yamaha CL and QL

Nothing to set on the desk. Remora connects to two ports: the editor port (TCP 50000, the same link CL/QL Editor uses) for the selected channel, and RCP (TCP 49280) for channel names. Press SEL and Remora follows. It's been run on a QL1 on firmware V5.70a. Yamaha publishes one MIDI specification for the CL and QL, so a CL should behave the same, but I haven't had one to try.

Pick **Yamaha QL** for a QL and **Yamaha CL** for a CL. They're the same code; the CL's entry is marked experimental because it hasn't met a CL. If the desk turns out to be the other kind, the status line says so.

Yamaha DM7 and DM3 (experimental)

Yamaha doesn't document any way to read the selected channel on a DM, so Remora follows cue instead. On the desk, turn on **[CUE] > [SEL] Link** in Setup › Preferences, so that cueing a channel selects it too. Then the channel you cue is the rack you get. Names come from the desk over RCP (TCP 49280). Remora asks the desk which model it is and reads that model's channels. There are no learned controls from a DM yet.

Yamaha RIVAGE PM (experimental)

A PM has no one selected channel for Remora to read: its screens can show up to three. So Remora follows cue, A or B: the channel you last put on cue is the rack you get. Names come over RCP (TCP 49280), for 288 inputs, 72 mixes and 36 matrices. Yamaha documents OSC for the PM rather than RCP; Remora's use of RCP comes from Companion's Yamaha module, which drives PMs that way, and hasn't met a PM yet. There are no learned controls from a PM.

Allen & Heath Qu (experimental)

The Qu doesn't say which channel is selected, but it does say which one is on PAFL. On the desk, turn on **Sel follows PAFL** (Setup › Audio › PAFL), then PAFL a channel to follow it. Remora talks to the Qu's MIDI over TCP (port 51325), reads the channel names and works out the model and the desk's MIDI channel itself. The Qu only takes one TCP MIDI connection at a time, so while Remora is connected nothing else can use it.

Allen & Heath dLive and Avantis (experimental)

These don't send a selected channel or PAFL over MIDI, so Remora can't follow them. It reads their channel names, and their soft keys and MIDI Strips, set to send MIDI, come in as controls you can learn (see Controls, below), so a soft key per rack with **Go to rack** is the next best thing. Set the desk's MIDI channel in Remora to match Utility › Control › MIDI. Remora uses port 51325 without TLS, so set TCP MIDI to No Security.

Pick **Allen & Heath Avantis** for an Avantis. It's the dLive's code with Avantis's channels: Remora reads the names of inputs 1–64 (version 2.0's inputs 65–96 aren't read yet). Avantis's MIDI channel is 12 unless it's been changed. Controls learned under either entry work under the other.

Allen & Heath SQ

Remora follows the SQ's selected channel and reads its channel names over the network port SQ MixPad uses (TCP 51326), so there's nothing to set up on the desk: type its address, and the fish fills in. It only reads. A&H doesn't document that port, so Remora's use of it comes from watching SQ MixPad talk to an SQ-5, and a firmware update could change it. It has been used on a show with an SQ-5, driving SuperRack over ProLink.

Inputs, FX returns, groups, auxes and LR are followed by number. Matrices and anything past LR are followed as raw channels ("channel 0x77") with their names, until a desk shows how they're numbered.

Soft keys set to send a MIDI note, and MIDI strips, come in over the SQ's MIDI (TCP 51325) as learnable controls. Set the desk's MIDI channel in Remora to match the SQ's; the MIDI strips use the channel one above it, as the SQ does. If the remote port doesn't answer, Remora stays on MIDI alone, for those controls. These MIDI controls haven't been tried on a desk yet.

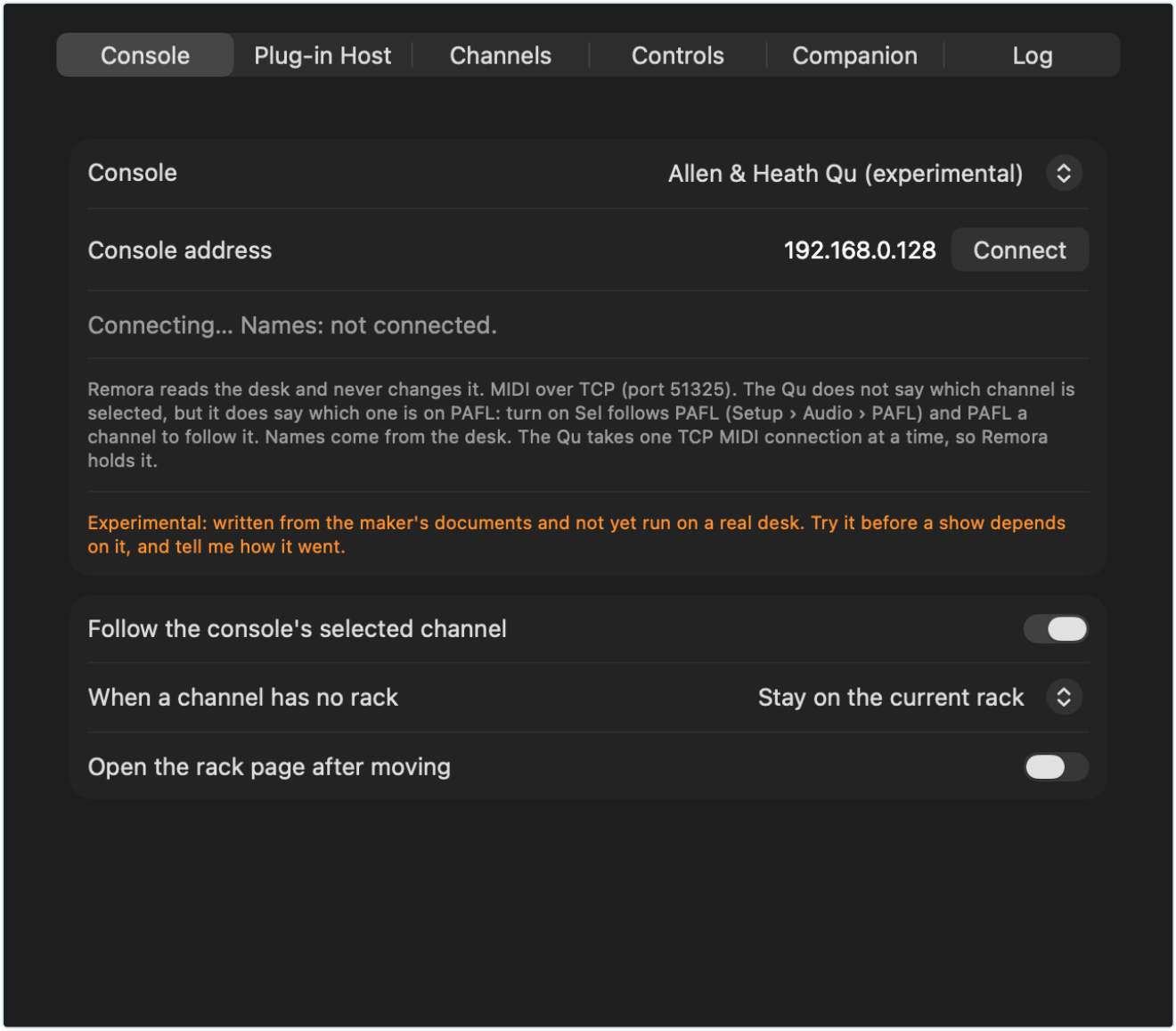
Behringer X32 and Midas M32

People using Remora with their desks have reported it working. Nothing to set on the desk. Remora asks it over OSC (UDP 10023) which channel is selected, five times a second, and reads the names of the channels, aux ins, FX returns, buses, matrices and mains. It never sends a value. It doesn't subscribe to the desk's updates either: the desk keeps only four places for that, and X32-Edit, Companion and the like need them. If the desk stops answering for five seconds, the status line says so and Remora keeps asking. There are no learned controls from an X32.

Behringer Wing (experimental)

As the X32, on UDP 2223. A Wing keeps a single OSC subscription, which Remora leaves to whatever has it. The Wing's documents don't say how it numbers the selected channel, so Remora's numbering is worked out from the channel counts. If selecting a bus or a main lands on the wrong kind of channel, please tell me.

A channel with **Link Customization to Source** on shows its input source's name, and since 0.4.1 Remora reads that name too, so linked channels come up named rather than as InCh 1, InCh 2 and so on. If a linked channel is switched to its Alt input, Remora still shows the main input's name.



Setting up SuperRack

Settings › Plug-in Host picks how Remora drives SuperRack: **SuperRack (MIDI)**, the one that's been used on a show with a QL1, or **SuperRack (ProLink)**, used on a show with an SQ-5 (below). Pick the **Edition** too: Performer, or SoundGrid. SoundGrid keeps its app, session file and log in its own places; Remora takes those from Waves' guide and the installed app, but it hasn't been tried with SoundGrid yet.

For SuperRack (MIDI):

1. **Start Remora before SuperRack.** SuperRack only looks for MIDI ports when it starts and when a MIDI Controller is added.
2. In SuperRack, open Setup › MIDI Controller (the gear) and tick **Remora** under MIDI In.
3. Load the mapping: Remora's menu › **Save SuperRack Mapping…**, then **Import** it in SuperRack's MIDI Controller. It's channel 16, CC 20–25 by default; change them on Remora's Plug-in Host tab if they clash with something. Or MIDI Learn the six navigation commands in SuperRack with the buttons on that tab.

4. Give Remora **Accessibility** (System Settings › Privacy & Security › Accessibility). It works without it, but it then has to count racks instead of reading them, which is slower and goes wrong if somebody clicks a rack in SuperRack. Settings › Plug-in Host says whether it's reading.

If Remora was started after SuperRack, or restarted, or updated: in SuperRack, Setup › Controllers › the MIDI Controller's menu › **Remove**, then + › MIDI Controller, and tick Remora again. The mappings survive. Follow Prg. Changes goes back to channel 1, so set it back to None. Unticking and ticking Remora isn't enough. A new copy of Remora may also need its Accessibility switch turned off and on.

SuperRack over ProLink

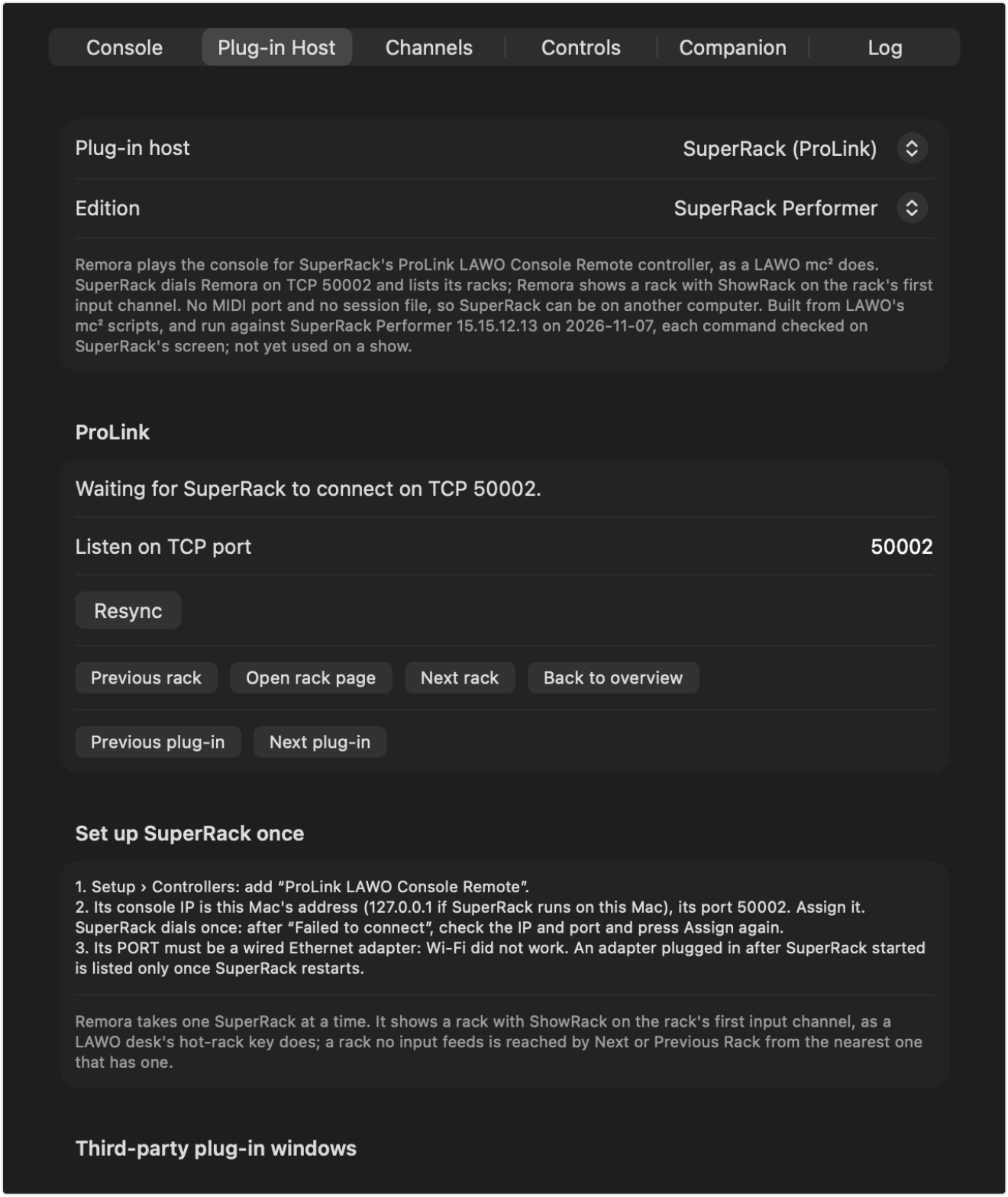
ProLink is the link a LAWO mc² desk uses to drive SuperRack. With **SuperRack (ProLink)** picked, Remora plays the desk: SuperRack connects to Remora and lists its racks, and Remora shows a rack in one command, on the rack's first input channel, as the mc²'s hot-rack key does. Nothing is counted and there's no MIDI port to set up. A rack that no input feeds is reached by Next or Previous Rack from the nearest rack that has one.

1. Settings › Plug-in Host: pick **SuperRack (ProLink)**. Remora listens on TCP 50002; change it on the same tab if something else has that port.
2. In SuperRack, Setup › Controllers › + › **ProLink LAWO Console Remote**. The console IP is the Mac running Remora (127.0.0.1 if it's the same Mac), the port Remora's. Press Assign. SuperRack dials once: if it says "Failed to connect", check that Remora is running with SuperRack (ProLink) picked, and press Assign again.
3. Its **PORT** must be a wired Ethernet adapter: on Wi-Fi SuperRack didn't connect at all. An adapter plugged in after SuperRack started only shows up in that list once SuperRack restarts.

The Plug-in Host tab says when SuperRack has connected, and lists its racks. Remora takes one SuperRack at a time. The plug-in window options work as they do over MIDI, except showing the new rack's plug-in, which needs the MIDI port. A **Send CC to SuperRack** control needs SuperRack (MIDI) too: ProLink carries no MIDI.

When you stop using ProLink, clear the controller's assignment in SuperRack (Clear Assignments, then APPLY; it disconnects every console). While it's assigned and Remora is away, SuperRack dials again about every 750 ms, and logs each try.

The protocol comes from the scripts in LAWO's mc² firmware, and a test link was run against SuperRack Performer 15.15 before the module was built. The module has since run against the same SuperRack: it connected and listed the racks, and every command Remora sent did what it should on SuperRack's screen. On 2026-11-21 it drove SuperRack through a show, following an SQ-5.



Other plug-in hosts (experimental)

Remora can drive nine other plug-in hosts. Each is built from its maker's documents, and none has been tried against the host yet.

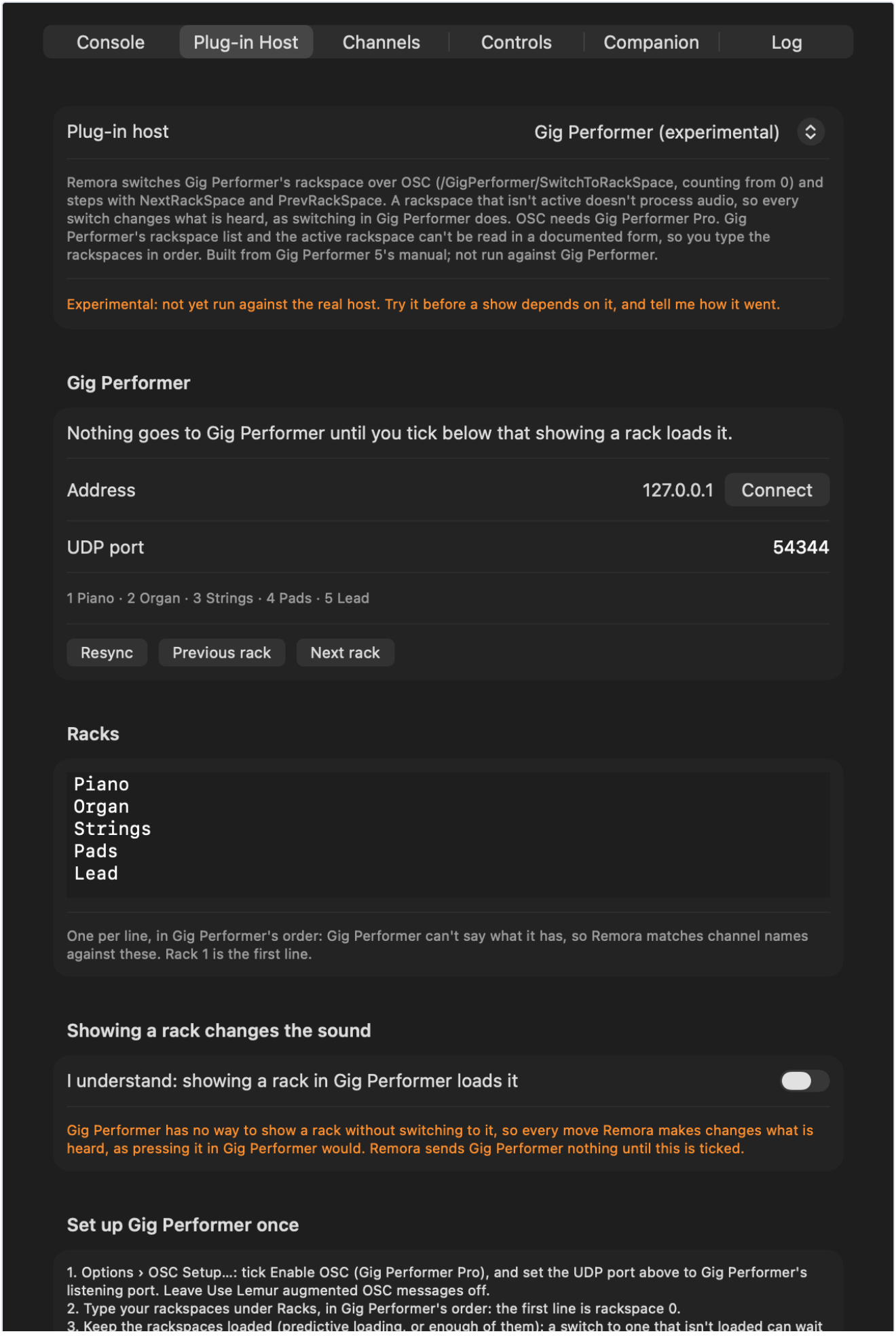
Host	How Remora shows a rack	Racks	Changes the sound
REAPER	selects the track, alone, through REAPER's web interface	read from REAPER	no, unless a track is set to arm when selected
Ableton Live	selects the track over OSC, through the free AbletonOSC script	read from Live	no
Logic Pro	steps with the Select Next and Previous Track key commands, learned on Remora's MIDI port	typed	can: a selected track may be ready to record
MainStage	a Program Change for the patch	typed	yes
LiveProfessor	selects the chain, over OSC	typed	no
Gig Performer	switches the rackspace, over OSC (Pro)	typed	yes
VSTHost (Windows)	loads the performance, over OSC	typed	yes
Cantabile (Windows)	loads the song from the set list, through Cantabile's network server	read from the set list	yes
Steinberg VST Live	Select Song, a MIDI action	typed	yes

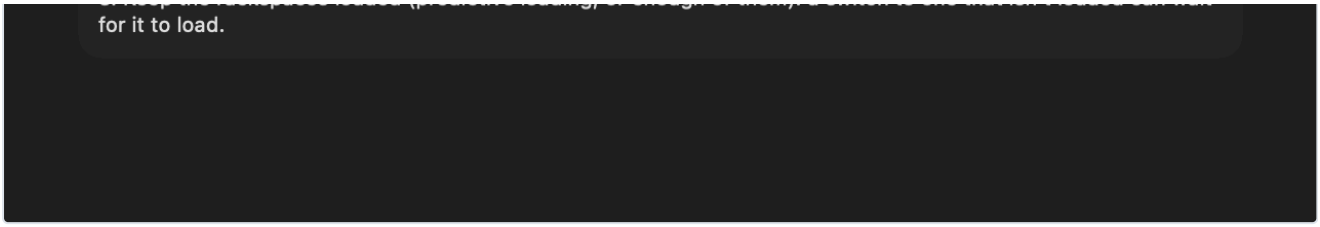
Pick one in Settings › Plug-in Host. Its settings appear below, with a **Set up … once** list at the bottom that says what to switch on in the host.

- **Address and port:** a host Remora reaches over the network can be on another computer: the OSC hosts, REAPER and Cantabile. Type its address, or 127.0.0.1 for this Mac, and press Connect. REAPER's port is its web interface's (8080 in REAPER's guide), Cantabile's its network server's (35007). Ableton Live answers on a second port, 11001 unless you change it, which nothing else on this Mac may be using.
- **Racks:** Ableton Live, REAPER and Cantabile say what they have: Live's and REAPER's tracks, and the songs in Cantabile's set list, without its breaks. For the rest, type the racks under Racks, one per line, in the host's order: the first line is the host's first patch, chain, rackspace, performance or song. Channel names are matched against these as they are against SuperRack's racks.
- **Where the host is:** Ableton Live, REAPER, Cantabile and VSTHost say which track, song or performance is current; REAPER is asked every second, and with several tracks selected the first counts. The others don't, so Remora goes by what it last sent: pick something in the host itself and Remora doesn't know. Logic is counted: Remora first steps back once for every typed track, which reaches the first track from anywhere, and counts from there. Resync does that again.
- **Showing a rack changes the sound:** MainStage, Gig Performer, VSTHost, Cantabile and VST Live can only show a rack by loading it, so every move changes what's heard, as switching in

the host would. Logic's selected track may be ready to record, and takes live MIDI. For these, Remora sends nothing until you tick **I understand** on the tab (it doesn't even connect to Cantabile), and picking one turns Follow off; turn it back on in the menu when you're ready. Remora never sends one the rack it knows the host is on, which could load it again.

- **REAPER:** Remora shows a track by selecting it alone, as clicking it does. With REAPER set to open a track's FX when the selection changes (the set-up list says where), that shows its plug-ins. Selecting doesn't change the sound unless the track arms for recording when selected: leave that off. Leave the web interface's username and password empty: Remora sends none, and the tab says so if REAPER asks for them.
- **What's never sent:** each host has a list of the messages Remora may send it, checked before every send. Nothing on any list changes a fader, a mute, a plug-in, a parameter or the transport, or saves anything.
- **SuperRack only:** tidying plug-in windows, the plug-in steps, Overview and a learned control's CC. With another host they're logged once and dropped.

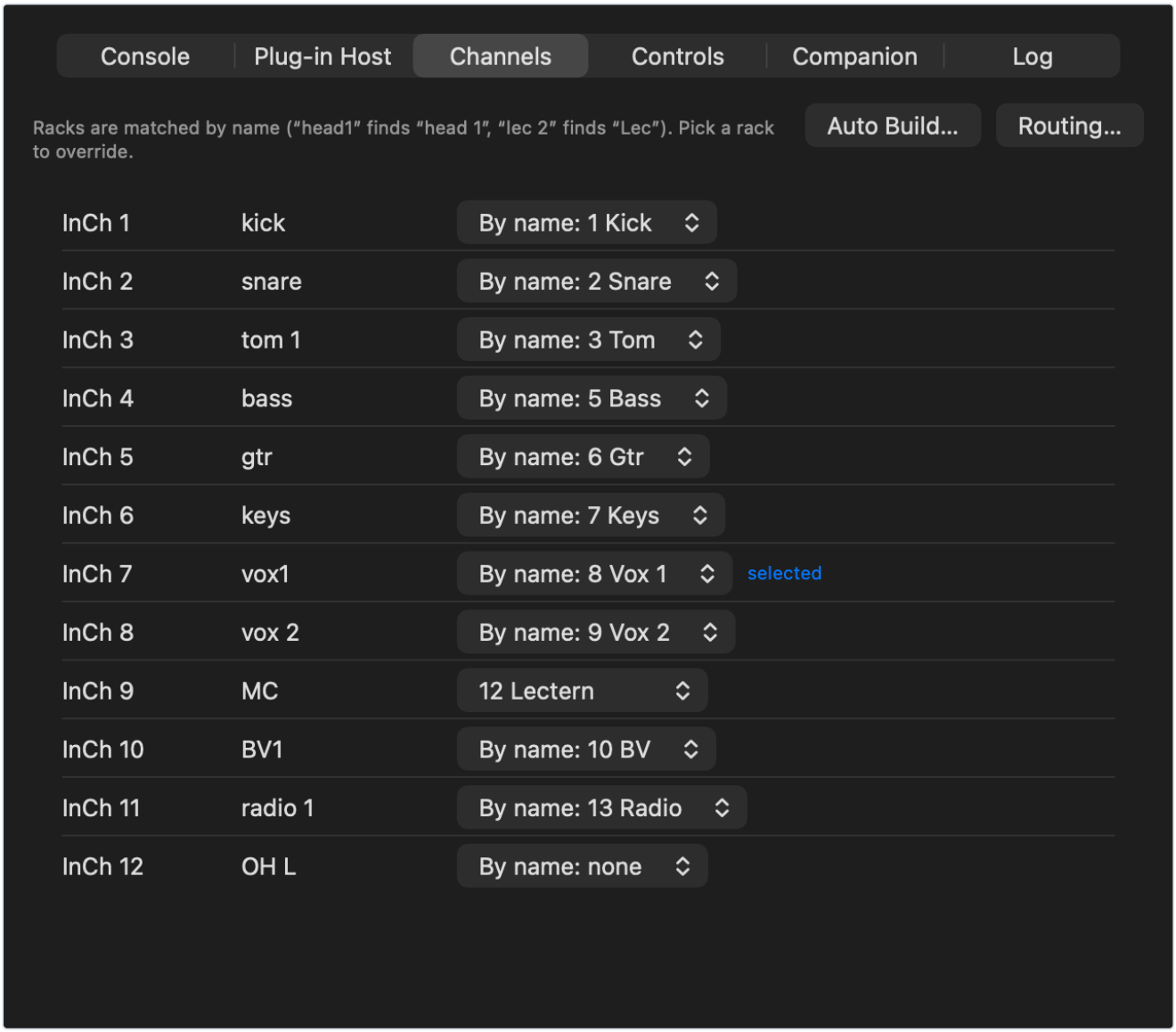

Console
Plug-in Host
Channels
Controls
Companion
Log
Plug-in host
Gig Performer (experimental)
Remora switches Gig Performer's rackspace over OSC (/GigPerformer/SwitchToRackSpace, counting from 0) and steps with NextRackSpace and PrevRackSpace. A rackspace that isn't active doesn't process audio, so every switch changes what is heard, as switching in Gig Performer does. OSC needs Gig Performer Pro. Gig Performer's rackspace list and the active rackspace can't be read in a documented form, so you type the rackspaces in order. Built from Gig Performer 5's manual; not run against Gig Performer.
Experimental: not yet run against the real host. Try it before a show depends on it, and tell me how it went.
Gig Performer
Nothing goes to Gig Performer until you tick below that showing a rack loads it.
Address
127.0.0.1
Connect
UDP port
54344
1 Piano · 2 Organ · 3 Strings · 4 Pads · 5 Lead
Resync
Previous rack
Next rack
Racks
Piano
Organ
Strings
Pads
Lead
One per line, in Gig Performer's order: Gig Performer can't say what it has, so Remora matches channel names against these. Rack 1 is the first line.
Showing a rack changes the sound
I understand: showing a rack in Gig Performer loads it
Gig Performer has no way to show a rack without switching to it, so every move Remora makes changes what is heard, as pressing it in Gig Performer would. Remora sends Gig Performer nothing until this is ticked.
Set up Gig Performer once
1. Options › OSC Setup...: tick Enable OSC (Gig Performer Pro), and set the UDP port above to Gig Performer's listening port. Leave Use Lemur augmented OSC messages off.
2. Type your rackspaces under Racks, in Gig Performer's order: the first line is rackspace 0.
3. Keep the rackspaces loaded (predictive loading, or enough of them): a switch to one that isn't loaded can wait



How a channel finds its rack

Remora matches the channel's name on the desk to a rack's name in SuperRack, ignoring case, spaces and punctuation: "head1" finds "head 1" and "vox 2" finds "Vox 2". A channel that's a rack's name plus a number finds that rack when no other rack has the name, so "lec 1" and "lec 2" both find "Lec". Racks called "n/a", or nothing, are never matched. The Channels tab lists every named channel beside the rack it found, and marks the selected one. Pick a rack there to override a channel by hand (the MC's mic sharing the lectern's rack, say).

When a channel has no rack, Remora can leave SuperRack where it is or go back to its overview (Settings › Console). "Follow the console's selected channel" switches following off without disconnecting; it's in the menu too.



Following the routing (experimental)

Instead of the name, Remora can follow a channel's audio: from the desk's input patch, through the Dante subscriptions and any other links you tell it about, to the rack that input feeds in SuperRack. When that reaches exactly one rack, it wins over the name; an override still wins over both. It's off until you turn it on, and it only reads: Remora never changes a patch or a subscription.

1. Settings › Channels › **Routing…**, and tick **Find each channel's rack by routing, then by name**.
2. In Dante Controller, File › Save Preset. In Remora, **Import Dante Controller Preset…**, then pick which of its devices is the desk and which is the host's inputs (Dante Virtual Soundcard on the SuperRack Mac, say). Remora doesn't read Dante live, so import the preset again after changing subscriptions.
3. Type the rest of the routing as runs, one per line: a device's name, an optional domain (dante, madi, usb, aes50, adat, analog), in or out, then a channel or a range. "desk" is the console, "host" SuperRack's inputs.
    - `desk channel out 1-32 > desk dante out 1`: direct outs 1–32 on the desk's Dante outputs 1–32.
    - `MADI card madi in 1-64 > host in 1`: a MADI interface whose inputs are SuperRack's.

Where the facts come from:

- **The desk's patch** is read from a CL or QL, for input and ST IN channels. Only Dante inputs are understood so far: a channel patched to anything else falls back to its name. Other desks' patches can't be read, but a direct out typed as a run works with any desk.
- **The racks' inputs** come from SuperRack's session file over MIDI (Remora reads its own copy), or from the rack list over ProLink.

On the Channels tab, routing's answer sits beside each channel, with the path it followed when you hover over it. A ⚠ marks a channel where routing and the name pick different racks, and the picker says which won ("By routing: 11 Playback"). "Routing: 2 racks" means it reached more than one, so the name decided.

Routing

☑ Find each channel's rack by routing, then by name (experimental)

Remora follows a channel's audio from its input patch on the desk to a rack's input on the host, through the Dante subscriptions and the runs below. One rack reached wins over the name; an override still wins over both. Remora only reads: it never changes a patch or a subscription. The desk's patch is read from a CL or QL, and the racks' inputs from SuperRack.

Dante

Import Dante Controller Preset... | Forget It

"Main rig": 3 devices, 32 subscriptions.

The desk is QL5

The host's inputs are DVS-SuperRack

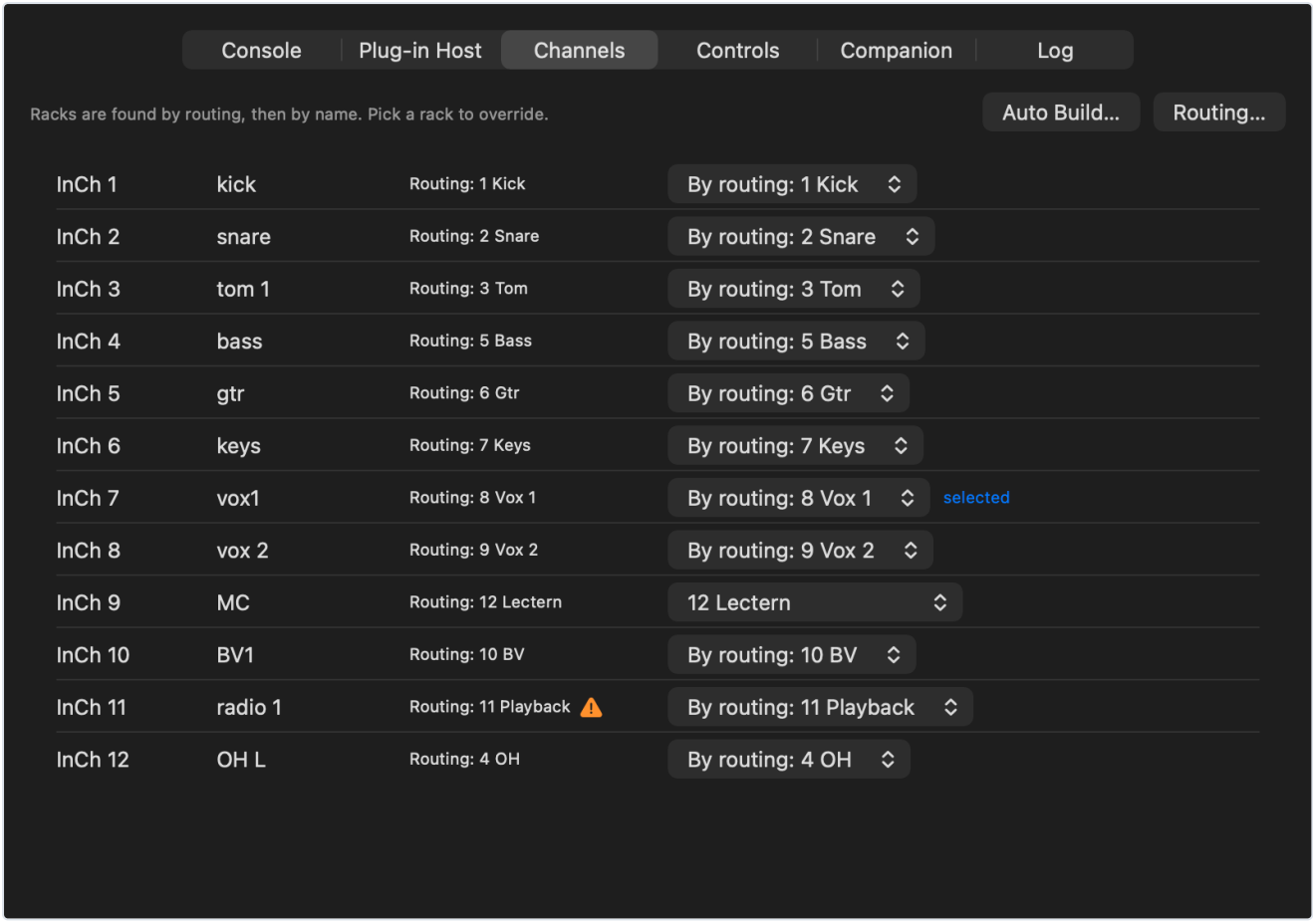
Other links, one run per line

```
desk channel out 1–32 > desk dante out 1
```

desk channel out 1-32 > desk dante out 1 (direct outs on Dante 1–32)
MADI card madi in 1-64 > host in 1 (a MADI interface is the host's inputs)
A device's name, an optional domain (dante, madi, usb, aes50, adat, analog), in or out, a channel or range. "desk" is the console, "host" the plug-in host's inputs.

80 links

Done



Auto build (experimental, new in 0.6.0)

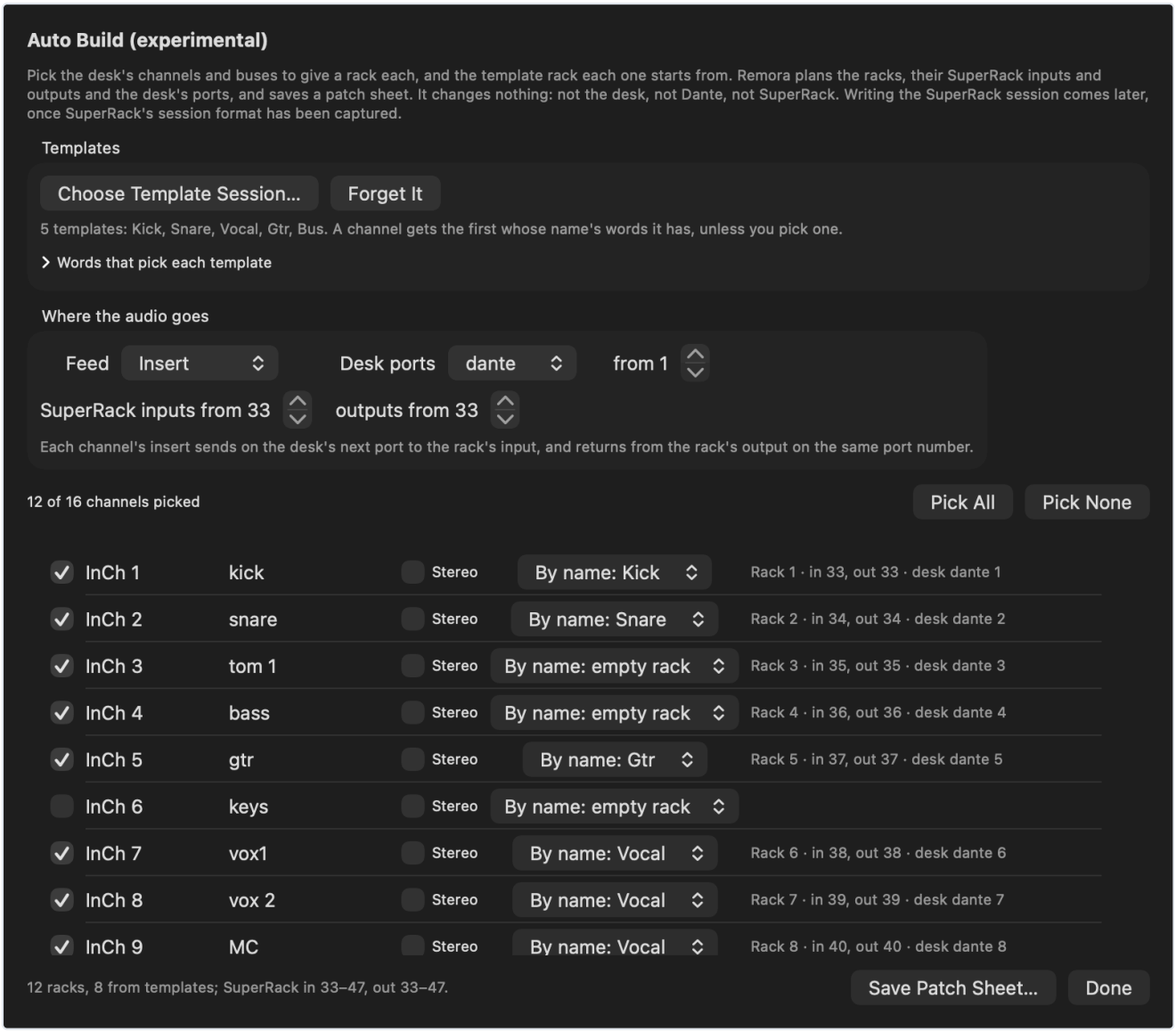
Auto build plans a SuperRack session for the desk: a rack for each channel or bus you pick, on its own SuperRack inputs and outputs, starting from a template rack. For now it plans and saves a patch sheet. It doesn't write the SuperRack session yet, and it never changes the desk, Dante or SuperRack.

1. In SuperRack, save a session whose racks are your channel strips: a rack called "Vocal" with its plug-ins, one called "Kick", and so on. That session holds your templates.
2. Settings › Channels › **Auto Build...**, then **Choose Template Session...** and pick it. Remora reads a copy, never the file itself.
3. Tick the channels and buses that should get a rack, and **Stereo** where one is a stereo pair. Remora doesn't read a desk's stereo links yet, so only a Yamaha ST IN or a Qu's ST starts as stereo. Only channels with a name are listed.
4. Each channel gets the first template whose name's words it has: "vox 2" takes "Vox". Under **Words that pick each template**, add more ("vox, bv, mc" for "Vocal"), or pick a template, or an empty rack, for any channel.
5. Under **Where the audio goes**, pick the feed:
    - **Insert:** each channel's insert sends to SuperRack and returns from it.
    - **Direct out:** SuperRack's outputs come back to spare inputs.

Then pick the desk's ports (Dante, MADI, USB…) with their first port, and SuperRack's first input and output. Each rack takes the next one, or two for stereo.

6. **Save Patch Sheet…** saves it as CSV, and as text beside it. Patch the desk from it.

A session has 64 racks at most. The racks take the channels' names, so once the session exists each channel finds its rack by name.



How fast a move is

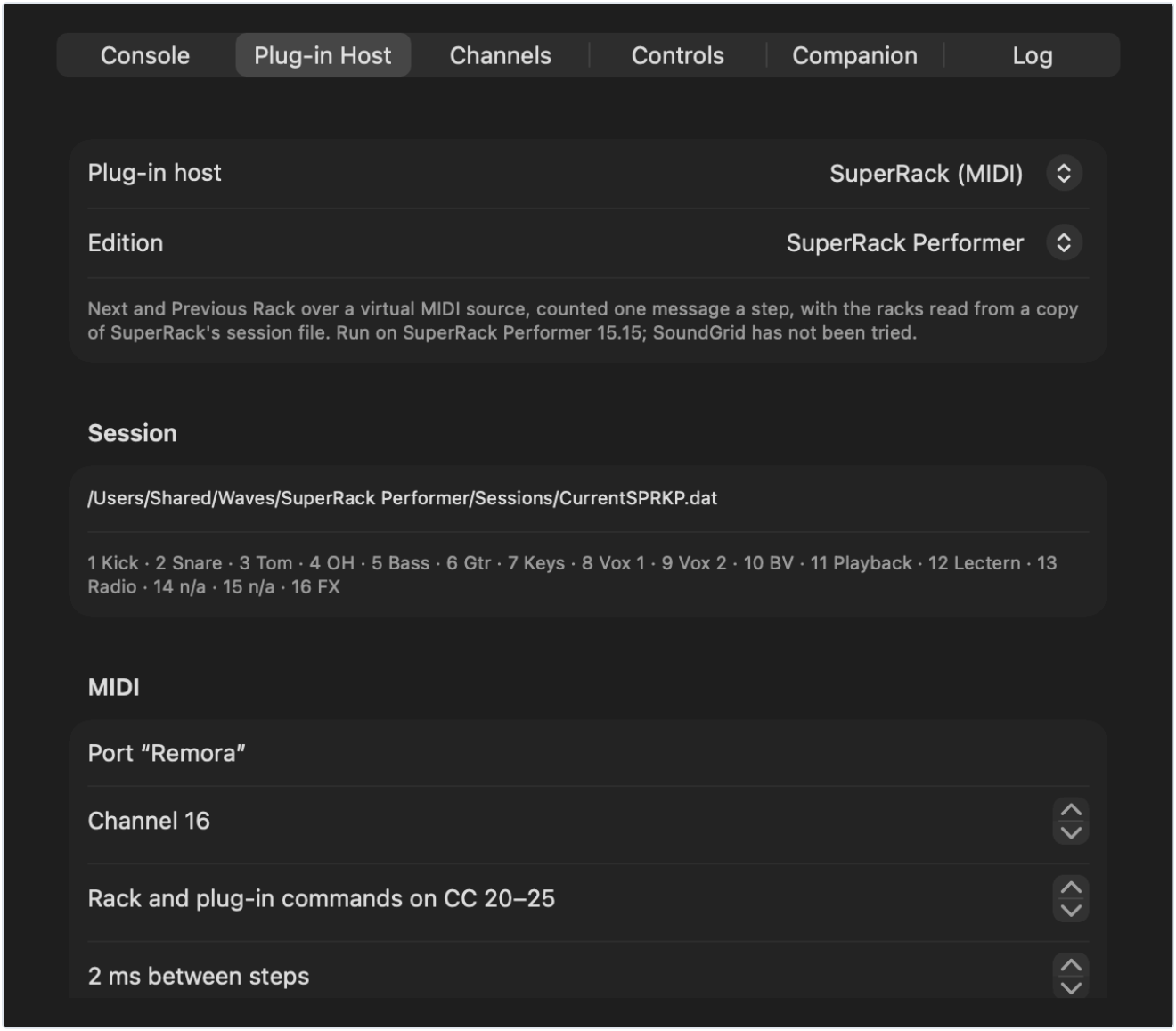
SuperRack's MIDI has no "go to rack 8". It has Next Rack and Previous Rack, one step a message, and it never says which rack it's on. So Remora reads the rack's name in SuperRack's top bar, works out how many steps it is from there, and sends them 2 ms apart. Across a 16-rack session that's about 30 ms of MIDI. The racks in between still flash past on SuperRack's screen.

After every move Remora reads the window again. If SuperRack isn't on the rack it should be, Remora goes back to rack 1 and counts, once. Racks that share a name (several "n/a") can't be told apart, so from one of those it counts too.

Without Accessibility it always counts: "Back to rack 1 first, every time" is safe whatever anyone clicks; "Count from the last move" is quicker, but a mouse click on a rack in SuperRack throws it until you press **Resync**.

The 2 ms spacing is new in 0.3.0, and it's the floor: traced against SuperRack, every step at 2 ms arrived, and at 1 ms some didn't. If moves come up short, raise "ms between steps" on the Plug-in Host tab.

SuperRack comes to the front whenever it takes a command from Remora, so the keyboard goes to it every time the desk moves it. Mind where ⌘Q lands.



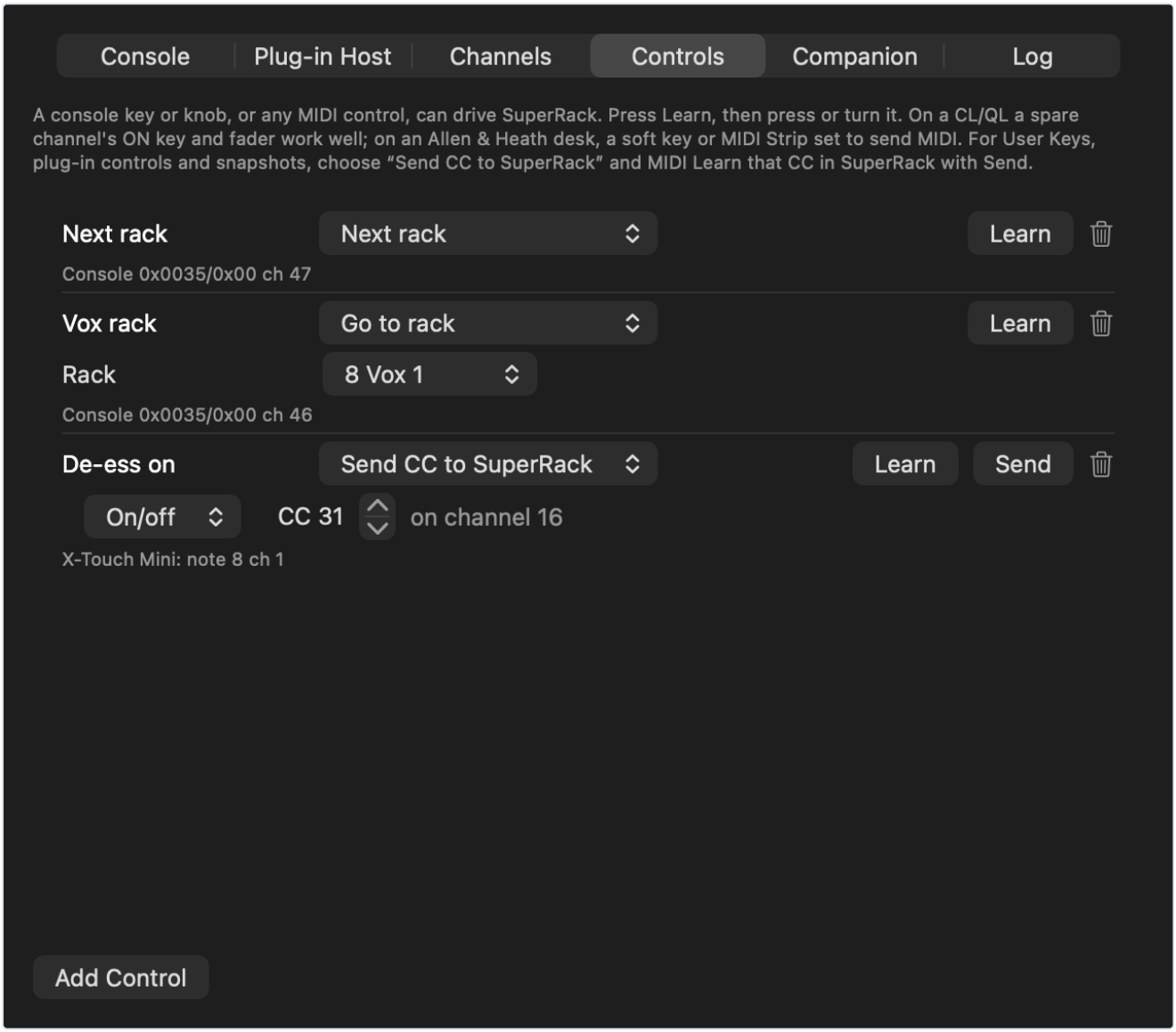
Controls

Settings › Controls turns any key, knob or fader into a SuperRack control. Add a control, press **Learn**, then press or turn the thing.

- On a CL or QL, a spare channel's ON key and fader work well, over the desk link.

- On an Allen & Heath desk, soft keys and MIDI Strips set to send MIDI come in over the desk link.
- Any MIDI controller on the Mac works, and so does A&H's MIDI driver.

Each control can step racks or plug-ins, **Go to rack** (pick the rack), open the rack page, go back to the overview, resync, or switch following on and off. **Send CC to SuperRack** passes a CC on for anything you MIDI Learn in SuperRack itself: User Keys, a plug-in's controls, snapshots. Press **Send** to fire it once while SuperRack is learning.



Third-party plug-in windows

SuperRack docks Waves plug-ins in the rack page, but anything else opens in a floating window and stays open when you move to another rack. With Accessibility, Remora can:

- **close them** when the rack, page or plug-in changes, as a docked plug-in would go (a window with SuperRack's pin set stays);

- **place them** over the rack page's plug-in area as they open (SuperRack won't let them be resized, so a wide one still covers the output column);
- **show the new rack's plug-in** after a rack change, by sending Back to overview and Open rack page (over MIDI only), which is what makes SuperRack open it. The overview flashes for a moment. 0.3.0 did nothing here at the default 2 ms, as SuperRack ignores the overview when the rack page follows that fast; 0.3.1 waits 0.1 s after a page change, so it works at the default spacing;
- **hide SuperRack while another app is in front** (0.3.1). Otherwise its plug-in windows sit over every other app. When you switch away with one open, Remora hides SuperRack the way ⌘H does; the audio carries on. Switch back to SuperRack, or move the desk, and it's all back.

It reads SuperRack's application log to know when the page or plug-in changes, and only ever presses a window's own Close button (never Bypass) or moves it.

Companion

Remora listens for OSC on UDP 9020. Use Companion's Generic OSC module, pointed at the Mac:

```
/remora/rack/next   /remora/rack/prev   /remora/rack/select <number or name>
/remora/rack/open   /remora/overview    /remora/rack/resync
/remora/plugin/next /remora/plugin/prev
/remora/follow <0|1>   /remora/follow/toggle
/remora/cc <number> <value>
```

Or use the SuperRack module for Companion (not in Companion's module store yet), set to **Through Remora**: it has these as actions, and presets with a button for each rack.

Remora's state (new in 0.6.0) lets Companion buttons show what Remora knows instead of firing blind: the racks and their names, the rack SuperRack is on and how Remora knows, whether it's following, and whether it can reach SuperRack. It's off until you set it: Settings › Companion › **Remora's state**, with the address of the machine running Companion (127.0.0.1 if it's this Mac) and a UDP port Companion listens on. The SuperRack module listens on 9021. Remora sends it to that address only, not back to whoever asked.

"How Remora knows" matters for a rack button. **Reported** means SuperRack answered the move over ProLink, and **seen** that Remora read the rack's name in SuperRack's window. **Counted** means Remora counted its steps and nothing came back, so a click in SuperRack makes it wrong. The SuperRack module's rack buttons go green for the first two and amber for counted. The README has every message.

When it doesn't follow

- **The fish stays hollow:** the desk isn't connected. Check the address, that the Mac and desk are on the same network, and that Remora has Local Network access (System Settings ›

Privacy & Security › Local Network).

- **The status line shows the channel but SuperRack doesn't move:** SuperRack can't hear Remora. Remove and re-add the MIDI Controller, as above, and check the mapping is loaded.
- **It moves, but to the wrong rack:** look at the Channels tab to see what the name matched, and override it. If SuperRack is a rack or two off, give Remora Accessibility, or press Resync.
- **Routing picks a rack you didn't expect, or none:** hover over its answer on the Channels tab to see the path it followed. If the Dante subscriptions have changed, import the preset again.
- **A Qu won't connect:** something else has its TCP MIDI connection. Only one at a time.
- **A dLive won't connect:** TCP MIDI security has to be No Security for Remora.
- **An X32 or Wing says "no answer from the desk":** check the address, and that nothing between the Mac and the desk blocks UDP 10023 (X32) or 2223 (Wing).
- **SuperRack (ProLink) never connects:** the controller's PORT has to be a wired Ethernet adapter, and its console IP and port have to be Remora's. If another program has the port, the Plug-in Host tab says so. SuperRack dials once when you press Assign, so press it again once Remora is running.
- **Another host doesn't move:** the Plug-in Host tab says why. A host that changes the sound gets nothing until it's ticked. An OSC host needs OSC switched on, on the port Remora sends to; a MIDI host has to be listening to Remora's MIDI port, on Remora's channel. REAPER needs its web interface on, with no username or password, and Cantabile its network server, each on the tab's port.
- **Logic lands on the wrong track:** Remora counts, so a track picked in Logic, or a folder opened or closed, throws the count. Press Resync.
- Menu › **Show Log** opens Remora's log in Console.

What has been tested

On a QL1 (V5.70a) and SuperRack Performer 15.15.12.13: following SEL presses, channel names, name matching, the plug-in window guard, the OSC commands, learned controls from a virtual MIDI source, and the restart behaviour above. Reading the rack from SuperRack's window was traced message by message against the real SuperRack at 20 ms spacing, and since at 2 ms. Hiding plug-in windows has only met unit tests so far.

SuperRack over ProLink: before the module was built, a test link was run against SuperRack Performer 15.15.12.13. It connected, read the rack list and showed a rack. The module then ran against the same SuperRack, and every command did what it should, checked in SuperRack's log and on its window: racks shown from the desk's selections, Next and Previous Rack and Plug-in, a rack no input feeds, the overview and the Rack page. On 2026-11-21 it drove SuperRack through a show, following an SQ-5. SuperRack SoundGrid hasn't been tried.

Routing has met unit tests, a simulated QL and a preset Dante Controller saved (an example published by DanteArchitect). It hasn't read a real desk's patch, or run in the app.

The other plug-in hosts, from documents only: each followed a simulated QL to the right rack, the OSC ones, REAPER and Cantabile against simulated hosts in `tools/` that fail if Remora sends anything off the host's list, and the MIDI ones with their messages logged instead of sent. None has met the real host.

The Allen & Heath SQ's remote port was worked out on an SQ-5 and used on a show with it, driving SuperRack over ProLink. The Behringer X32/M32 is built from documents, and people using it on their desks have reported it working.

From documents only, with unit tests: the Yamaha CL, DM7, DM3 and RIVAGE PM, the Allen & Heath Qu, dLive and Avantis and the SQ's MIDI, and the Behringer Wing. The CL, DM, PM, Avantis, dLive, X32 and Wing have also run against fake desks in `tools/`, which answer as the documents describe and fail if Remora sends anything but a read. Learned controls from a real desk key or hardware controller haven't been tried.

Auto build has met unit tests and a fake SQ, and hasn't read a real desk or a template session SuperRack saved. Remora's state has met unit tests and a test copy of Remora with a pretend SuperRack, read by the SuperRack module for Companion, in its tests and in Companion itself. It hasn't run beside a real SuperRack.

The README's status section has the full list.
