



Operator's Manual

Your radio world. One connection.

A practical guide for regular users of DIGI HAM LINK: joining the shared room, listening, transmitting, checking audio, and getting help.

Open the application	https://radio.digihamlink.com
Shared room	AllStar node 48407
Sign in with	Your callsign and DIGI HAM LINK password
Everyday operation	Listen first. Hold PTT to talk. Release to listen.

Edition: October 6, 2026. Written from the available application source and the shared-room behavior established for this project. Live controls and permissions may vary with the installed release and administrator settings.

This guide is for operators, not server administrators. It does not require you to install AllStar software, configure a bridge, or provide a personal node password for shared access.

Start here

DIGI HAM LINK turns a compatible browser into an amateur-radio voice console. The server supplies the connection to the assigned AllStar node and its configured network links. Your computer or phone supplies the screen, speaker, microphone, and internet connection.

For a regular user, the main destination is shared room **48407**. Approved users in that room hear the conversation carried by its connected systems. Users with transmission permission can speak through the same room. It is a shared conversation: everyone follows the owner's current network connections.

Quick start for an approved user

1. Open **<https://radio.digihamlink.com>** in your browser or installed Android web app.
2. Enter your callsign and DIGI HAM LINK login password, then select **Sign in**.
3. Allow microphone access when the browser asks. Even a receive-only account may encounter this request because the current audio-call setup requests a microphone.
4. Wait for the shared room to join automatically. Confirm the assigned node is **48407** and the audio connection is connected.
5. Listen before speaking. Check your headset or speaker volume.
6. With an Operator account, press and hold **HOLD TO TALK**. Wait about one second before starting your sentence.
7. Release the button when finished. Confirm the display returns to listening.
8. When leaving, release PTT, disconnect the audio call, and select **Sign out**.

How to use this manual

Read sections 2–4 before your first session. Use sections 5–8 for daily operation and audio setup. Sections 9–12 cover network permissions, account care, troubleshooting, and a compact reference.

An approved account does not guarantee that a remote network is connected or that someone is currently speaking. A successful browser connection, a healthy microphone meter, and a working remote radio path are three different things.

What the program does

The three parts of a conversation

Part	What it does
Your device	Captures your voice while PTT is held and plays received audio.
DIGI HAM LINK server	Authenticates your account, assigns your node, and carries browser audio.
Connected radio systems	Carry the conversation to and from the AllStar links and any configured digital-voice bridges.

Your internet connection takes the place of a local RF connection to the server. Regular shared access does not require a personal AllStar node number, node registration password, MMDVM hotspot, or separate bridge software on your device. You still need an approved account and any permissions required for your activity.

Shared access and personal-node access

Shared access: you join room 48407 and use the room's existing connections. The owner manages its destinations and shared bridge settings. Your account determines whether you can listen, transmit, or both.

Personal-node access: a separately authorized user is assigned an operating personal node. Its connections and available controls can differ. Hosting and activation of that node are administrator tasks. This manual concentrates on shared access.

Listening and transmitting are separate permissions

A **Listener** can receive audio but cannot use live PTT. An **Operator** can receive and transmit when those permissions are enabled. A node administrator has additional node-management permissions; regular users do not need that role.

If a control is absent or disabled, it can reflect your account permissions, a missing connection, an active test, or an unfinished operation. It is not a reason to create another account or attempt to change node settings.

Internet access is required

The installed Android version is a web app with a home-screen entry. It does not provide offline radio service. Server outages, mobile coverage changes, and browser restrictions can interrupt your session.

Register and prepare your account

Choose regular shared access

1. Open the application and select **Register a new account**.
2. Enter your name, callsign, and email address. Use your actual station details.
3. For Access type, choose **Join the shared DIGI HAM LINK room**.
4. Create a DIGI HAM LINK login password and enter it again in the confirmation field.
5. If the form requires a license document, attach a clear official license showing the callsign and license holder's name.
6. Select **Submit registration**, read the result, and wait for administrator approval.

The “registration received” message confirms submission. It does not mean your account is active. Do not repeatedly submit the same request while waiting. If you need help, give the owner your callsign and the time of submission.

Callsign and password details

The current callsign form accepts letters and numbers only; callsigns containing a slash are not accepted. You sign in using your callsign, even if the application maintains a separate internal username.

The source accepts passwords 8–128 characters long using letters, numbers, and these symbols: ! @ % _ + = . , : ? / -. Choose a password unique to this service. Your DIGI HAM LINK password is separate from an AllStar node registration password.

License documents

The owner can make a license upload optional or required. Accepted types are PDF, JPG/JPEG, and PNG, up to 10 MB. Follow the requirement shown on the form. Selecting another file replaces your current selection; use **Remove selected file** if necessary.

License documents are supplied for private registration review, not for posting on the public marketing website. Avoid adding unrelated personal documents to the upload.

If the owner creates your account

You may receive an account created by the owner instead of registering yourself. Confirm whether it is a regular shared account or a personal-node account, and whether it is Listener or Operator. Use the supplied login instructions. Keep passwords out of public chats and screenshots.

Your device and first sign-in

Before opening the radio

- Use a compatible, current browser. Android Chrome and desktop browsers are the intended environments described in the application.
- Use the HTTPS application address. Browser microphone features require a secure page.
- Connect a headset when practical. It reduces room noise and speaker-to-microphone feedback.
- Check that your selected microphone works with the device. Close another app if it is occupying the microphone.
- Keep the application visible and the screen awake while operating.

Sign in and allow audio

Enter your callsign and DIGI HAM LINK password under **Account and sign in**. Select **Sign in**. If your account has authenticator protection enabled, complete the requested verification step. Do not use your AllStar node password as the login password.

A regular shared account attempts to join room 48407 automatically after sign-in. The old “Connect to your node 48407” button is hidden for shared users. Allow microphone access when prompted, then wait for the call to finish connecting.

If the browser blocks playback, use the received-audio playback control or interact with the page, then check your device’s media volume. A page that says “Signed in” may still be waiting for its audio connection.

If automatic joining does not complete

Read the status message before trying again. Fix microphone permission or connectivity issues first. A shared account without an active call can show **Start radio** on the recovery control. Select it to start the audio call after the issue is corrected.

After you deliberately disconnect, the application does not continually rejoin behind your back. Use Start radio or Reconnect audio when ready to return. Avoid repeatedly refreshing during an active transmission.

Leave one active session

Use one active radio session for the same account. Multiple open tabs or simultaneous devices can cause confusing audio and session behavior. Before moving to another device, release PTT, disconnect, and sign out on the first device.

Find your way around

Area or control	How a regular user uses it
Radio	Main operating page: connection status, activity display, live PTT, disconnect and audio recovery.
Now Talking	Shows available station activity, identity information and transmit/receive state.
Settings	Audio playback, mic gain, microphone selection, audio tests, profile, password and connection diagnostics.
Nodes	Information about available connections and configured bridges. Shared connection changes remain owner-controlled.
Activity	Server observations and connection messages. Some additional controls are permission-dependent.
Reconnect audio / Start radio	Restarts or starts your browser-to-node audio call, with PTT released.
Disconnect	Ends your browser audio call.
Sign out	Ends your signed-in application session.

Small screens

On Android, navigation may appear in a menu rather than as a full row of tabs. Open the navigation menu and select Radio or Settings. Control placement can change as the interface is updated; the labels above identify their purpose.

Read status before pressing buttons

“Joining shared room” means setup is still in progress. “Listening — hold to transmit” indicates the live node call is ready for an account allowed to transmit. “Audio disconnected” means the browser audio call has ended. A signed-in account can be audio-disconnected.

An unavailable activity display does not necessarily mean the audio call has failed. Likewise, a visible node or callsign does not prove that the received audio is intelligible. Use the connection status and what you actually hear together.

Listen and understand activity

Start by listening

After joining room 48407, listen for an existing conversation. Set comfortable device volume and use received-audio playback if needed. Leave live PTT released while listening. A silent room may simply have no current speaker.

The owner’s selected links determine which conversations reach the shared room. If you expected a particular talkgroup or system, ask the owner which destinations are connected. Reconnecting your browser does not choose a different DMR group.

Now Talking and Last Heard

The main activity display can show a callsign, name or description, node information, elapsed activity time, and multiple observed sources. Available identity information depends on the connection and server observations.

Display state	Interpretation
OFF	You are signed out.
IDLE	Activity information is available, with no current source reported.
RX	Incoming station activity is being reported.
TX	Your interface is in transmit mode.
Dash / unavailable	Fresh activity information is unavailable.

Last Heard is recent reported activity, not a live recording. A callsign link can open a QRZ page in another tab. Finish transmitting before leaving the application to inspect it.

What station identity can and cannot show

An AllStar node can identify the registered node or system rather than the individual operator speaking through it. Reported callsigns are useful operating clues, not identity verification. Overlapping sources can also be reported.

The received-audio indicator shows audio measured in the browser. Network packet counts show traffic reaching the browser. Neither alone proves that a particular remote operator is being heard correctly.

Transmit with hold-to-talk PTT

The normal transmission sequence

1. Listen for a clear pause and follow the connected system's operating practices.
2. Check that the radio audio call is connected and your account has transmission permission.
3. Press and hold **HOLD TO TALK**. Keep holding for the whole transmission.
4. Pause about one second before speaking. The current implementation waits roughly 650 milliseconds after sending the key command before enabling outgoing microphone audio.
5. Identify with your callsign and speak at a normal, steady level.
6. Release PTT immediately when finished. Confirm the control and display return to listening.
7. Leave a pause for other operators before transmitting again.

Desktop and phone controls

On a computer, press and hold the button with the primary mouse button. On a phone, touch and hold it. Releasing the pointer, canceling the touch, or losing pointer capture releases PTT. This is hold-to-talk, not a tap-to-latch control.

On a keyboard, focus the live PTT button, then hold Space or Enter. Release the key to stop. These keys are not global PTT shortcuts; do not expect them to transmit while typing in another field.

Automatic release

The current application releases PTT after a maximum of **120 seconds**. Switching away, hiding the page, or losing window focus also releases it. Keep transmissions shorter than the timeout; treat automatic release as a backup, not your normal way to stop.

If PTT is disabled

Check whether you have a Listener account, missing transmit permission, an unconnected audio call, or an active audio test. Wait for any command in progress to complete. If your account should permit transmission, contact the owner rather than changing node or bridge controls.

Sound matters more than meter height

Speak close enough to the microphone for clear audio without shouting. A meter driven to its maximum can mean distortion. If another operator reports clipping or excessive loudness, reduce microphone gain and repeat a short test.

Set up and test your audio

Microphone and speaker selection

In Settings, use **Find microphones** and select the intended microphone **before connecting**. The browser may show generic device names until microphone permission is granted. If a headset is plugged in after the call starts, disconnect, select it, and start the call again.

Speaker volume changes received playback only. Device media-volume buttons also affect it; browser volume changes can be limited on phones. Microphone gain changes outgoing live-call audio, not speaker volume.

Microphone gain

Start at **0 dB**. Use Reset mic gain to return to that value. The gain range in the available source is -20 to +12 dB and the selection is saved in that browser. The adjusted level meter can show microphone activity even when outgoing audio is muted before PTT.

If “Level too high — reduce mic gain” appears, reduce gain and speak again. Make small changes. Do not raise gain merely because no remote station is currently answering.

Three tests with different purposes

Test	What it checks
Local microphone test	Records a short sample inside your browser only. It does not connect your voice to an AllStar node.
Test server audio — hear “one”	Checks received audio from the server to your device.
Test my voice — private echo	Checks your microphone and the round-trip browser/server voice path without connecting an AllStar node.

For a server audio or private echo test, first release PTT and **Disconnect** the live call. The tests are disabled while another call exists. Private echo enables your microphone for the test; speak normally without using live PTT. Select Stop voice test or Stop audio test afterward, then Start radio or Reconnect audio to return to room 48407.

For a local test, select Enable microphone, hold HOLD TO RECORD, release, and press Play to hear the sample. Local recording stops automatically after 30 seconds. Disable microphone when finished. The local recorder is separate from live-call gain processing, so a good local sample alone does not verify your adjusted transmit path.

Use Android and recover audio

Install the web app

1. Open the application in Android Chrome using HTTPS.
2. Select **Install app** or **Install on Android** if offered.
3. Follow the browser's installation prompt. If no prompt is available, use Chrome's menu and its Add to Home screen option.
4. Open DIGI HAM LINK from its home-screen icon and sign in.

Installation gives you a convenient app entry and standalone display. It still uses browser technologies and an internet connection. It does not add an RF transmitter to the phone or guarantee operation with the screen locked.

While operating

- Keep the radio page visible and the screen awake.
- Release PTT before switching apps, answering a call, or opening another screen.
- Use a headset and check that Android media volume is audible.
- Avoid refreshing or closing the app during a transmission.
- If changing between Wi-Fi and cellular data interrupts audio, check status before attempting recovery.

Reconnect audio

This control ends the current browser audio call and attempts a new call to your assigned node. It releases PTT first. It does not restart the AllStar server, reset your account, select a different destination, or guarantee that a remote bridge is working.

1. Release PTT and wait until you are no longer transmitting.
2. Confirm your internet connection works and the application remains signed in.
3. Select **Reconnect audio**, or **Start radio** if that label appears.
4. Allow microphone access if requested and wait for the new connection.
5. Listen first before transmitting again. If the interface tells you to sign in again, do that instead of repeatedly pressing recovery.

After a deliberate Disconnect, automatic room joining is not repeatedly retried. Starting radio manually is expected when you return. If the server itself is unavailable, recovery cannot fix it; contact the owner.

Shared networks and operating habits

Who controls the connections?

Regular users share the owner-managed links of room 48407. They can listen and, with permission, transmit. They do not independently choose another AllStar destination or administer the shared YSF, EchoLink, or AllStar connections.

The shared DMR/BrandMeister bridge follows the owner's talkgroup selection. A visible DMR panel is not permission for every user to change it. Ask the owner for a destination change and wait until the room is clear.

Additional modes

YSF and EchoLink depend on their own server configuration, credentials, and operational status. The presence of a tab or integration option does not mean that a connection is active. The available YSF path is described in the source as supporting narrow voice/DN; do not assume every YSF voice mode is supported.

A bridge can carry your voice to another network. Before speaking, know which systems are connected, follow their operating rules, and use your callsign. Do not experiment with node commands on the shared room.

Good operating habits

- Listen for ongoing traffic and avoid talking over another station.
- Speak clearly and leave pauses so other operators can join.
- Identify appropriately for your license and the connected system.
- Use brief audio checks instead of long test transmissions.
- Avoid playing received speaker audio back into your microphone.
- Do not create a second live audio path into the same shared conversation.
- Respect nets, emergency traffic, and instructions from the owner or net controller.

Disconnecting your device is not disconnecting the network

Disconnect ends your browser's audio call. Remote links can remain active on the server after you leave. Sign out when done, but do not assume that this disconnects the room's AllStar nodes or digital-voice bridges for everyone else.

Profile, privacy, and getting help

Maintain your profile

Open Settings and **My profile and password**. Select Load my profile, review the displayed name, callsign, and email, then Save my profile after changes. Do not change your callsign casually: it is part of your sign-in identity and may require owner review.

To change a password, enter the current DIGI HAM LINK password, enter the new password twice, and select Change my password. The current interface tells you to sign in again with the new password after a successful change.

Forgotten password

Open Forgot your password?, enter your callsign, and request a reset link. Delivery depends on the owner's configured email service. If no usable reset email arrives, check your junk folder and contact the owner. The presence of the reset button alone does not establish that email delivery is configured.

What others may see and hear

Treat shared-room speech as communication with everyone on its connected systems, not as a private call. Station activity may display callsign and other available identity information. If an owner enables public listen-only streaming, received station audio can have a wider audience; ask the owner about the room's streaming policy.

Keep your login password, authenticator codes, reset links, and personal node credentials private. Avoid sending them in support messages. A microphone permission is a device permission; live transmission is still governed by the application's PTT and account permissions.

A useful support report

- Your callsign and whether your account is Listener or Operator.
- Assigned node, normally 48407 for shared access.
- Device, browser, and whether you are using the installed Android app.
- Approximate time of the problem and whether Wi-Fi or cellular data was used.
- The exact non-secret status/error text.
- Which audio tests worked and which failed.
- Whether others heard you and whether you heard them.

Download connection diagnostics can provide states and network statistics. The source describes that report as excluding passwords, cookies, and voice recordings. Review any screenshot before sharing it. Do not send unrelated registration documents with a routine audio report.

Troubleshooting and quick reference

Problem	What to do
Registration received, but sign-in fails	Wait for approval. Confirm callsign/password. Ask the owner whether the account is active.
Signed in, no audio call	Allow microphone permission; use Start radio. Signed-in status alone is not an audio connection.
Connected, but silence	Check playback and media volume. Listen for traffic. Run server audio test after disconnecting. Ask which remote links are active.
PTT unavailable	Check Listener vs Operator, transmit permission, connection status, and whether a test is running.
Others cannot hear you	Wait one second after pressing PTT. Check the selected mic. Disconnect and run private echo. Confirm with the owner if echo works but network audio fails.
Voice distorted or too loud	Reduce microphone gain, start from 0 dB, and check adjusted level. Speak normally; move away from the mic if needed.
Echo or squeal	Use a headset, lower speaker volume, and remove extra tabs/devices feeding the same conversation.
Audio lost after phone locks or switches apps	Bring the app to the foreground, keep the screen awake, and use Reconnect audio. Sign in again if requested.
No known callsign in Now Talking	Some sources identify a node or show unknown activity. It does not necessarily mean nobody is speaking.
Shared talkgroup is different than expected	Ask the owner which group is selected. Browser recovery does not change the shared DMR destination.

Daily operating checklist

Start: open app → sign in → allow microphone → automatic join to 48407 → listen.

Talk: wait for a clear pause → hold PTT → pause one second → speak → release.

Recover: release PTT → check connection → Reconnect audio / Start radio → listen again.

Finish: release PTT → Disconnect → Sign out.

Remember: shared room 48407; live transmission limit 120 seconds; mic gain starts at 0 dB; private echo and server tests require the live call to be disconnected; regular users follow owner-managed network connections.