MÉTRONOME
LE SON VRAI

DSAS

TECHNICAL GUIDE & BEST PRACTICES

PREFACE

This technical guide is designed as a **supplementary resource** to the official DSAS User Manual provided with your device. While the User Manual covers standard setup and operation procedures, this document addresses specific technical questions, advanced configurations, and best practices that may arise during extended use.

Document Scope

This guide provides:

- **Technical clarifications** on hardware specifications and capabilities
- **Best practices** for file management and system optimization
- **Detailed explanations** of storage, network, and connectivity options
- **Troubleshooting insights** based on real-world customer inquiries

Primary References

DSAS User Manual (included with device)

- Initial setup and basic configuration
- Hardware connections and specifications
- Standard operating procedures, safety and warranty information

Additional Information and Technical Assistance:

- Métronome support: support@metronome-technologie.fr
- Web: metronome.audio/digital-sharing-dsas

Audirvāna Support Resources

For questions specifically related to **Audirvāna Studio software features, operation, or troubleshooting**, please consult:

- **Audirvāna Knowledge Base:** help.audirvana.com
- **Audirvāna Support:** support@audirvana.com
- **Audirvāna Community Forum:** community.audirvana.com

Métronome's Role

Métronome handles DSAS hardware, system configuration, and storage management. For questions regarding music organization, playback features, or app functionality, Audirvāna's dedicated support team provides expert assistance.

How to Use This Guide

This document is organized by technical topic rather than sequential setup steps. Navigate directly to sections relevant to your specific questions or requirements. Each section is self-contained and can be consulted independently.

Table des matières

1- NETWORK & CONNECTIVITY

CONTROL & ACCESS INTERFACES

Audirvāna Remote *Application (Primary Control) (see AUDIRVĀNA INTERFACE)*

- iOS/Android apps: Full remote control and playback management

Web Interface (System Configuration) (see WEB INTERFACE)

- Embedded web client accessible via browser at dsas.local
- Functions: Network setup, storage management, firmware updates, diagnostics

Samba File Share (File Transfer) (see FILE TRANSFER METHODS)

- Network file access for transferring music to internal storage
- Credentials: dsas/dsas
- Protocol: SMB (Windows/Mac compatible)
- **Essential for populating internal SSD library**

NETWORK CONNECTION

Ethernet Connection (Recommended)

1. Connect Ethernet cable from your router/switch to DSAS rear panel
2. Connection activates automatically via DHCP
3. Green LED on Ethernet port confirms link establishment
4. **Always takes priority** over WiFi when both are configured

Advantages: Higher bandwidth (Gigabit), lower latency and jitter, more stable connection—**recommended for high-resolution streaming and optimal audio quality**.

WiFi Connection

Prerequisites: ⚠ **Before any WiFi setup:** Connect the WiFi antenna to rear panel connector (required for signal reception)

Initial Setup (No Ethernet Available):

Use case: First-time setup without Ethernet access

1. **Power on DSAS** and wait approximately **1 minute**
    - DSAS attempts to connect to any previously saved network
    - If no connection is found, it automatically creates a temporary WiFi access point
2. **Connect to DSAS Access Point:**
    - On your mobile device, search for WiFi network: DSAS_XXXX
    - Connect to this temporary network (no password required)
3. **Access Configuration Interface:**
    - Open your browser and enter: dsas.local
    - **Alternative:** Scan QR code (see printed manual)

4. **Configure WiFi:**
    - Select your home WiFi network from the available list
    - Enter WiFi password
    - Confirm connection
5. **Automatic Reconnection:**
    - DSAS disconnects from temporary access point
    - Connects to your configured network
    - Front LED stops blinking and becomes solid

Alternative Setup (via Ethernet):

Use case: Configure WiFi backup while Ethernet is active

1. Ensure Ethernet connection is active and functional
2. Access DSAS web interface: http://dsas.local (or device IP address)
3. Navigate to WiFi configuration section
4. Select your WiFi network from list and enter credentials
5. Save configuration

Failover behavior: WiFi credentials are saved but remain inactive. If Ethernet cable is **disconnected or connection lost**, DSAS automatically switches to WiFi within seconds.

Connection Status Indicator:

Front LED behavior:

- **Blinking (slow):** Searching for network connection / No connectivity
- **Solid (fixed):** Successfully connected and operational (Ethernet or WiFi)

Network Priority & Redundancy:

Connection hierarchy:

1. **Ethernet** (if cable connected) → Primary connection
2. **WiFi** (if Ethernet unavailable) → Automatic failover

Best practice: Configure both connections for seamless redundancy—DSAS automatically switches to WiFi if Ethernet fails, ensuring uninterrupted service.

CONNECTIVITY & NETWORK ARCHITECTURE

Direct Router vs. Network Switch

DSAS works reliably connected directly to any modern router. For improved sound quality, add an audiophile network switch between DSAS and router—optional but beneficial for high-end systems.

Router Requirements

Any router with Gigabit Ethernet ports works perfectly. DSAS is router-agnostic; both consumer and enterprise-grade models perform reliably.

2- STORAGE & DATA MANAGEMENT

PRIMARY SYSTEM DRIVE (Disk1)

DSAS comes equipped with a **2TB PCIe Gen 4 NVMe SSD** installed in slot 1. This drive serves as the primary storage for:

- Audirvana database and library indexes
- User playlists and favorites
- System cache and temporary files

⚠ *Primary Drive Restrictions*

Disk 1 must **never be removed or replaced**. It contains essential system data required for DSAS operation.

Playlist and Favorites Backup: Local playlists and favorites stored on disk1 can be backed up directly from the Audirvana Remote interface. Refer to PLAYLIST AND FAVORITES BACKUP or to the DSAS User Manual for the complete backup procedure.

STORAGE EXPANSION (Disk2 – Optional)

SSD Hardware Requirements

DSAS slot 2 accepts **standard third-party M.2 NVMe SSD drives** (no proprietary Métronome hardware required).

Technical specifications:

- **Interface:** M.2 NVMe (PCIe Gen 3 or Gen 4 x1 compatible)
- **Form factor:** 2280 (22mm x 80mm)
- **Controller:** Any standard NVMe controller

Compatible drive types:

- Consumer-grade NVMe SSDs (Samsung, Crucial, WD, etc.)
- Professional/enterprise NVMe drives
- Any M.2 2280 NVMe drive meeting PCIe interface requirements

Storage Capacity Guidelines

Métronome has tested and certified drives up to 2TB for slot 2. Larger capacity drives should work but are not officially certified.

EXTERNAL STORAGE SPECIFICATIONS

USB External Drives

Supported connections:

- USB-A 3.0 port + USB-C 3.0 port (rear panel)
- Compatible with USB hard drives, SSD enclosures, and flash drives

File system compatibility: exFAT / NTFS / ext4

Read-Only Operation

USB external drives are mounted in **read-only mode** by default. This design choice ensures:

- **System stability:** Prevents filesystem corruption from unexpected disconnections
- **Data integrity:** Protects your music library from accidental modifications
- **Performance optimization:** Eliminates write operations that could interfere with audio playback
- **Simplified management:** No synchronization conflicts with internal storage

Use case: USB drives are ideal for importing large music collections into DSAS internal storage or for temporary access to external libraries without modifying the source.

USB-C Performance Note: If USB-C transfer speeds seem slower than expected, try **physically reversing the cable connector**. Due to USB-C's reversible design, some cable/device combinations achieve optimal performance in only one physical orientation.

Network Attached Storage (NAS)

DSAS can access NAS devices directly through **Audirvāna Remote application**, offering flexible network-based storage expansion.

Configuration:

- Add NAS shares directly in Audirvāna Remote (iOS/Android)
- Supports SMB protocols
- No physical connection to DSAS required
- Access multiple NAS devices simultaneously

Advantages:

- Unlimited storage capacity (limited only by your NAS)
- Centralized music library accessible by multiple devices
- No impact on DSAS internal storage

Performance considerations:

- Network speed affects loading times (Gigabit Ethernet recommended)
- WiFi may introduce occasional buffering (wired connection preferred for NAS)
- Audirvāna handles network latency transparently

Best practice: Use internal M.2 storage for frequently played albums and NAS for archive/rarely accessed content to maximize performance while maintaining access to your complete collection.

3- FILE TRANSFER METHODS

All file operations (network, USB, internal transfers) use DSAS's Samba interface for unified data management.

ACCESSING DSAS SAMBA SHARES

Connection credentials: dsas/dsas (username/password)

Windows 10/11

1. Open **File Explorer**
2. In address bar, type: \\dsas or \\<DSAS-IP-address>
3. Press **Enter**
4. When prompted, enter credentials:
    - Username: dsas
    - Password: dsas
    - ☑ Check "Remember my credentials"
5. **Available shares appear:**
    - \\dsas\disk1 - Primary internal storage
    - \\dsas\disk2 - Secondary storage (if installed)
    - \\dsas\usb0 - First Connected USB drive
    - \\dsas\usb1 - Second Connected USB drive

Tip: Right-click share → "Map network drive" for permanent desktop access (e.g. Z: drive)

macOS

1. Open **Finder**
2. Press ⌘**K** (or Finder menu → "Connect to Server")
3. Enter server address: smb://dsas or smb://<DSAS-IP-address>
4. Click **Connect**
5. Select **Registered User**, enter credentials:
    - Name: dsas
    - Password: dsas
6. **Available shares appear in Finder sidebar:**
    - disk1 - Primary internal storage
    - disk2 - Secondary storage (if installed)
    - usb0 - First connected USB drive
    - usb1 - Second connected USB drive

Tip: Add to favorites for quick access (drag share to Finder sidebar)

TRANSFER METHODS

Network Transfer (Primary Method)

Use case: Regular library updates, remote management

Procedure:

1. Connect to DSAS Samba shares (see above)
2. Navigate to desired destination (disk1 or disk2)
3. Drag-and-drop files/folders from your computer

Best practices:

- **Use wired Gigabit Ethernet** (not WiFi) - up to 10x faster
- Transfer during off-peak hours (avoid streaming conflicts)
- Work in batches (100GB-200GB chunks for reliability)

USB Flash Drive Transfer (Recommended for initial library)

Use case: First-time library migration, large batch imports

Procedure:

1. **Prepare USB drive** on your computer:
    - Format: exFAT or NTFS
    - Copy music files to USB drive
2. **Connect USB drive** to DSAS USB port
3. **Access DSAS Samba interface** (see ACCESSING DSAS SAMBA SHARES)
4. **Navigate to shares:**
    - Source: \\dsas\usb0
    - Destination: \\dsas\disk1 or \\dsas\disk2
5. **Copy files** by dragging between shares in File Explorer/Finder

Advantages over network:

- **Much faster** - USB 3.0 bandwidth
- **Higher reliability** - no network interruption risk

Note: These transfers occur internally within DSAS (no network bottleneck), but are managed through the Samba interface for simplicity.

Internal Disk-to-disk Transfers

Use case: Moving files between disk1 and disk2 (backup, reorganization)

Same Samba workflow:

1. Access DSAS Samba shares
2. Open two File Explorer/Finder windows:
    - Window 1: \\dsas\disk1
    - Window 2: \\dsas\disk2
3. Drag-and-drop files between windows

Note: These transfers occur internally within DSAS (no network bottleneck), but are managed through the Samba interface for simplicity.

4- MUSIC LIBRARY & CONTENT

AUDIRVĀNA INTERFACE (Primary Music Management)

All music library management, playback control, and content organization are handled exclusively through **Audirvāna Remote** application (iOS/Android). DSAS does not provide a proprietary music interface—Audirvāna Studio is the complete user experience layer.

Interface Access

Download Audirvāna Remote from:

- **iOS:** App Store
- **Android:** Google Play Store

The app automatically detects DSAS on your local network after initial setup.

First Connection Setup:

Upon first launch, Audirvāna Remote will prompt you to **connect your Audirvāna account** and **activate the included 3-year subscription**. This process takes only a few minutes.

See AUDIRVĀNA LICENSE MANAGEMENT section for detailed account creation and license activation procedures.

For Comprehensive Guidance

Audirvāna provides extensive documentation and support resources optimized for their platform:

- **User manual & help center:** help.audirvana.com
- **Direct assistance:** support@audirvana.com

Métronome's Role

Métronome handles DSAS hardware, system configuration, and storage management. For questions regarding music organization, playback features, or app functionality, Audirvāna's dedicated support team provides expert assistance.

MUSIC SOURCE LOCATIONS

DSAS provides flexible access to music from multiple storage locations, all managed through the Audirvāna Remote interface.

Available Music Sources

Internal Storage

- **Disk 1 (Primary):** 2TB NVMe SSD - System drive with user music library
- **Disk 2 (Optional):** Expandable M.2 slot for additional local storage

External Storage

- **USB Devices:** USB-A 3.0 and USB-C 3.0 ports for external drives (read-only access)
- **Network Attached Storage (NAS):** SMB (v2.0+) protocol support for network-based music libraries

Streaming Services

- **Integrated Services:** Qobuz, TIDAL, and other streaming platforms accessible via subscription accounts configured in Audirvāna Remote

Source Priority: All sources appear unified in the Audirvāna interface. Internal drives offer fastest access, while external/network sources provide expanded capacity. Streaming services complement local libraries with on-demand content.

PLAYLIST AND FAVORITES BACKUP

System Architecture

The primary drive (disk1) stores critical user data:

- Audirvāna database and library indexes
- Local playlists and favorites
- User preferences and settings

Backup Strategy

Audirvāna provides a built-in backup function for local playlists and favorites. **This process is manual** — regular backups are recommended to protect against data loss.

Storage Threshold Warning: DSAS monitors disk usage and displays alerts in Audirvāna Remote when any drive exceeds 95% capacity. Maintaining space below this threshold ensures optimal system performance.

Creating a Backup

Procedure:

1. Open **Audirvāna Remote** → Navigate to **Settings** → Select **LOCAL** section
2. Scroll to bottom of page → Locate **Backup and Restore** options
3. Select **"Backup"** button
4. Choose destination location and specify filename
5. Confirm to generate .audirvana_bck file

File Transfer: Access the backup file via network connection to DSAS (see FILE TRANSFER METHODS section) and transfer to external storage or computer for safekeeping.

Restoring from Backup

Procedure:

1. Open **Audirvāna Remote** → Navigate to **Settings** → Select **LOCAL** section

2. Scroll to bottom of page → Locate **Backup and Restore** options
3. Select **"Restore"** button
4. Navigate to backup file location → Select .audirvana_bck file
5. Confirm restoration process

Note: A confirmation dialog will display restoration progress and completion status.

Use Case: This backup/restore function is essential when:

- Replacing or upgrading internal storage (disk1 replacement requires Métronome service intervention)
- Recovering from database corruption
- Migrating user data to a replacement DSAS unit

DIRECT MUSIC DOWNLOAD TO DSAS

Current limitation: Direct download from Qobuz/TIDAL to DSAS is **not natively supported**.

Recommended workflow:

1. Download purchased albums to PC/Mac (Qobuz/TIDAL app)
2. Transfer to DSAS via network share or USB drive
3. Audirvāna automatically indexes new content

CD RIPPING CAPABILITIES

Built-in CD Ripping Support

Question: Does DSAS support CD ripping with external USB drives or DST integration?

No native CD ripping functionality is currently integrated into DSAS firmware.

Technical rationale:

- DSAS is optimized as an **audio playback/streaming device**, not a data extraction workstation
- CD ripping requires additional software stack (error correction, metadata retrieval, encoding)
- This would compromise system simplicity and audio-focused resource allocation

Recommended Workflow

For CD ripping:

1. Use dedicated PC/Mac with professional ripping software (dBpoweramp, Exact Audio Copy)
2. Transfer ripped files to DSAS via:
    - **USB direct connection** (fastest, recommended for large batches)
    - **Network transfer** (Samba share dsas/dsas)

DST CD Player Integration

The DST cannot be used for ripping:

- DST is a **transport/player** optimized for sonic performance,
- No digital data extraction capability
- Designed for real-time playback, not file creation

Alternative solution: If customers frequently rip CDs, recommend maintaining a separate ripping station with verified hardware (Asus BW-16D1X-U or Pioneer drives) and dBpoweramp software.

5- AUDIO OUTPUT & PLAYBACK

AUDIRVĀNA PLAYBACK SETTINGS (Audio Engine Configuration)

All playback parameters, audio processing, and output configuration are managed through **Audirvāna Remote** application. DSAS hardware provides the optimized platform, while Audirvāna Studio's audio engine handles all sonic processing and DAC communication.

Why These Settings Matter

Audirvāna's audio engine is designed specifically for high-fidelity playback. Settings like SRC quality, volume control implementation, and buffer management directly impact sonic performance. DSAS's optimized Linux environment ensures Audirvāna operates without OS-level interference.

Configuration Resources

For detailed guidance on audio settings and playback optimization:

- **Help center:** help.audirvana.com
- **Direct support:** support@audirvana.com

Métronome's Optimization

DSAS provides the hardware foundation (real-time Linux kernel, isolated USB audio, clean power supplies), while Audirvāna handles the audio processing layer. This division ensures both system-level and software-level excellence.

USB AUDIO OUTPUT

DSAS delivers bit-perfect audio up to **DSD512/PCM 384kHz** through an enhanced USB architecture featuring **ADuM4165 isolator/reclocker** technology. This provides galvanic isolation and clock regeneration to eliminate ground loops, reduce jitter, and ensure pristine signal integrity to any connected DAC.

Compatibility & Technical Foundation

Built on **ALSA (Advanced Linux Sound Architecture)** drivers, DSAS supports USB Audio Class 2.0 compliant DACs from leading manufacturers. While broad compatibility is ensured, **100% universal support cannot be guaranteed** due to proprietary USB implementations by some manufacturers.

Supported Formats & Connectivity

Audio Formats

- **PCM:** Up to 384kHz/32-bit
- **DSD:** Native DSD64, DSD128, DSD256, DSD512 (DAC-dependent)
- **DoP (DSD over PCM):** Full support for DACs without native DSD

Physical Ports:

- Vertical USB-A 2.0 (rear panel)
- Use high-quality USB cables ≤2m for optimal signal integrity

UPnP/DLNA NETWORK OUTPUT

DSAS can stream audio wirelessly to any **UPnP/DLNA-compatible network renderer** via Audirvāna Studio.

Operation:

- Audirvāna detects compatible devices on your network
- Select target renderer in Audirvāna Remote output menu
- Control playback entirely through Audirvāna Remote

Format Support: Audio formats depend on renderer capabilities. If incompatible, Audirvāna automatically transcodes to supported format (configurable in app settings).

DSP Processing: All Audirvāna audio processing (upsampling, EQ, volume) applies before streaming to renderer.

Compatibility:

- **Métronome equipment:** Full compatibility certified
- **Third-party:** Most UPnP/DLNA renderers

Network Requirements: Ethernet recommended for high-resolution streaming. Ensure DSAS and renderer on same local network.

UPnP VS. USB OUTPUT

While USB output via DSAS's isolated/reclocked architecture offers the ultimate signal purity for direct DAC connection, UPnP streaming provides excellent sound quality with added flexibility. Audirvāna's optimized streaming engine ensures low-latency transmission with minimal network jitter, preserving sonic integrity across the network layer.

Key Differences:

- **USB:** Maximum signal purity, galvanic isolation, direct DAC control — optimal for dedicated listening setups
- **UPnP:** Wireless convenience, multi-room capability, integration with existing network players — quality depends on renderer implementation and network stability

Both benefit from Audirvāna's memory playback, DSP processing, and optimized audio pipeline. Choose USB for ultimate performance, UPnP for flexibility without significant sonic compromise on quality network infrastructure.

DIGITAL OUTPUT ARCHITECTURE

DSAS is designed around **USB-only digital audio output**, deliberately excluding SPDIF (coaxial/optical) and I2S interfaces.

Design Philosophy

USB supports high bandwidth (DSD512/PCM 768kHz vs. SPDIF's 192kHz limit), enables bi-directional DAC communication, and benefits from mature galvanic isolation technology.

By focusing engineering resources on **optimized USB implementation** (isolation, reclocking, Linux ALSA driver optimization), DSAS delivers superior digital output quality without the compromises of multi-interface designs.

For legacy equipment requiring SPDIF, high-quality **USB-to-SPDIF converters** maintain signal integrity while preserving DSAS's advantages.

DIGITAL AUDIO QUALITY- TECHNICAL REALITY

Digital audio transfer and playback quality is measurably affected by implementation. The oversimplified "bits are bits" argument overlooks critical factors.

Real-world variables:

- Error correction limitations (unrecoverable read errors = interpolation artifacts)
- Jitter and timing accuracy (affects D/A conversion precision)
- Power supply noise (USB drives, network switches, routers)
- Electromagnetic interference (cable quality, grounding, isolation)

DSAS architecture addresses these factors:

- Linear power supplies (clean 5V/12V rails)
- Isolated network interfaces (reduced EMI)
- Optimized Linux kernel (real-time audio priority)
- Quality storage controllers (NVMe SSDs)
- Audirvāna Studio integration (bit-perfect playback, advanced audio engine)

Conclusion: Audiophile-grade network components, quality cables, and proper file transfer methodology demonstrably impact sonic performance. DSAS is engineered to minimize these variables at the system level, while Audirvāna's software ensures optimal audio rendering from storage to DAC.

6- SYSTEM & MAINTENANCE

FRONT TOUCH CONTROL

Location & Function

The capacitive touch sensor is integrated into the front Plexiglas panel, **at the Audirvāna logo level**.

Short Press (< 2 seconds):

When device is ON:

- Initiates standby mode
- **Normal timing:** ~5-10 seconds to enter standby
- **Extended timing:** Up to 90 seconds if system processes are active (database sync, ongoing transfers, etc.)
- Front LED turns off when standby is complete

When device is in STANDBY:

- Wakes device from standby
- System boots and reconnects to network
- Front LED activates (blinking then solid when connected)

Long Press (> 5 seconds):

When device is ON:

- **Forces immediate standby** (bypass active processes)
- Use only if normal standby fails to respond
- Similar to computer "force shutdown" behavior

⚠ **Caution:** Forced standby interrupts running operations. Use only when necessary.

Behavior Notes:

The touch control functions similarly to a computer power button:

- **Short press:** Normal shutdown/wake sequence
- **Long press:** Emergency forced shutdown

LED feedback always indicates actual system state (not touch detection)—wait for LED change to confirm action completion.

WEB INTERFACE (System Configuration)

Access

Open any web browser and enter: **dsas.local**

Requirements:

- DSAS and your device must be on the same local network
- Works from computer, tablet, or smartphone

The web interface is organized into **4 main sections.**

Wifi Configuration

WiFi Setup:

- View available WiFi networks
- Configure WiFi credentials
- Monitor connection status

See WiFi Connection section for detailed WiFi configuration procedures.

Storage Management

Disk Space Overview:

- **Internal SSD slots (M.2):** View capacity and available space for each installed drive
- **External USB drives:** Monitor connected USB storage status
- **Real-time updates:** Capacity usage displayed in GB/TB with percentage

Use case: Monitor available space before large music library transfers.

Audirvāna Status and Configuration

Service Status & Updates:

- **Current status:** Service running/stopped indicator
- **Installed version:** Current Audirvāna Studio version
- **Available updates:** Automatic detection of new versions
- **Update execution:** Direct firmware update from web interface

⚠ **Recommended update method:** Use **Audirvāna Remote app** for automatic update proposals (simpler and more reliable).

Advanced Tools:

- **Service logs:** View Audirvāna execution logs (troubleshooting/debugging)
- **Reset Audirvāna settings:**
  - Disconnects current Audirvāna account
  - Removes all local library paths
  - Erases user configuration parameters
  - ⚠ **Use with caution:** Cannot be undone

System Settings

Device Information:

- **Firmware version:** Current DSAS system firmware
- **Serial number:** Unique device identifier (required for support)

Debug Tools:

- **Download system logs:** Export complete system logs for technical support
- **Use case:** Provide logs to Métronome support team when troubleshooting complex issues

FIRMWARE UPDATES & SD CARD ADAPTER

System Architecture:

DSAS's Linux system firmware resides on a dedicated **32GB microSD card** internally mounted in the CM4 module. This card contains the read-only operating system and boot configuration.

Included Accessory

The **microSD-to-USB adapter** included with DSAS is specifically for **system firmware reprogramming** in rare circumstances.

Normal Update Process

Most updates are **Audirvāna software updates**, delivered automatically over the network through the DSAS web interface. These occur regularly as Audirvāna releases new features and optimizations—no manual intervention required.

Firmware Reprogramming (Rare)

The Linux system firmware itself is designed for long-term stability and rarely requires updates. Firmware reprogramming may be necessary only for:

- Critical hardware compatibility fixes
- Major system architecture updates
- Specific troubleshooting scenarios (support-directed)

When Required

If firmware reprogramming becomes necessary, Métronome support will provide:

1. Updated firmware image file (.img)
2. Step-by-step flashing procedure
3. Direct technical assistance

7- AUDIRVĀNA LICENSE MANAGEMENT

Prerequisites: DSAS and your mobile device must be on the same network.

SCENARIO 1: Creating a New Audirvāna Account

1. **Launch Audirvāna Remote app** and tap on DSAS
2. **Enter your email** to create account
3. **Activate 3-year subscription:**
    - Answer **"Yes"** → Immediate activation of included 3-year license
    - Answer **"Later"** → Start 30-day free trial (activate license later)
4. **Check your email** for temporary password from Audirvāna
5. **Click "Activate my account"** in email
6. **Return to Remote app** and enter temporary password
7. **Setup complete** → Begin using DSAS

SCENARIO 2: Using an Existing Audirvāna Account

1. **Launch Audirvāna Remote app** and tap on DSAS
2. **Enter your account email**
3. **Activate 3-year subscription:**
    - Answer **"Yes"** → Link included license to existing account
    - Answer **"Later"** → Use current subscription status (if active)
4. **Enter your password**
5. **Setup complete** → Begin using DSAS

Note: If you have no active subscription, you'll be prompted to subscribe at **my.audirvana.com**

To reaccess activation option after selecting "Later":

- Open Audirvāna Remote → **Settings** → **My Account** → **Log out**
- Reconnect following steps above

Subscription Details

Included License:

- **Duration:** 3 years from first device connection
- **Expiration date:** Displayed in Remote app → Settings → My Account
- **Renewal reminder:** Notification sent few days before expiration

After 3-Year Period:

- **Local playback:** Full access to music stored on DSAS
- **Connected services disabled:**
    - Streaming services (Qobuz, Tidal, etc.)
    - Radio stations
    - Podcasts
    - Last.fm integration

To renew subscription: Visit my.audirvana.com

License Transfer Policy

Question: Is the Audirvāna license transferable if the unit is resold?

Answer: Yes, the 3-year Audirvāna Studio license **can be transferred** with the physical device, but requires formal notification to Audirvāna.

Transfer Procedure:

1. **Seller responsibility:** Contact Audirvāna support **before finalizing sale**
2. **Contact method:** Email support@audirvana.com
3. **Required information:**
    - DSAS serial number (found in web interface or physical label)
    - Transfer request details

Important Notes:

- License is hardware-embedded but administratively linked to user account
- Transfer ensures new owner receives full functionality and remaining subscription period
- New owner must create/link their own Audirvāna account post-transfer

Best Practice for Resale:

1. Complete license transfer notification before shipping unit
2. Provide new owner with transfer confirmation
3. Include DSAS serial number in sale documentation

Support Contact: support@audirvana.com

8- TROUBLESHOOTING

This section addresses common issues you may encounter with your DSAS. Most problems can be resolved quickly by following these procedures.

For additional information and technical assistance:

- Métronome support: support@metronome-technologie.fr
- Web: metronome.audio/digital-sharing-dsas

DSAS Not Appearing in Network

- **Symptom:** Cannot find DSAS in network devices or Audirvana Studio app
- **Solution:**
  - Check Ethernet cable connection (LED should be lit on port)
  - For WiFi: Verify DSAS WiFi network is active and connected
  - Wait 2-3 minutes after power-on for system boot completion
  - Try network refresh in your device settings
- **Cause:** Incomplete boot sequence or network configuration pending
- **Expected behavior:** DSAS appears in network after full boot

→ See section NETWORK CONNECTION

Music Library Not Detected

- **Symptom:** Audirvana Studio doesn't see music files on connected storage
- **Solution:**
  - Verify USB drive is properly connected (check LED activity)
  - For M.2 SSD: Ensure drive is fully seated its slot
  - Access web interface at http://dsas.local to verify storage mount status
  - Perform library rescan in Audirvana Studio settings
- **Cause:** Storage not mounted or incorrect file system format
- **Expected formats:** exFAT, NTFS, ext4 for USB drives; NVMe for M.2 SSD

→ See section 2- STORAGE & DATA MANAGEMENT

Web Interface Not Accessible

- **Symptom:** Cannot reach http://dsas.local or http://192.168.x.x
- **Solution:**
  - Verify device and DSAS are on same network
  - Try direct IP address instead of dsas.local hostname
  - Clear browser cache and retry
  - For captive portal: Connect to "DSAS-XXXX" WiFi network first
- **Cause:** DNS resolution issue or network isolation
- **Expected access:** Web interface should load within 5 seconds on local network

→ See section WEB INTERFACE (System Configuration)

WiFi Connection Unstable

- **Symptom:** Frequent disconnections or slow streaming
- **Solution:**
    - Check good the connection of the WiFi antenna on DSAS
    - Check WiFi signal strength
    - Move DSAS closer to WiFi router or use Ethernet
    - Verify router channel not congested (2.4GHz vs 5GHz)
    - Update router firmware if available
- **Cause:** Antenna not connected, interference, weak signal, or router configuration
- **Recommendation:** Ethernet connection preferred for best audio stability

→ See section NETWORK CONNECTION

Audirvana Studio Connection Lost

- **Symptom:** Playback stops, "Device not found" message
- **Solution:**
    - Check network stability (WiFi signal strength or Ethernet connection)
    - Restart Audirvana Studio application
    - Reboot DSAS if persistent
    - Verify no IP address conflict on network
- **Cause:** Network interruption or service crash
- **Expected recovery:** Connection restores within 10-15 seconds after network stabilization

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No Audio Output from DAC

- **Symptom:** DAC connected but no sound output
- **Solution:**
    - Verify DAC USB cable is connected to USB-A 2.0 Audio port (vertical)
    - Check DAC is powered on and selected as output in Audirvana
    - Try different USB cable (ensure USB 2.0 compatible minimum)
    - Test USB output on another device to confirm functionality
- **Cause:** USB enumeration issue or DAC compatibility
- **Supported:** USB Audio Class 1.0/2.0 compliant DACs

→ See section USB AUDIO OUTPUT

System Won't Power Off Properly

- **Symptom:** DSAS continues running after shutdown command
- **Solution:**
    - Wait 2-3 minutes for complete shutdown (LED will turn off)
    - If unresponsive: Press and hold power button for 5 seconds
    - Last resort: Disconnect power supply (wait 10 seconds before reconnecting)
- **Cause:** Background processes completing or system hang
- **Warning:** Forced power-off may require filesystem check on next boot

→ See section FRONT TOUCH CONTROL

Slow USB-C Transfer Speeds

- **Symptom:** File transfers via USB-C port slower than USB-A
- **Solution:** Physically flip/reverse the USB-C cable connector
- **Cause:** USB-C specification allows asymmetric pin usage; some implementations perform better in one orientation
- **Expected speeds:** ~100 MB/s sustained transfer

→ See section EXTERNAL STORAGE SPECIFICATIONS