WHERE COMMUNICATION MEETS AUTOMATION

MiCONNECT
IP AUDIO | BELL | PA | VISUAL

INDEX

WHAT YOUR LOOKNG AT!

Welcome to MiConnect

Your All-in-One School and Government Notification Powerhouse

Congratulations on stepping into the future of integrated communication with MiConnect! This isn't just another run-of-the-mill system—it's your personal command center for signs, audio, and much more, all crafted with the dedication and passion of a team that knows what it's like to build from the ground up.

What You're Looking At

At the top, you've got your essential tools—think of them as your trusty Swiss Army knife of management. From controlling digital signs and fine-tuning audio, to orchestrating sequences and managing network configurations, it's all here. Hover over each icon to dive into the details, and you'll find yourself wielding the full power of MiConnect's capabilities.

Beyond the Basics

Below that, you'll see our line-up of expansion modules. These are the special forces of MiConnect—add-ons that transform your system from a simple audio network into a comprehensive hub integrating everything from CCTV and security systems to vape detectors. And hey, if you ever think, "I wish this could do more," just glance down and see what's possible—chances are, it's already in your reach.

What You're Looking At

1 Audio Volume Control

The **Master Volume Console** allows you to control the overall audio output level for your MiConnect Gateway.

- The circular **Master dial** shows your current volume setting, with a default reference at 70%.
- Below that, the exact value is displayed numerically in red (e.g., **76%**).
- Real-time **Left and Right channel meters** give visual feedback on output signal activity, helping you verify both channels are active and balanced.
- Once adjusted, click **"Set Volume"** to save your new setting.
- At the bottom, the console displays the **last adjusted date and time**, so you know when it was last changed.
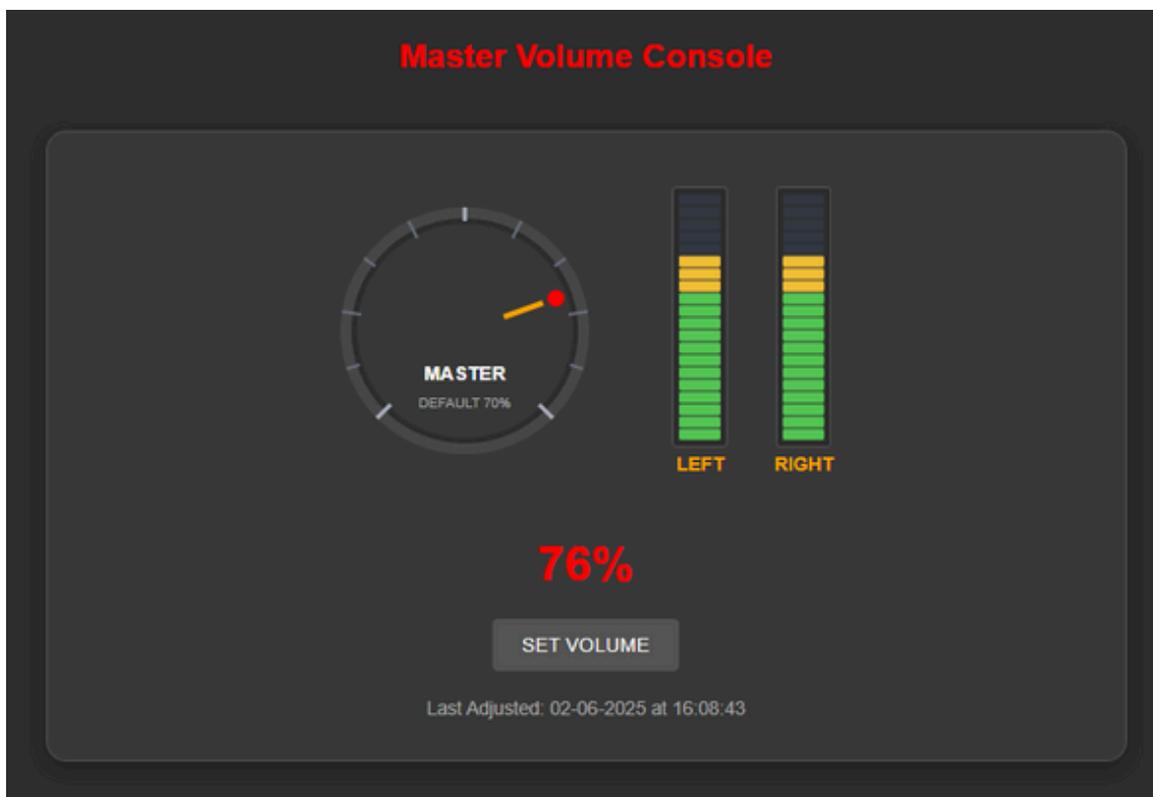
This setting is saved **per gateway** and affects all audio played from that unit — including announcements, music, and emergency tones. Ideal operating range is usually between **50–80%**, depending on speaker type and environment.

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2 SIGNS Menu

The SIGNS Menu is your window into the programming and management of all your IP signs. Each sign comes with 30 programmable slots, each assigned to a specific function—like "Evacuation," "Lockdown," or "All Clear." You'll see both the full name and a universal abbreviation (like "EVAC" or "WET") that's consistent across the entire MiConnect system.

While the MiSolutions team or approved contractors handle the programming and customization of these sign slots, you can easily view what's assigned to each slot. Whether it's a standard message or something unique—like an arrow pointing the way—our team can program it in, ensuring your signs display exactly what you need, when you need it.

Our IP signs are seven-color P5 LED displays—simple, clear, and effective. If you need something special for a specific sign or location, just reach out, and we'll handle the rest, making sure your entire site stays in sync and ready to respond at a moment's notice.
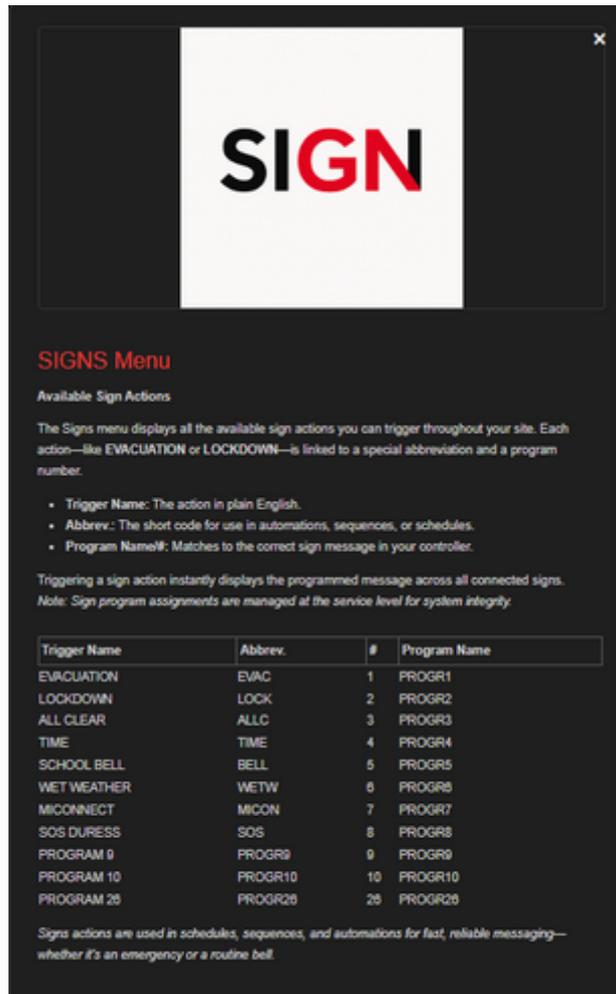
SIGN

SIGNS Menu

Available Sign Actions

The Signs menu displays all the available sign actions you can trigger throughout your site. Each action—like EVACUATION or LOCKDOWN—is linked to a special abbreviation and a program number.

- **Trigger Name:** The action in plain English.
- **Abbrev.:** The short code for use in automations, sequences, or schedules.
- **Program Name/#:** Matches to the correct sign message in your controller.

Triggering a sign action instantly displays the programmed message across all connected signs.
Note: Sign program assignments are managed at the service level for system integrity.

| Trigger Name	Abbrev.	#	Program Name
EVACUATION	EVAC	1	PROGR1
LOCKDOWN	LOCK	2	PROGR2
ALL CLEAR	ALLC	3	PROGR3
TIME	TIME	4	PROGR4
SCHOOL BELL	BELL	5	PROGR5
WET WEATHER	WETW	6	PROGR6
MICONNECT	MICON	7	PROGR7
SOS DURESS	SOS	8	PROGR8
PROGRAM 9	PROGR9	9	PROGR9
PROGRAM 10	PROGR10	10	PROGR10
PROGRAM 26	PROGR26	26	PROGR26

Signs actions are used in schedules, sequences, and automations for fast, reliable messaging—whether it's an emergency or a routine bell.

3 AUDIO Menu

The AUDIO Menu gives you a straightforward view of all the music folders available on your MiConnect system. It's essentially a directory of all the non-emergency audio content—like music tracks—that have been uploaded to the system. You'll see a table listing each folder, along with the files inside, including the track name, file type (MP3 or WAV), file size, last modified date, and the API endpoint to play each track directly.

This menu doesn't show the essential or emergency event folders—like Evacuation, Lockdown, or Vape Detectors—to ensure they aren't accidentally used for other purposes. Those remain behind the scenes, accessible only at the service level.

By listing the API endpoints for each music track, we empower users to trigger these files directly from the console. This ensures the best audio quality since the tracks play directly from each gateway rather than streaming and losing quality through compression. This feature is all about giving you the flexibility to deliver crisp, high-quality audio across your entire campus.

Audio File Library
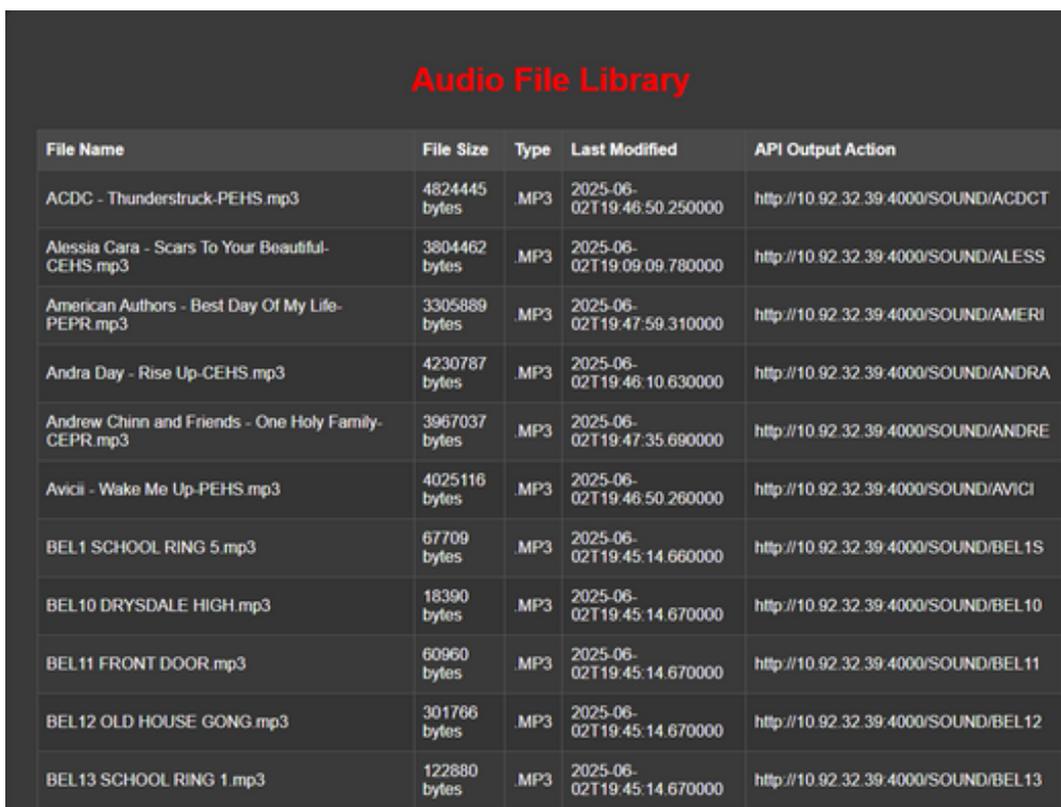
File Name	File Size	Type	Last Modified	API Output Action
ACDC - Thunderstruck-PEHS.mp3	4824445 bytes	.MP3	2025-06-02T19:46:50.250000	http://10.92.32.39:4000/SOUND/ACDCT
Alessia Cara - Scars To Your Beautiful-CEHS.mp3	3804462 bytes	.MP3	2025-06-02T19:09:09.780000	http://10.92.32.39:4000/SOUND/ALESS
American Authors - Best Day Of My Life-PEPR.mp3	3305889 bytes	.MP3	2025-06-02T19:47:59.310000	http://10.92.32.39:4000/SOUND/AMERI
Andra Day - Rise Up-CEHS.mp3	4230787 bytes	.MP3	2025-06-02T19:46:10.630000	http://10.92.32.39:4000/SOUND/ANDRA
Andrew Chinn and Friends - One Holy Family-CEPR.mp3	3967037 bytes	.MP3	2025-06-02T19:47:35.690000	http://10.92.32.39:4000/SOUND/ANDRE
Avicii - Wake Me Up-PEHS.mp3	4025116 bytes	.MP3	2025-06-02T19:46:50.260000	http://10.92.32.39:4000/SOUND/AVICI
BEL1 SCHOOL RING 5.mp3	67709 bytes	.MP3	2025-06-02T19:45:14.660000	http://10.92.32.39:4000/SOUND/BEL1S
BEL10 DRYSDALE HIGH.mp3	18390 bytes	.MP3	2025-06-02T19:45:14.670000	http://10.92.32.39:4000/SOUND/BEL10
BEL11 FRONT DOOR.mp3	60960 bytes	.MP3	2025-06-02T19:45:14.670000	http://10.92.32.39:4000/SOUND/BEL11
BEL12 OLD HOUSE GONG.mp3	301766 bytes	.MP3	2025-06-02T19:45:14.670000	http://10.92.32.39:4000/SOUND/BEL12
BEL13 SCHOOL RING 1.mp3	122880 bytes	.MP3	2025-06-02T19:45:14.670000	http://10.92.32.39:4000/SOUND/BEL13

4 Audio Upload

We're putting the power of audio management right at your fingertips with the **new Audio Upload feature.** This menu allows you to easily upload individual tracks or bulk music files into the general music folder. Once uploaded, these tracks will seamlessly appear in your AUDIO Menu list, ready to be played whenever you need them.

Uploading is as simple as selecting your files and hitting **"Upload."** From there, you can manage your tracks directly: play, stop, download, or delete them individually, giving you full control over your audio library. This feature ensures that you can refresh and customize your audio content anytime, keeping your campus vibe just right.
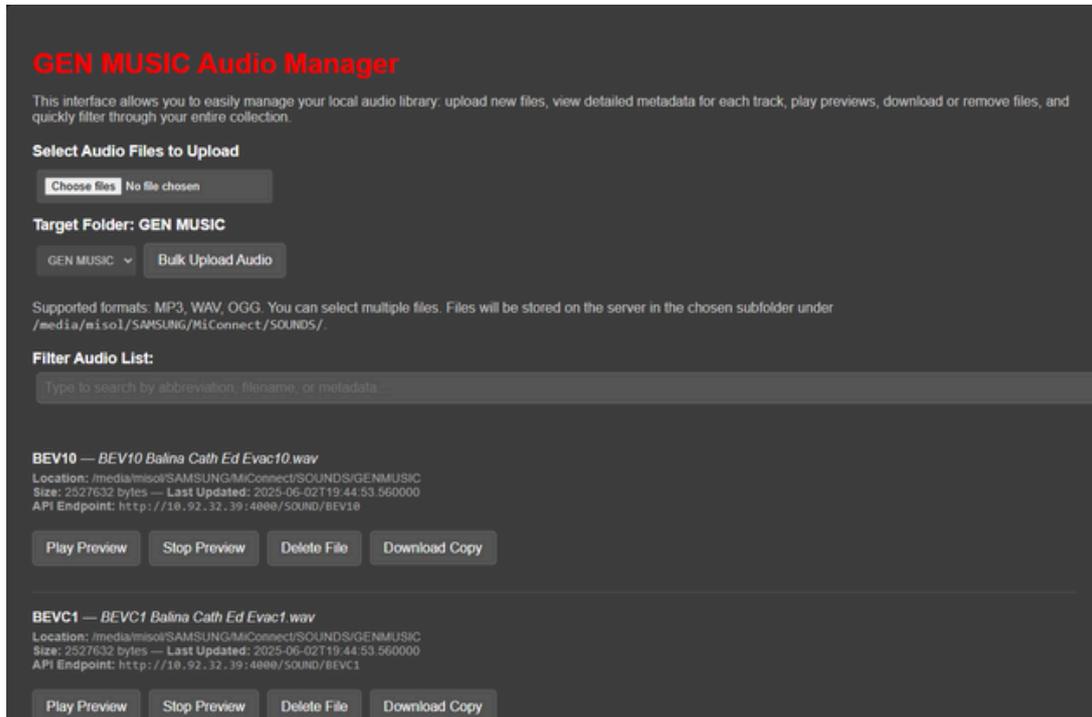
5 GROUPS & DEVICES Menu

The **Groups & Devices Menu** provides a filtered, read-only view of all registered MiConnect devices in your network. It's designed for visibility and quick reference, allowing users to verify which devices are active, what they're called, and how they're grouped.

Filter Controls

At the top of the panel, you'll find dropdowns for:

- **Group** — View devices assigned to a specific location or site zone (e.g. "ALL", "ADMIN", "BLOCK_C").
- **Brand** — Filter by device manufacturer (e.g. "MiConnect").
- **Device Type** — Narrow the list to gateways, relays, IP speakers, etc.

Device Table Details

Each row shows:

- **Group:** The assigned group the device belongs to.
- **Device Name:** Friendly identifier for field/location recognition.
- **Device Type:** Defines the hardware category (e.g., GATEWAY).
- **Serial:** Unique device serial, used for licensing and validation.
- **Model:** Hardware class (e.g., MIC_GATE_PASSIVE).
- **Version:** Installed software/firmware version.
- **Brand:** Usually MiConnect unless OEM integrations are present.

Note: This table is read-only for end users. **All edits, additions, or removals are handled through the Service Menu by a MiSolutions technician or authorized contractor.**

This menu is especially useful for troubleshooting, confirming deployments, or preparing a support request. It ensures users can identify what's online and where each unit fits into the overall system architecture — without risking accidental changes

Device List

Group: [All v]   Brand: [All v]   Device Type: [All v]

Group	Device Name	Device Type	Serial	Model	Version	Brand
ALL	GATEWAY3_CHURCH	GATEWAY	ba27fa4bf941de84	MIC_GATE_PASSIVE	1.0	MiConnect

6 CONSOLE Menu

Think of the **CONSOLE Menu** as your quick-reference dashboard, giving you a concise overview of all the active modules and their corresponding API endpoint names. Whether it's signs, audio, CCTV, security systems, or messaging, the CONSOLE gives you a clear snapshot of what's set up and how it's named.

Each entry in the CONSOLE corresponds to a shorthand API endpoint name, reflecting the actions and configurations established on the backend. This makes it easy for you to cross-reference and understand exactly what each endpoint does. When you're setting up sequences in the SEQUENCER Menu, these API endpoint names become your building blocks, allowing you to pull in the right commands for any sequence of actions.

THE CONSOLE

| Local Audio Config |
| Sign Config |
| Multicast Audio Config |
| CCTV Inbound Config |
| I/O Config |
| Relay Config |
| Security Inbound Config |
| Siren Config |
| Strobe Config |
| Vape Detector Config |
| Webhook Config |

In short, the CONSOLE Menu is your window into what's configured in the system, letting you see at a glance what each module's API endpoint name is, so you can easily integrate and trigger the right actions in your sequences.

THE CONSOLE

Local Audio Config

Local Audio Config

ID	Pri	Sec	Group	Device	Mode	Enabled	File 1	File 2	Volume	Channel	Loop	Dur	Next	API EP
20	3000	0001	ALL	GATEWAY3_CHURCH	MULTICAST	0	EVA8 TONE PULSE 3.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_EVA8T_L
21	3000	0002	ALL	GATEWAY3_CHURCH	MULTICAST	0	CLE11 SPOKEN AUDIO.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_CLE11_L*D360
22	3000	0003	ALL	GATEWAY3_CHURCH	MULTICAST	0	BEVC1 Balina Cath Ed Evac1.wav		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_BEVC1_L*D30
23	3000	0004	ALL	GATEWAY3_CHURCH	MULTICAST	0	LOC7-PULSING TONE 1.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH__L
24	3000	0005	ALL	GATEWAY3_CHURCH	MULTICAST	0	WEATHER EAS AU.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_WEATH_L

Sign Config

Sign Config

ID	Group	Type	Device	Mode	CT1	Next	CT2	API EP	Dur	En

Multicast Audio Config

Multicast Audio Config

ID	Name	IP	Port	Ch	Vol	Mode	Type	Group	DevName	DevIP	DevPort	En	API EP
7	ALL_SPEAKERS	239.239.14.50	48050	STEREO	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATWAY3_CHURCH			1	
8	LEFT_SPEAKERS	239.239.14.50	48051	LEFT	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATEWAY3_CHURCH			1	
9	RIGHT_SPEAKERS	239.239.14.50	48052	RIGHT	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATEWAY3_CHURCH			1	
10	CHURCH_ALL_SPEAKERS	239.239.14.50	48053	STEREO	0.7	MULTICAST	AUDIO	CHURCH_ALL	GATEWAY3_CHURCH			1	

7 SEQUENCER Menu

The SEQUENCER Menu is where the real magic happens. With unlimited slots and up to 10 commands per slot, you can orchestrate complex sequences that combine multiple modules and actions. Since each active module—whether it's signs, audio, or something else—is enabled via a product key, the **_SEQUENCER_** lets you load and chain these actions together using their API endpoint names.

When you trigger a sequence (like *http://your-gateway-address/seq/1*), it executes all the assigned commands in rapid succession, down to the millisecond. This means you can coordinate multiple

actions—like playing an audio file, displaying a message on signs, and sending out SMS alerts—all with a single sequence trigger. The result is a powerful, streamlined way to manage and automate complex event chains across your entire system.
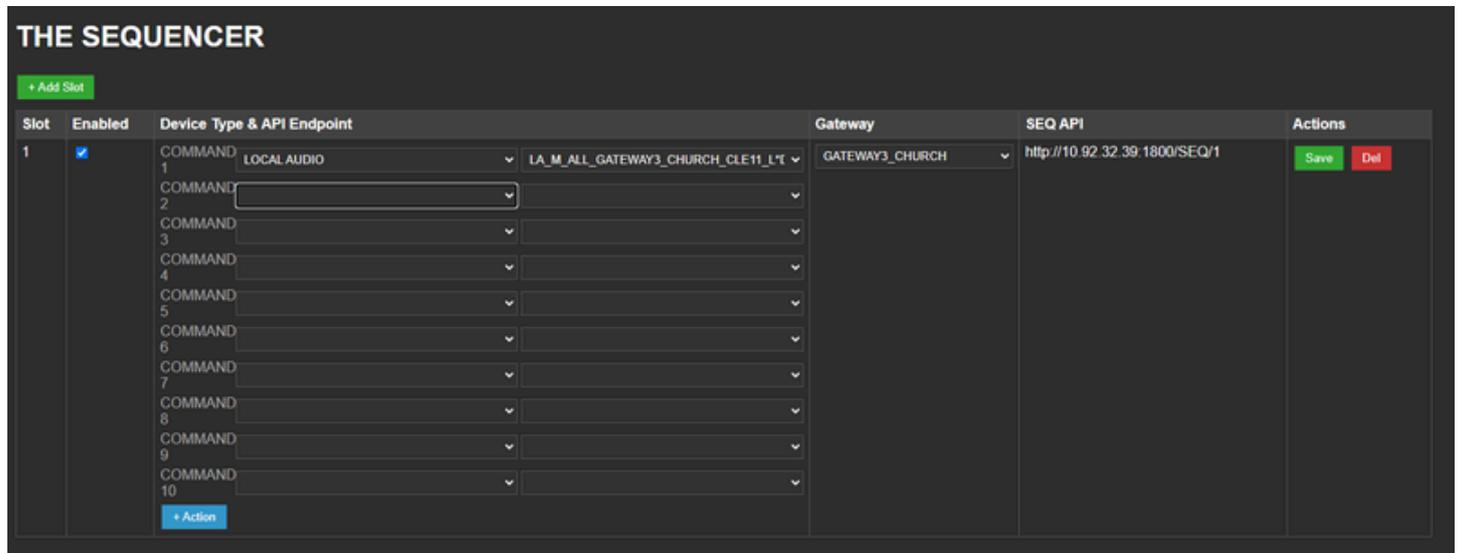

8 TIME Menu

The TIME Menu is your go-to spot for setting and synchronizing the system's date and time. First, you can select your time zone from a dropdown menu that lists all regions according to their UTC offsets.

Below that, you can manually set the date and time by typing them in or by clicking the calendar and clock icons to sync them with your computer's date and time. There's also a handy checkbox for enabling daylight savings adjustments as needed.

If you want your system to sync with an NTP (Network Time Protocol) server for precise, automated timekeeping, just reach out to MiSolutions Group or your service contractor, and they'll get it all set up on the backend.
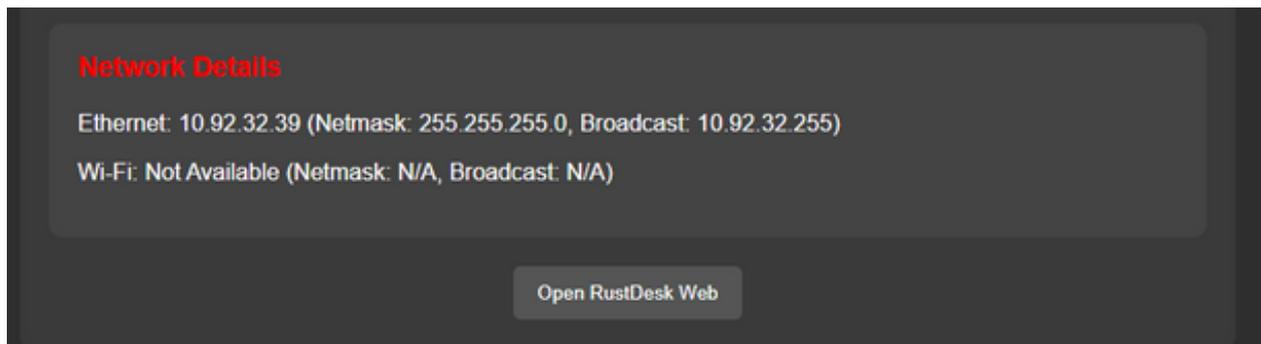
Once everything is set, just hit **"Save"** to update your system's time settings.

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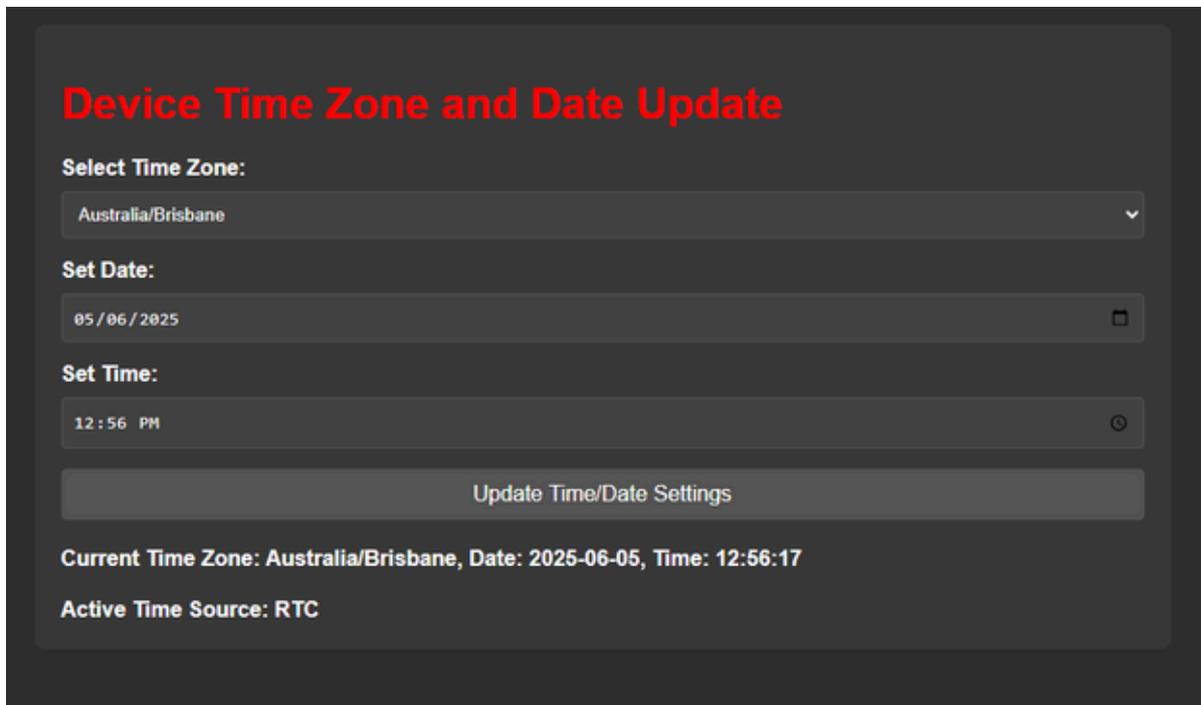
9 NETWORK CONFIGURATION Menu

The NETWORK CONFIGURATION Menu handles your device's connectivity settings. The first section covers Ethernet settings. There's a checkbox for DHCP; if it's unchecked, you're using a static IP configuration. Since these devices need a consistent endpoint for reliable communication and event triggering, setting a static IP is highly advisable. This prevents issues if the network switch resets and assigns a different IP, which could disrupt critical events like evacuations or lockdowns. If you're unsure how to configure it, contact your IT support team for assistance.

The second section covers WiFi settings (note that not all devices have WiFi capability). If your device supports WiFi, you can select an SSID from the dropdown list. This feature is primarily for setting up a hotspot connection (like from your mobile phone) to enable remote support and assistance. After connecting to the hotspot, you can click the "Connect to RustDesk" button, which opens a new browser window with instructions and a one-time connection ID. This allows remote support to connect and assist you. Once done, you can disconnect the hotspot, and the device will revert to Ethernet for connectivity.

As always, click **"Save"** to apply any changes.

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10 USER ACCESS Menu

The USER ACCESS Menu lets you manage all the user accounts for the system. Here, you can add, edit, or delete users without any limit on the number of accounts. Each user gets their own username and password, providing them access to the entire user section of the platform.

Keep in mind that there are no granular privileges—it's all or nothing. So, any user added here will have full access to the user section. It's important to manage these credentials wisely and ensure only authorized personnel have access.

11 LOGS Menu

The LOGS Menu provides a comprehensive view of all the behind-the-scenes events and errors across the MiConnect system. You can hover over different modules—like local audio, CCTV, GSM, network configuration, I/O, users, and the sequencer—to see daily log files with a 30-day rotation. These logs capture all sorts of system events and potential issues, giving you a first line of insight into what's happening under the hood.

When you click on a specific log category, the logs for that module will be listed by event and date, each with a timestamp. Some logs can be quite lengthy, but you can scroll through them and, if needed, use the print and save buttons at the bottom to save logs as a PDF.

While some logs might seem technical, they serve as a handy first line of diagnosis. If there's an issue, you might be asked to email a specific log to the support team so they can quickly diagnose and resolve the problem without needing immediate remote access.

Logs

Local Audio	CCTV Module	GSM Groups	GSM Data	Network Heartbeat
I/O Module	Main App	Multicast Listener	Network Configuration	NTP
Relay 8-CH Module	Security Module	The Sequencer	Sign Module	Siren Module
SMS Events	SMS In Module	SMS Out Module	SOS Duress Module	Strobe Module
Users	Vape Module	Webhook Module		

2025-05-26 16:39:33,429 INFO: Audio playback terminated.

2025-05-26 16:40:03,430 INFO: Playback finished

2025-05-26 16:40:03,431 INFO: Audio playback terminated.

2025-05-26 16:40:41,996 INFO: Playback finished

2025-05-26 16:40:41,996 INFO: Audio playback terminated.

2025-05-29 12:44:07,649 INFO: Playback finished

2025-05-29 12:44:07,650 INFO: Audio playback terminated.

2025-05-29 12:48:38,956 INFO: Playback finished

2025-05-29 18:27:57,657 INFO: Playback finished

2025-05-29 18:27:57,659 INFO: Audio playback terminated.
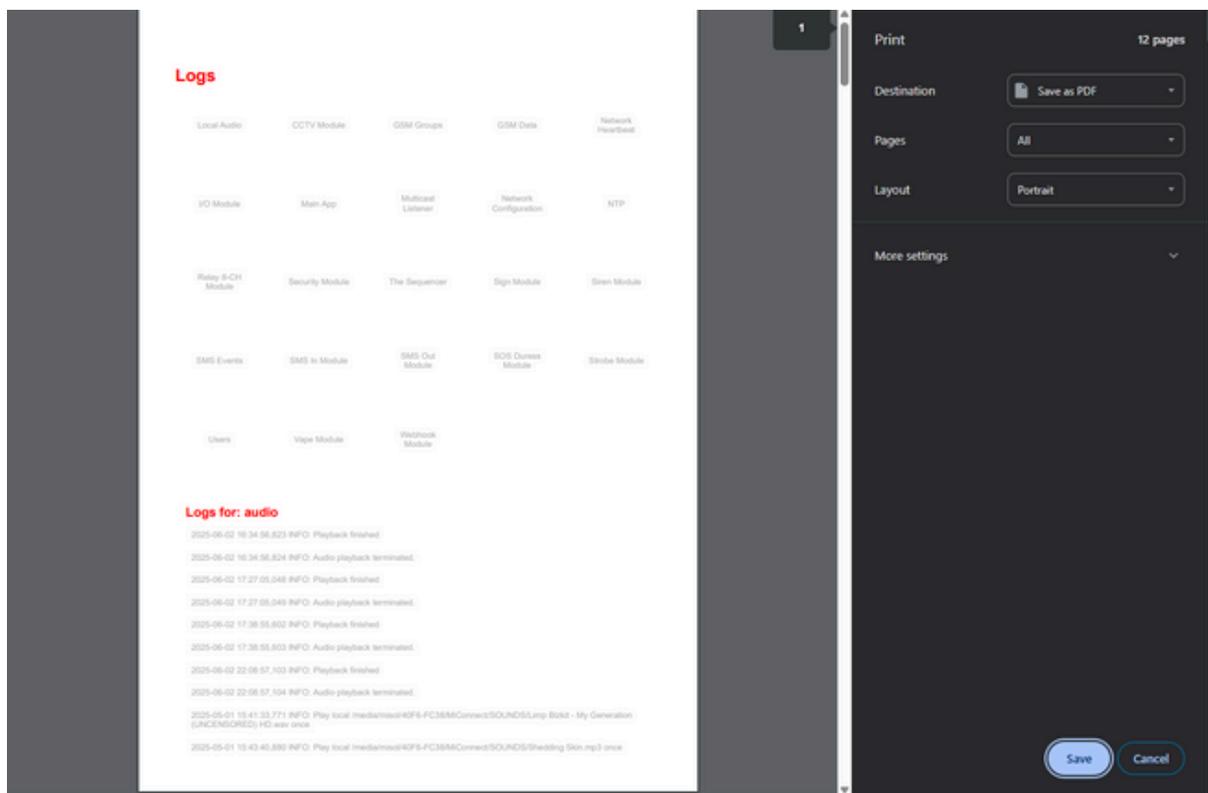
2025-05-31 17:43:02,905 INFO: Playback finished

2025-05-31 17:48:02,171 INFO: Playback finished

2025-05-31 17:48:02,171 INFO: Audio playback terminated.

2025-05-31 17:35:59,609 INFO: Playback finished

2025-05-31 17:35:59,611 INFO: Audio playback terminated.

Print / Save

12 SYSTEM UPDATE, RESTART, AND LOGOUT Menus

System Update

The System Update section allows you to upgrade your MiConnect system effortlessly. You'll see the current system version displayed (e.g., version 1.5.4), and a note specifying that only certified zip files from misol.com.au should be used for updates. These files are password-protected and can only be extracted by the system itself, ensuring security.

To update, download the latest version from the website and save it to your device. Click "Choose File," select the downloaded zip file, and then click "Upload and Verify Zip." The system will upload the file, verify its integrity, and prompt you to confirm the update. Once confirmed, the system will process the update and notify you when it's complete, at which point you'll be prompted to restart the system to finalize the update.

Restart

The Restart menu option allows you to reboot the system smoothly. Clicking it will prompt you twice for confirmation before initiating the restart process.

Logout

The Logout menu option logs you out of the system. If you forget to log out, the system automatically logs you out after 10 minutes of inactivity to ensure security.

System Update

Current Version: 1.5.4

Only Upload Certified ZIP File From misol.com.au for Update: files are password protected

Choose file | No file chosen | Upload & Verify ZIP

Confirm Update

Beyond the Basics

HOW TO INSTRUCTION GUIDE

Welcome to MiConnect

Where Communication Meets Automation

Welcome to your **Mi****Connect** Gateway. If you're reading this, you're either about to do something powerful or something questionable. Either way, we've got you covered.

This dashboard gives you instant access to every part of the MiConnect system — from playing audio and triggering signs, to managing relays, sensors, sequences, and more.

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13 Menu Navigation Guide

Each tile on this screen is a "Menu Helper Item." Click one to enter its control panel:

ICON	FUNCTION
HELPERS	Interactive menus designed to be your quick go to helper for each section of the User Interface along with expansion modules
MASTER VOLUME	Quickly adjust the over volume of each Gateway
SIGN	Trigger pre-programmed LED sign messages
AUDIO	Upload, preview, or quickly grab the music / custom upload API trier addresses.
GROUPS	See which devices are online and what group they belong to
CONSOLE	View all active system API names across modules
SEQUENCER	Build chains of commands (e.g. play siren, flash strobe, send SMS)
TIME	Set time/date and timezone for your gateway
NETWORK	Configure static IP or connect via Wi-Fi (if supported)
USER ACCESS	Add/edit/delete users who can log in to this panel
LOGS	View what happened, when, and why (for every module)
RESTART	Safely reboot the MiConnect system
LOGOUT	Ends your session automatically after 10 min, or manually here

MiConnect is Modular

Below the main menus you'll see optional software and hardware modules:

- GSM/SMS Alerts
- IP Speakers, Strobes, and Relays
- Webhook Integrations
- Vape Detectors and SOS Duress
- CCTV and Security Core

Some of these may already be licensed and active **— if they're not showing up in your menus, speak to your installer or MiSolutions support.**

What You Can't Break (Even If You Try)

- You can't delete the system or brick anything from here
- You can't see restricted or emergency sequences unless given access
- You can't trigger alerts or strobes unless a valid API or Sequence exists
- Everything is logged, so if you break something, at least we'll know who did it

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14 Interactive Helper Section

The Interactive Helper Menu in **Mi**Connect is designed to streamline user navigation and enhance the accessibility of critical system functionalities. It provides immediate access to the following key sections:

- **MASTER VOLUME:** Quickly adjust the volume of the gateway, lock it in, see when it was saved last
- **SIGN**: See what trigger names have been assigned to what programs in the digital signage, including message scheduling and display parameters.
- **AUDIO**: Control audio streams, manage playlists, and configure volume and playback modes.
- **GROUPS & DEVICES**: Organise, add, or remove device groups, and manage individual devices within the network.
- **CONSOLE**: Access system commands and perform direct interactions with the network and device configurations.
- **SEQUENCER**: Create and manage sequences of actions, enabling automated task execution across the MiConnect system.
- **TIME**: Adjust and synchronise system clocks and scheduling across networked devices.
- **NETWORK CONFIGURATION**: Manage network settings, including IP configurations and multicast groups.
- **USER ACCESS**: Define user permissions, manage authentication, and oversee user account settings.
- **LOGS**: Review system activities, monitor operations, and audit user actions.
- **RESTART**: Initiate system reboots to apply updates or troubleshoot issues.
- **LOGOUT**: Safely exit the system and terminate user sessions securely.

How to Use the Interactive Helper:

1. **Select a Menu Option**: Click on the desired module from the Interactive Helper menu.

2. **Read Through the Details:** Read through the details and apply them to each section of the menus.
3. **What If I'm Still Scratching My Head?:** Reach out to support@misol.com.au or head to https://www.misol.com.au/client-portal/ Enter MiSolClients2025 and click on the MiConnect section for the full interactive VIP portal including MiConnect AI Helper.
4. **Want to Just Call Someone?:** No Problem we have you covered there too 1300 064 765

This intuitive menu structure ensures efficient navigation, streamlined operations, and robust management of your MiConnect environment.
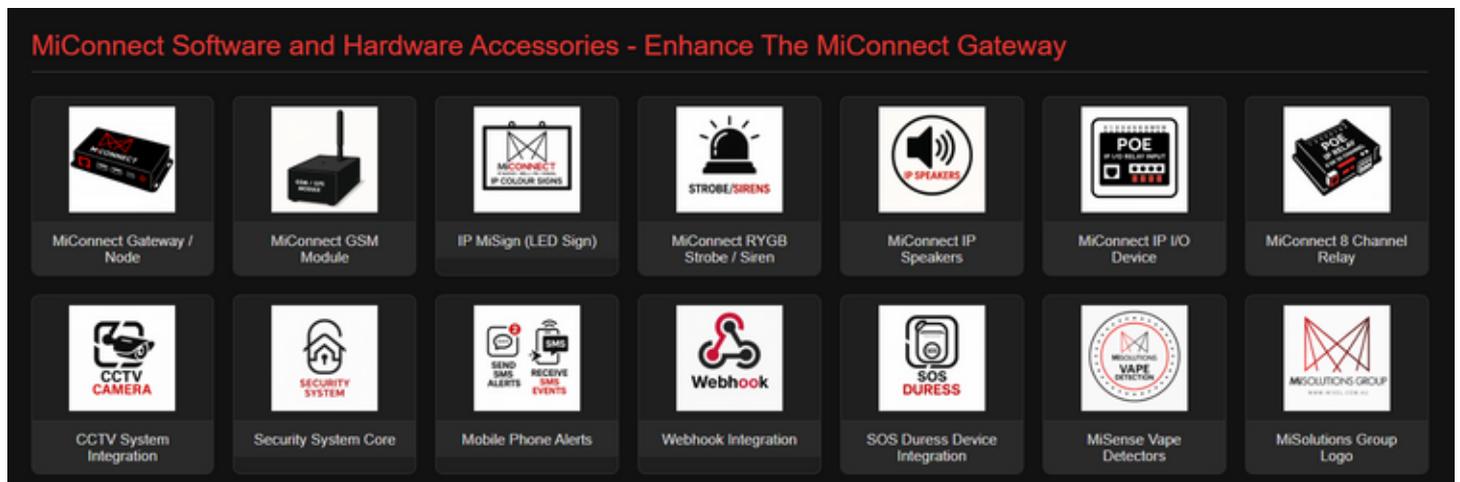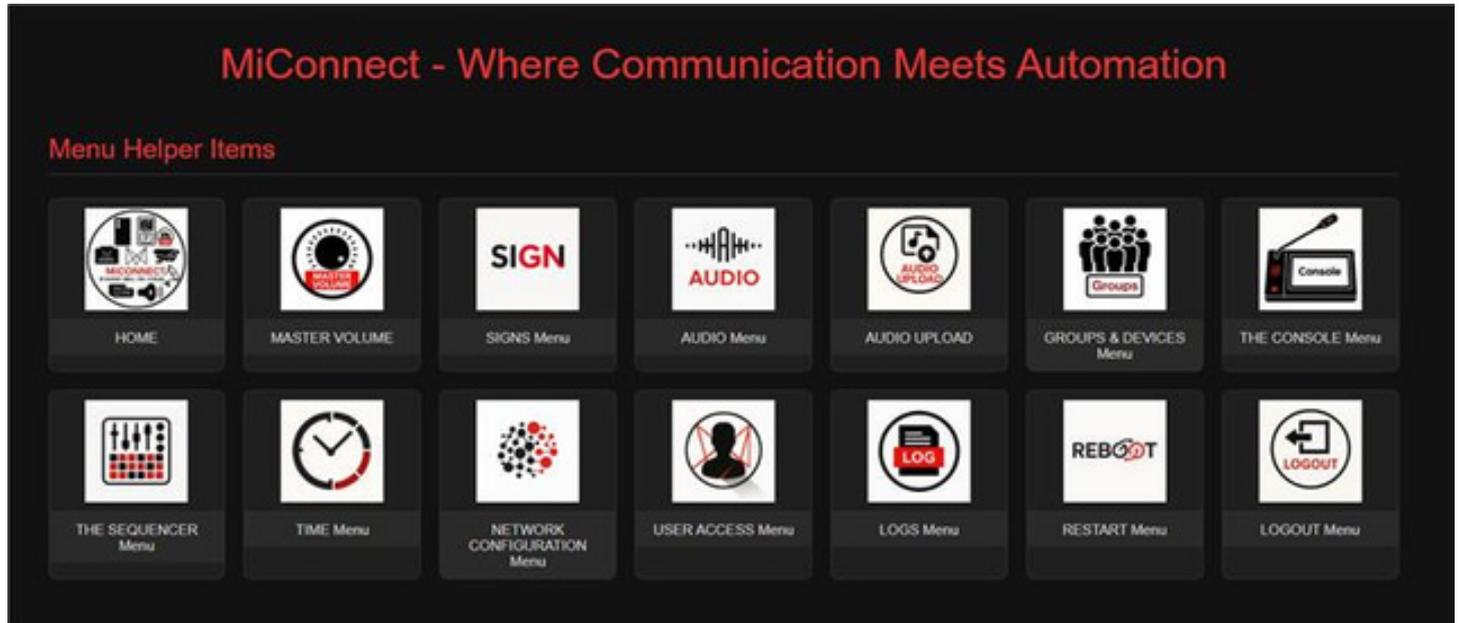
# *15 Master Volume – How to Adjust Audio Output*

The Master Volume Console allows you to change the overall audio output level of your MiConnect Gateway. This affects all announcements, music, and alert tones played through connected IP speakers.

Step-by-Step Instructions:

1. **Navigate to the Volume Menu**From the main dashboard, click on the **"Volume"** icon or menu item labelled **Master Volume Console**.
2. **Review Current Volume**You'll see a circular dial labeled **MASTER**. The current output percentage (e.g. 76%) is displayed in bold red underneath.
3. **Adjust the Volume**
   ○ Move the dial by dragging your mouse/finger to increase or decrease volume.
   ○ You'll see the numeric value update in real-time as you turn the knob.
4. **Set the Volume**Once you're happy with the level:
   ○ Click the **"SET VOLUME"** button below the dial.
   ○ A confirmation will appear, and the new volume will be applied instantly.
5. **Verify Output**
   ○ Use the real-time **Left/Right signal meters** to confirm audio activity and ensure both channels are active.
   ○ You can now play a test file from the **AUDIO Menu** if needed.
6. **Last Adjusted Time**The system will display the last time the volume was changed at the bottom for reference.

Recommended Settings:

- Standard Classroom / Office: **50–65%**
- Large Halls / Outdoor: **70–85%**
- Never exceed **95%** unless instructed by a technician.
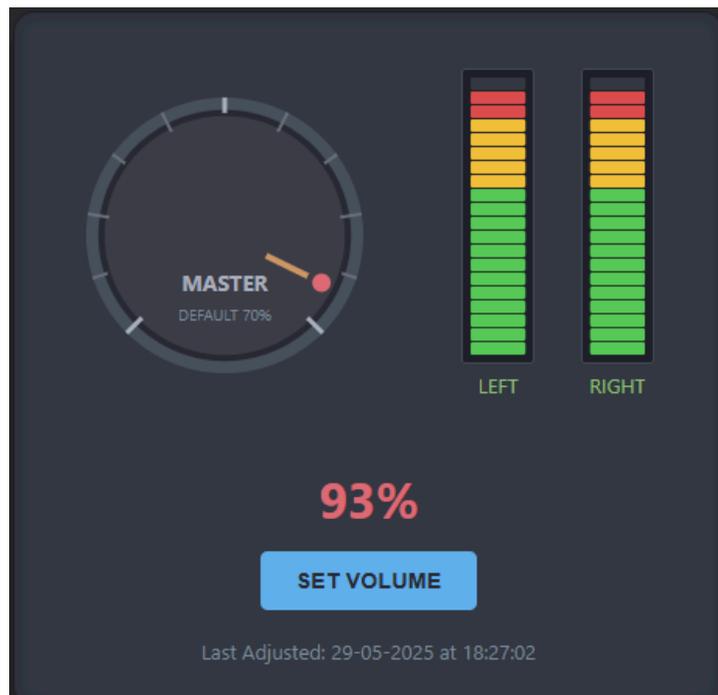
# 16 Audio Upload – How to Manage Your Music Library

The **GEN MUSIC Audio Manager** allows you to upload, preview, download, or delete music files stored on your MiConnect Gateway. These files can be used in sequences, scheduled events, or played manually.

Uploading Audio Files

1. **Go to the Audio Menu**
   ○ Navigate to the **GEN MUSIC Audio Manager** from the AUDIO Menu.
2. **Select Audio Files**
   ○ Click the **"Choose Files"** button.
   ○ Select one or more audio files from your computer (formats supported: .mp3, .wav, .ogg).
3. **Choose the Target Folder**
   ○ Confirm that **GEN MUSIC** is selected in the folder dropdown (default option).
4. **Start the Upload**
   ○ Click the **"Bulk Upload Audio"** button.
   ○ Wait for the upload to finish. Files will appear in the list below.

Finding Your Files

- Use the **Filter Audio List** bar to search by abbreviation, file name, or metadata.
- Files display automatically in the list below, sorted by filename.
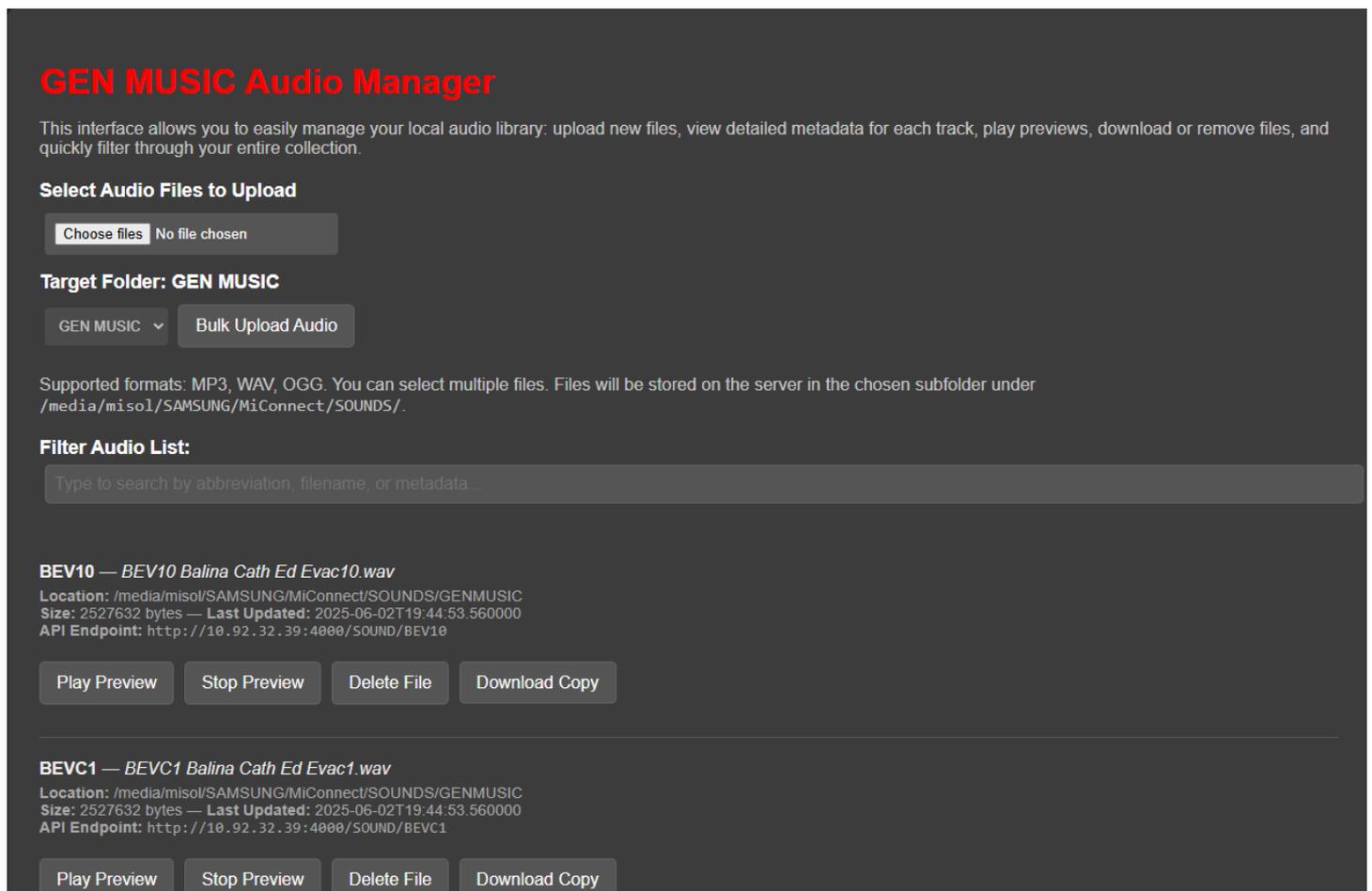
GEN MUSIC Audio Manager

This interface allows you to easily manage your local audio library: upload new files, view detailed metadata for each track, play previews, download or remove files, and quickly filter through your entire collection.

Select Audio Files to Upload

Choose files	No file chosen

Target Folder: GEN MUSIC

[GEN MUSIC ▾] [Bulk Upload Audio]

Supported formats: MP3, WAV, OGG. You can select multiple files. Files will be stored on the server in the chosen subfolder under `/media/misol/SAMSUNG/MiConnect/SOUNDS/`.

Filter Audio List:

[Type to search by abbreviation, filename, or metadata...]

BEV10 — *BEV10 Balina Cath Ed Evac10.wav*
Location: /media/misol/SAMSUNG/MiConnect/SOUNDS/GENMUSIC
Size: 2527632 bytes — **Last Updated:** 2025-06-02T19:44:53.560000
API Endpoint: http://10.92.32.39:4000/SOUND/BEV10

[Play Preview] [Stop Preview] [Delete File] [Download Copy]

BEVC1 — *BEVC1 Balina Cath Ed Evac1.wav*
Location: /media/misol/SAMSUNG/MiConnect/SOUNDS/GENMUSIC
Size: 2527632 bytes — **Last Updated:** 2025-06-02T19:44:53.560000
API Endpoint: http://10.92.32.39:4000/SOUND/BEVC1

[Play Preview] [Stop Preview] [Delete File] [Download Copy]

Managing Audio Files

Each audio file comes with the following options:

Button	Function
Play Preview	Stream the file directly to your browser to confirm audio quality
Stop Preview	Stops the currently playing preview
Delete File	Permanently removes the file from the system
Download Copy	Saves a local backup of the file to your computer

Additional metadata shown:

- **Location:** File path on the server
- **Size:** File size in bytes
- **Last Updated:** Timestamp of upload or last change
- **API Endpoint:** Direct HTTP path to trigger playback from any external tool

How to Use the Device List Filters

(How Not to Break the Screen Clicking the Wrong Thing)

The Device List helps you find and inspect every MiConnect device on your network. You can filter the list by group, brand, or type — no need to scroll through 50 devices manually.

Step-by-Step for Filtering:

1. **Find the Filter Bar**Look just above the table. You'll see three dropdown menus:
   - Group
   - Brand
   - Device Type
2. **Filter by Group**Click the dropdown beside **Group**. You'll see a list like:
   - ALL
   - ADMIN
   - LIBRARY
   - BLOCK_CPick one. The table will instantly refresh to show only devices in that zone.
3. **Filter by Brand**
   - Default is All.
   - Want to see only MiConnect stuff? Select **MiConnect**.
   - Got third-party integrations? Their brand names will show here too.
4. **Filter by Device Type**Need just Gateways? Relays? Speakers?

- ○ Click **Device Type** and choose what you're after.
5. **Stack Filters (Optional)**Go wild — combine all three filters.Example:
   - ○ Group: BLOCK_B
   - ○ Brand: MiConnect
   - ○ Device Type: RelayBoom — you're only looking at BLOCK_B relays made by MiConnect.
6. **Reset Filters**Want to go back to seeing everything?Just change each dropdown back to **All**

Bonus Tips

- You can't break it. Clicking around here is safe.
- If nothing shows up, you probably picked a combo that doesn't exist (like a "Siren" in "Library"). Just reset the filters and try again.

17 How to Read "THE CONSOLE"

(And How to Call the Right Things in The SEQUENCER)

The **Console** is your cross-reference cheat sheet for the entire system. It shows you what devices and actions are configured — and more importantly — gives you the exact API names you'll need to trigger those actions in sequences.

Console Sections

Each section corresponds to a specific module (audio, relays, vape detection, etc.). You'll find:

- **Local Audio Config** – Shows audio files configured to play locally on a specific gateway.
- **Multicast Audio Config** – Shows audio zones that play over multicast (e.g., ALL_SPEAKERS).

Sign, Relay, Siren, Strobe, CCTV, Vape, Webhook, Security – Lists devices with status and trigger API names.

THE CONSOLE
Local Audio Config
Sign Config
Multicast Audio Config
CCTV Inbound Config
I/O Config
Relay Config
Security Inbound Config
Siren Config
Strobe Config
Vape Detector Config
Webhook Config

THE CONSOLE

Local Audio Config

ID	Pri	Sec	Group	Device	Mode	Enabled	File 1	File 2	Volume	Channel	Loop	Dur	Next	API EP
20	3000	0001	ALL	GATEWAY3_CHURCH	MULTICAST	0	EVA8 TONE PULSE 3.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_EVA8T_L
21	3000	0002	ALL	GATEWAY3_CHURCH	MULTICAST	0	CLE11 SPOKEN AUDIO.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_CLE11_L*D360
22	3000	0003	ALL	GATEWAY3_CHURCH	MULTICAST	0	BEVC1 Balina Cath Ed Evac1.wav		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_BEVC1_L*D30
23	3000	0004	ALL	GATEWAY3_CHURCH	MULTICAST	0	LOC7-PULSING TONE 1.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH__L
24	3000	0005	ALL	GATEWAY3_CHURCH	MULTICAST	0	WEATHER EAS AU.mp3		0.7	STEREO	None	None	None	LA_M_ALL_GATEWAY3_CHURCH_WEATH_L

Sign Config

ID	Group	Type	Device	Mode	CT1	Next	CT2	API EP	Dur	En

Multicast Audio Config

ID	Name	IP	Port	Ch	Vol	Mode	Type	Group	DevName	DevIP	DevPort	En	API EP
7	ALL_SPEAKERS	239.239.14.50	48050	STEREO	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATWAY3_CHURCH			1	
8	LEFT_SPEAKERS	239.239.14.50	48051	LEFT	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATEWAY3_CHURCH			1	
9	RIGHT_SPEAKERS	239.239.14.50	48052	RIGHT	0.7	MULTICAST	AUDIO	ALL SPEAKERS	GATEWAY3_CHURCH			1	
10	CHURCH_ALL_SPEAKERS	239.239.14.50	48053	STEREO	0.7	MULTICAST	AUDIO	CHURCH_ALL	GATEWAY3_CHURCH			1	

Example: Reading Local Audio Config

Column	Meaning
Pri/Sec	API numerical index used in structured endpoints
Group	The group this audio is attached to (e.g., ALL, BLOCK_A)
Device	Which gateway this audio belongs to
Mode	Type of playback: LOCAL or MULTICAST
File 1/2	Audio files associated with this entry
Volume	Set volume for this entry (0.1–1.0)
Channel	Stereo or Mono
Loop	Whether it loops playback
Dur/Next	Duration override / next action
API EP	This is the one you need! It's the exact API Endpoint for sequencing

In the SEQUENCER, this entire endpoint is what you enter into a step:

LA_M_ALL_GATEWAY1_EVA8T_L_D360
LETS BREAK THAT DOWN
LA = LOCAL AUDIO M = MULTICAST ALL = THE GROUP CALLED "ALL" GATEWAY1 = THE DEVICE CALLED "GATEWAY1" EVA8T = THE SOUND FILE WITH THE ABBREVIATION OF "EVA8T" L = LOOP D360 = DURATION FOR 360 SECONDS THEN STOP OTHER ATTRIBUTES COULD BE NEXT = NEXT AUDIO THAT WILL PLAY - IT WILL THEN LIST THE NEXT AUDIO ABBREVIATION

Example: Reading Multicast Audio Config

Column	Meaning
Name	Label for the speaker group
IP/Port	Multicast address and port
Ch	Stereo, Left, or Right channel only
Vol	Volume level (0.1–1.0)
Mode	Always MULTICAST
Type	AUDIO or VIDEO
DevName	Gateway responsible for managing the stream
API EP	This is the multicast call for SEQUENCER

MC_M_ALL_SPEAKERS

MC = MULTICAST MODULE

M = MULTICAST SELECTED

ALL_SPEAKERS = IS THE MULTICAST GROUP END POINT

How to Cross Reference in SEQUENCER

1. Open THE CONSOLE and find the item you want to trigger.
2. Copy down the API Endpoint Name and then you can select that in the Sequencer.
3. In SEQUENCER, paste that into a new slot under "Action 1" (or 2–10).
4. Save and test the sequence.

18 How to Read "THE SEQUENCER"

Using the SEQUENCER

Create Smart, Automated Events with Up to 10 Actions Each — All Triggered by One API

What Is a Slot?

Lets think of the game Connect 4 - We want to start a new game.... So we have no tokens in the game its empty.

The Game interface (the plastic housing is the Slot) each time we add a token to the game we are adding a command to do something, the first token we write on it "I want to trigger the Evacuation Audio" and we add that to the game, we write on another token "I want to trigger a sign to say "Evacuation" and we add that to the game, we write on another token "I want the sign in the library to say the special command of exit the building" and we add that to the game. All the tokens are sitting there ready to go but there is one thing missing..... We need to add a piece of string to the latch to open the gate when we give the command. The API address that is automatically created http://{IP}:1800/SEQ/# is the string that connects the latch and the push button.

The time comes we are ready to press the button and we hit it, all the tokens fall out at once and imagine they all went off and did their tasks you wrote on them and not only that they came straight back and reloaded ready for the next trigger in milliseconds. Well that's the SEQUENCER.

A **Slot** is a programmable sequence of up to **10 commands** that trigger in order, with optional delays. Each Slot gets its own unique API Endpoint you can call, like:

You can have **unlimited Slots** (Slot 1, Slot 2, Slot 3, etc.) — each acting like its own smart macro.

THE SEQUENCER

Slot	Enabled	Device Type & API Endpoint			Gateway	SEQ API	Actions
1	☑	COMMAND 1	LOCAL AUDIO	LA_M_ALL_GATEWAY3_CHURCH_CLE11_L*[∨	GATEWAY3_CHURCH ∨	http://10.92.32.39:1800/SEQ/1	Save Del
		COMMAND 2	∨	∨			
		COMMAND 3	∨	∨			
		COMMAND 4	∨	∨			
		COMMAND 5	∨	∨			
		COMMAND 6	∨	∨			
		COMMAND 7	∨	∨			
		COMMAND 8	∨	∨			
		COMMAND 9	∨	∨			
		COMMAND 10	∨	∨			
		+ Action					

Step-by-Step: Building a Sequence

1. Add a New Slot

Click the green **+ Add Slot** button. This creates a new entry in the list.

2. Enable the Slot

Tick the checkbox under the **Enabled** column. This ensures the Slot is active and callable.

3. Assign a Gateway

In the **Gateway** dropdown, choose the device this sequence should run from (e.g., GATEWAY3_CHURCH). All 10 commands in a single Slot must execute from the same gateway.

4. Build Your Command Stack

Each line (COMMAND 1 through COMMAND 10) contains:

- A **Module Type** dropdown (e.g., LOCAL AUDIO, STROBE, RELAY)
- A list of **valid API Endpoints** based on that module(These are pulled directly from THE CONSOLE's API EP column)

You can:

- Use 1 command or all 10 — totally flexible.
- Mix audio, strobes, relays, vape events, and more (as long as the gateway has rights to those modules).

5. Assign API Endpoints

Select the right **API Endpoint** from the dropdown on each line.Example:

LA_M_ALL_GATEWAY1_EVA8T_L_D360

These API names come from THE CONSOLE. Match them exactly.

6. Save It

Click the green **Save** button in the last column. This:

- Locks in your sequence

Registers the new **SEQ API URL** shown in the far-right column(e.g., /SEQ/1 or /SEQ/4 depending on the slot)

Example Use Case

You want to:

1. Play a spoken evacuation message
2. Flash the strobe
3. Sound the siren
4. Display an "EVAC" sign

Command	Type	Endpoint
1	LOCAL AUDIO	LA_M_ALL_GATEWAY3_CHURCH_EVAC_L
2	STROBE	STR_M_ALL_GATEWAY3_CHURCH_HIGH_L
3	SIREN	SIR_M_ALL_GATEWAY3_CHURCH_CONT_L
4	SIGN	SIGN_M_ALL_GATEWAY3_CHURCH_EVAC_L

Modifying a Slot

- Simply change any command or gateway, then hit **Save** again.
- To remove a sequence slot, hit the red **Del** button.

Advanced Sequencing – Custom Delays & Chained Actions

Want your sequence to wait 30 seconds before triggering the next item? Or play two tones back-to-back automatically?

These types of **timing logic**, **next-file chaining**, and **loop options** aren't configured directly in the SEQUENCER.

Instead, they must first be **pre-programmed at the service level** using the following:

- **Multicast Audio Config** or
- **Local Audio Config***(Located under THE CONSOLE > Service Modules)*

In these tables, you can set:

- Dur → playback duration or override timeout
- Loop → continuous playback
- Next → specify another API EP to auto-trigger when this one finishes

Once programmed, you'll see the updated API Endpoint (including flags like *D30 for duration or _NXT1 for chaining) appear in the SEQUENCER dropdown list.

From there, simply select it like any other endpoint and add it into your command stack — no manual coding required.

---

19 Device Time Zone and Date Update

Keep your gateway's clock accurate for scheduled actions, alerts, and logs.

Step-by-Step Instructions

1. **Select Time Zone**
   - Use the dropdown to choose your region (e.g., Australia/Brisbane).
   - This ensures correct local time for daylight savings and scheduling accuracy.
2. **Set Date**
   - Click the calendar icon or type the date in dd/mm/yyyy format.
   - This sets the internal clock's calendar day.

3. **Set Time**
   ○ Use the clock icon or manually enter the current time (12-hour format, AM/PM).
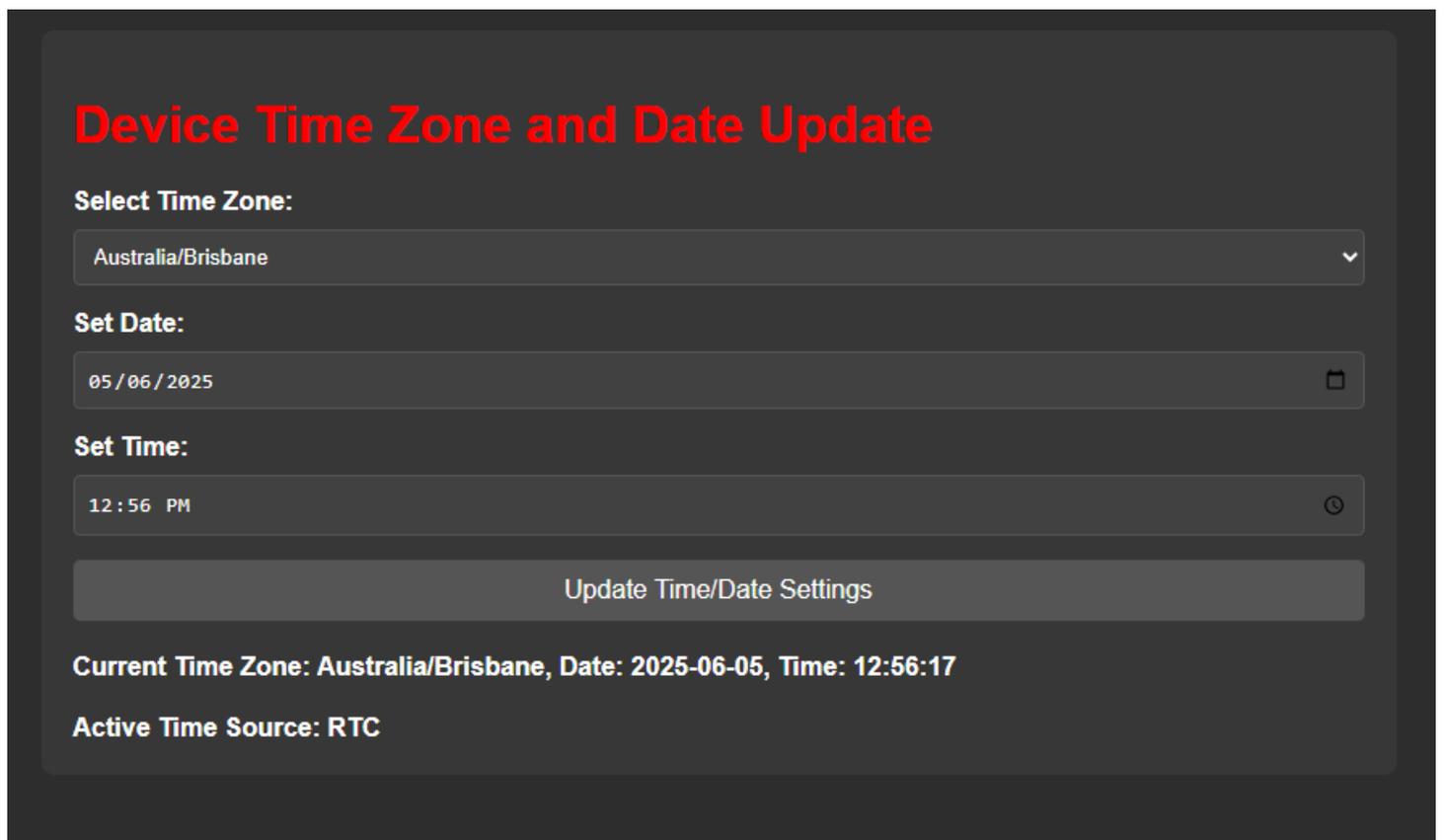4. **Update Time/Date Settings**
   ○ Click the **"Update Time/Date Settings"** button to apply changes.
   ○ The display below will update with the new time zone and current device time.

Status Display

After updating, the bottom line will confirm:

- **Current Time Zone**
- **Device Time (live)**
- **Active Time Source:**
  ○ RTC → Internal Real-Time Clock
  ○ NTP → Network Time Protocol (if enabled at the service level)
  ○ GPS → From a GPS module (if installed)

If you need automated time syncing via NTP or GPS, this must be configured by MiSolutions or an authorized technician in the service backend.

20 Network Configuration – Set Ethernet or Wi-Fi Access

This menu allows users to configure wired or wireless networking for each MiConnect Gateway. All IP settings are saved persistently across reboots and power cycles.

Ethernet Configuration (Recommended)

For all critical gateways (especially signage, audio, or duress-enabled units), a static Ethernet IP is recommended.

Step-by-Step for Static IP Setup:

1. **Uncheck "Use DHCP"**This will reveal the manual input fields.
2. **Enter Network Details:**
   - **IP Address** – e.g. 1192.168.14.50
   - **Subnet Mask** – e.g. 255.255.255.0
   - **Gateway** – e.g. 192.168.14.1
   - **DNS** – e.g. 8.8.8.8 or your internal resolver
3. **Save Settings**Click **"Save Ethernet Settings."**Your changes will apply immediately — if successful, the new IP will display under "Network Details."

 Tip: Don't apply a new IP address unless you know it's valid on your network. You may lose access if misconfigured.

Wi-Fi Configuration (Optional)

Use Wi-Fi for commissioning, mobile hotspots, or portable nodes. Not all devices have Wi-Fi support.

Step-by-Step for Wi-Fi:

1. **Scan for Networks**Click **"Scan for Networks"** and wait for the SSID dropdown to populate.
2. **Select Network & Enter Password**Choose your SSID and input the **Wi-Fi Password**.
3. **Connect Wi-Fi**Click **"Connect Wi-Fi"**. If successful, the IP will be displayed under **Network Details**.

Note: If Wi-Fi is "Not Available," it means this device has no Wi-Fi chipset installed

RustDesk Remote Access (Support Use)

- If requested by support, click **"Open RustDesk Web"**.
- This opens the browser-based remote support tool.
- Follow on-screen prompts to generate a one-time support code.

Tip:

- After saving settings, always refresh the page and confirm your device IP under **Network Details**.
- For static IPs, update your bookmarks with the new address!

Configure Ethernet

☐ Use DHCP

IP Address

Enter IP Address

Subnet Mask

Enter Subnet Mask

Gateway

Enter Gateway

DNS

Enter DNS

Save Ethernet Settings

Configure Wi-Fi

Scan for Networks

Wi-Fi Password

Enter Wi-Fi password

Connect Wi-Fi

Network Details

Ethernet: 10.92.32.39 (Netmask: 255.255.255.0, Broadcast: 10.92.32.255)

Wi-Fi: Not Available (Netmask: N/A, Broadcast: N/A)

Open RustDesk Web

21 User Management – Add, Edit, and Remove Users

This panel allows you to control login access for MiConnect's user interface. All user accounts created here will have full access to the user-side menus and functions.

There are no granular roles or restrictions — all users created here are equal in permission level.

Creating a New User

1. Go to the **Create New User** section.
2. Fill in the fields:
   - **Name** (e.g., John Smith) – This is for display only.
   - **Username** (e.g., john.smith) – This is what the user will log in with.
   - **Password** – Must be typed manually. There is no password visibility toggle, so type carefully.
3. Click **Create**.
   - The user will appear instantly in the top user table.
   - They can now log in with their credentials immediately.

Editing an Existing User

1. Go to the Edit User section.
2. From the dropdown, select the user account you want to modify.
3. Optional:
   - Enter a new Username (or leave blank to keep it unchanged).
   - Enter a new Password (or leave blank to keep the current one).
4. Click Update to apply the changes.

Deleting a User

- In the top table, click **Delete** next to any user to permanently remove their access.

 The **admin** account cannot be deleted from the user interface.If you need to remove or lock this account, it must be done via backend service access.

Security Note

- For best practice, avoid reusing usernames between sites or devices.
- Use strong passwords and change them periodically.
- Users are automatically logged out after 10 minutes of inactivity.

User Management

ID	Name	Username	Actions
2	Default Admin	admin	Delete
3	misol	misol	Delete

Create New User

Name (First Last) Create

Username

Password

Edit User

— select user — Update

Username

leave blank to keep

---

22 Logs – View, Diagnose, and Export System Activity

The Logs module gives users insight into everything MiConnect does behind the scenes. Whether it's audio playback, GSM messages, webhook calls, or device reboots — it's all logged here.

This section is for viewing activity, troubleshooting issues, and optionally exporting reports as a PDF.

How It Works

1. **Main Log Menu** You'll see a tile grid with all log categories:
   - Local Audio, CCTV, Webhook, Vape, NTP, SMS, Sign Module, Security Module, etc.
2. **Click a Category** Click any tile (e.g., "Local Audio") to open that module's log history.
3. **View Logs**
   - Entries are listed chronologically.

○ Each log entry includes a full timestamp, event type (e.g. INFO), and message.
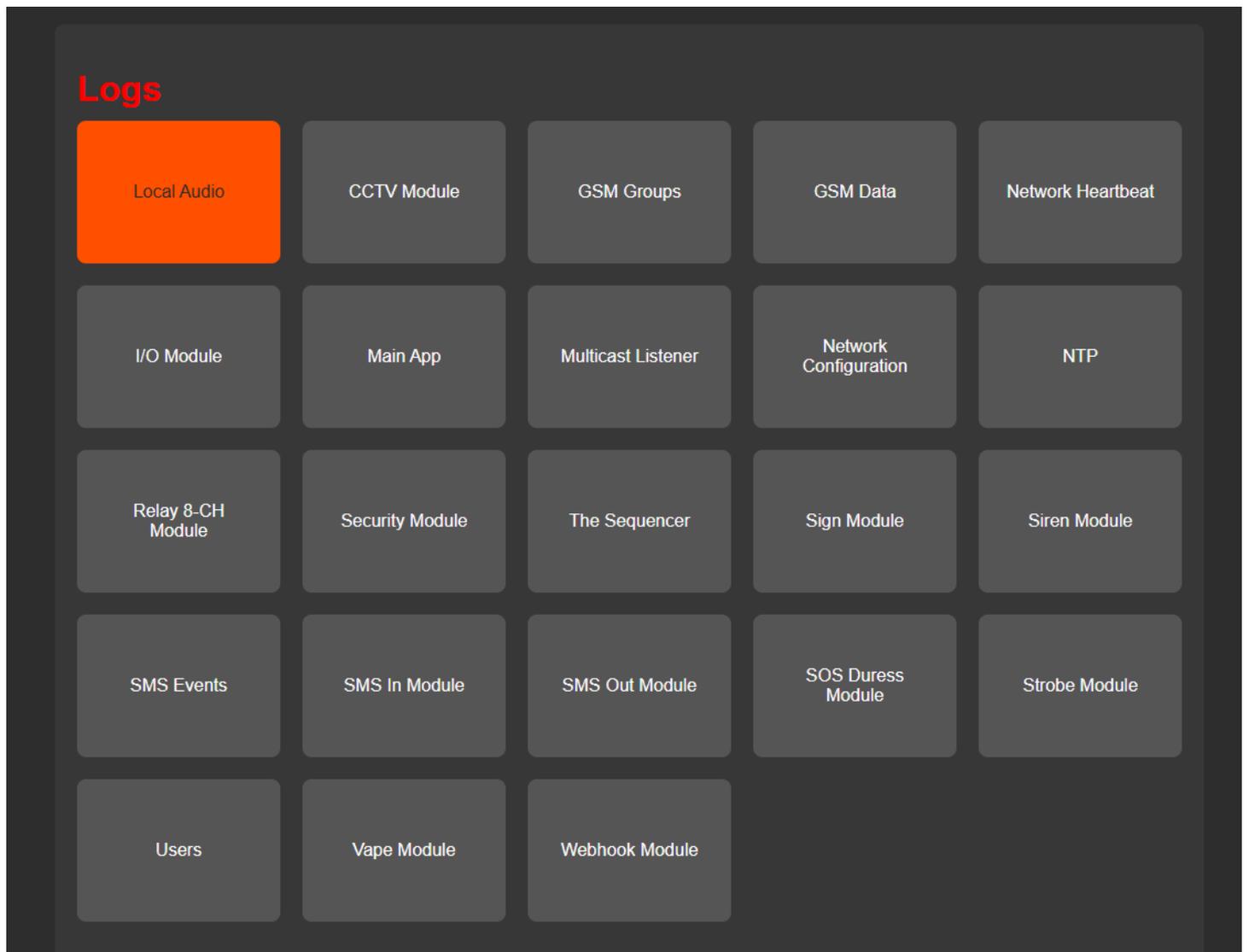
Export Logs

Once inside a category:

1. Scroll to the bottom of the log list
2. Click the **Print / Save** button
3. This opens your browser's print dialog
4. Choose **Save as PDF** to export the log for email/reporting

Tips:

- All logs are stored in rotation (typically 30 days per module)
- Logs cannot be edited or cleared by users (read-only view)
- If requested by support, email the exported PDF for quick remote troubleshooting

Logs

Local Audio	CCTV Module	GSM Groups	GSM Data	Network Heartbeat
I/O Module	Main App	Multicast Listener	Network Configuration	NTP
Relay 8-CH Module	Security Module	The Sequencer	Sign Module	Siren Module
SMS Events	SMS In Module	SMS Out Module	SOS Duress Module	Strobe Module
Users	Vape Module	Webhook Module		

2025-05-26 16:39:33,429 INFO: Audio playback terminated.

2025-05-26 16:40:03,430 INFO: Playback finished

2025-05-26 16:40:03,431 INFO: Audio playback terminated.

2025-05-26 16:40:41,996 INFO: Playback finished

2025-05-26 16:40:41,996 INFO: Audio playback terminated.

2025-05-29 12:44:07,649 INFO: Playback finished

2025-05-29 12:44:07,650 INFO: Audio playback terminated.

2025-05-29 12:48:38,956 INFO: Playback finished

2025-05-29 18:27:57,657 INFO: Playback finished

2025-05-29 18:27:57,659 INFO: Audio playback terminated.

2025-05-31 17:43:02,905 INFO: Playback finished

2025-05-31 17:48:02,171 INFO: Playback finished

2025-05-31 17:48:02,171 INFO: Audio playback terminated.

2025-05-31 17:35:59,609 INFO: Playback finished

2025-05-31 17:35:59,611 INFO: Audio playback terminated.

Print / Save

Logs

Local Audio	CCTV Module	GSM Groups	GSM Data	Network Heartbeat
I/O Module	Main App	Multicast Listener	Network Configuration	NTP
Relay 8-CH Module	Security Module	The Sequencer	Sign Module	Siren Module
SMS Events	SMS In Module	SMS Out Module	SOS Duress Module	Strobe Module
Users	Vape Module	Webhook Module		

Logs for: audio

2025-06-02 16:34:56,823 INFO: Playback finished

2025-06-02 16:34:56,824 INFO: Audio playback terminated.

2025-06-02 17:27:05,048 INFO: Playback finished

2025-06-02 17:27:05,049 INFO: Audio playback terminated.

2025-06-02 17:38:55,602 INFO: Playback finished

2025-06-02 17:38:55,603 INFO: Audio playback terminated.

2025-06-02 22:08:57,103 INFO: Playback finished

2025-06-02 22:08:57,104 INFO: Audio playback terminated.

2025-05-01 15:41:33,771 INFO: Play local /media/misol/40F6-FC38/MiConnect/SOUNDS/Limp Bizkit - My Generation (UNCENSORED) HD.wav once

2025-05-01 15:43:40,880 INFO: Play local /media/misol/40F6-FC38/MiConnect/SOUNDS/Shedding Skin.mp3 once

---

Print   12 pages

Destination   Save as PDF   ▼

Pages   All   ▼

Layout   Portrait   ▼

More settings   ⌄

Save   Cancel

23 System Update – How to Apply Gateway Software Updates

This interface lets you securely upload and apply certified MiConnect firmware or software updates. These updates improve features, fix bugs, or add new module compatibility.

Only ZIP files from misol.com.au are accepted.All updates are encrypted and password-protected internally — users cannot tamper with the contents.

Step-by-Step Update Instructions

1. Check Your Current Version

The installed version is displayed at the top (e.g., Current Version: 1.5.4).

2. Get the Certified Update

Download the latest ZIP file from the MiSolutions official website or support team.

 Do not rename or unpack it — just download and leave it intact.

3. Choose the File

Click **Choose File**, and select the downloaded .zip file.

4. Upload & Verify

Click **Upload & Verify ZIP**.

- The system will scan and validate the ZIP file.
- If successful, it will unlock the Confirm Update button.

5. Confirm the Update

Click **Confirm Update** to start the process.The system will:

- Apply the patch
- Update all necessary services
- Prompt you to reboot the device once finished

Notes & Best Practice

- Always run updates while connected via Ethernet to avoid interruption.
- If using Wi-Fi, ensure you're on a stable power source and signal.
- You cannot interrupt the update process once confirmed.

If something goes wrong (e.g., corrupted ZIP or power failure), contact support for recovery assistance

24 Integrating the TOA A1 RM with the MiConnect Gateway Ecosystem

Introduction

The TOA unit seamlessly integrates with the MiConnect system to manage campus-wide notifications, audio distribution, and automated events. This manual provides step-by-step instructions for setting up the TOA unit within the MiConnect environment.

25 Configuring the Command List

- Command Structure:
  - The command list on the TOA unit supports 10 commands, each with 20 command slots.
  - Each command slot requires a name (set via "Set Name"), and each slot will use a POST method for the MiConnect system integration.
- URL and Method Configuration:
  - For each command slot, enter the URL from the MiConnect sequencer. This URL will typically follow the format http://<gateway_ip>:1800/seq/<number>, where <gateway_ip> is the IP of each gateway and <number> is the sequence event number.
  - Set the method to POST. Leave the username and password fields blank.
- Media File Selection:
  - Due to the TOA protocol requirements, each command must select a media file. Choose the blank media file api.wav to fulfill this requirement.

26 Configuring Sequence Events

- Sequencer Integration: - This is where that MiConnect Sequencer String connects to allowing the systems to join (Remember the Connect 4 game metaphor)

- ○ The MiConnect system handles sequences similar to the TOA command list but executes them in a predefined order. Each command slot should correspond to a sequence event for a specific gateway.
- ○ For example, command slot 1 could point to http://192.168.14.32:1800/seq/1, command slot 2 to http://192.168.14.33:1800/seq/1, and so on.
- ○ Ensure each sequence event across all gateways is set up identically, triggering the same action campus-wide.
- ● Playing Audio Files:
  - ○ To play an audio file across all gateways, assign the same audio file path (e.g., http://<gateway_ip>:4000/sound/alarm.wav) to each command slot on different gateways.
  - ○ The same audio file will then be triggered simultaneously on all gateways.
  - ○ The same audio file will then be triggered simultaneously on all gateways.

When you are ready to add custom songs or bell tones please reach out to support@misol.com and we will arrange for teams video meeting where we will get you to drive the changes but we will just help you along so the process is stress free, as we always will say we are here for the life of the product and that means supporting the client in every way we can.

***Note about Audio Priority:

When streaming Audio from the console through the AUX or from the Pattern Section of the console if an Evacuation / Lock Down pressed the audio that is streaming will not stop but the tones will play over the top. If you are streaming from your phone direct or through a Bluetooth converter you can press the talk button to stop the music from playing or if in a panic simply stop the music on your device.

When playing a song through the Command section (direct from the MiConnect Gateways and you activate any events the music will stop playing and the event tone will commence within milliseconds.*******

Finalizing and Using Commands

- ● Saving and Naming:
  - ○ After configuring the command slots, save the settings and give each command a clear name.
  - ○ These commands can then be assigned to keys or scheduled events within the TOA unit's scheduler.
- ● Testing and Validation:
  - ○ Test each command to ensure it triggers the correct sequence or audio file across all gateways. Verify synchronization and consistency in event execution.

Command List Designation

- ● Command Slots (C0 to C9):
  - ○ C0: Evacuation
    - ■ Designated for initiating campus-wide evacuation alerts.
  - ○ C1: Lockdown
    - ■ Assigned for triggering lockdown procedures.
  - ○ C2: All Clear
    - ■ Used for signalling that an all-clear status has been reached.
  - ○ C3: Cancel All Events
    - ■ Reserved for cancelling all active alerts or events.
  - ○ C4: Wet Weather
    - ■ Designated for wet weather notifications.

- Bespoke Commands (C5 to C8):
  - These slots can be customized for any additional events or actions specific to the institution's needs.
  - Note: While these cannot be locked down, it's important to handle them carefully as they could trigger high-priority or sensitive actions.
- C9: Audio Tracks
  - This slot is reserved for frequently updated audio tracks. It's kept separate from other critical commands to ensure easy access and management.

Notes on Command Management

- Awareness and Precaution:
  - Commands from C0 to C4 are critical and should be programmed carefully to reflect the correct emergency procedures.
  - C5 to C8 are flexible but should be managed with caution to avoid unintended activations.
  - C9 is specifically for audio content that needs regular updates, keeping it isolated from other emergency or bespoke commands.

Command List										SAVE
C0	C1	C2	C3	**C4**	C5	C6	C7	C8	C9	

Command Set Name	SCHOOL BELL

Command1

URL	http://10.92.32.39:4000/SOUND/BEVC5
Method	POST
Username	
Password	
Media File	API.wav

Command2

URL	http://10.92.32.36:4000/SOUND/BEVC5
Method	POST
Username	
Password	

Command List

SAVE

Command Set Name   EVACUATION ALERT DO NOT TOUCH

Command1

URL	http://192.168.14.32:1800/SEQ/1
Method	POST
Username	
Password	
Media File	API.wav

Command2

URL	
Method	GET
Username	
Password	

---

27 Destination Menu – MiConnect Multicast & Unicast Configuration

The Destination menu in the TOA A-1RM console defines how audio is routed to MiConnect devices. This is where you program and manage broadcast groups for live announcements, scheduled messages, and command-initiated audio triggers.

Multicast vs Fanned Unicast vs Unicast — MiConnect Context

Mode	Description	Use Case Example	Pros	Cons
Multicast	One-to-many IP transmission. One stream sent, routers/switches fan it out.	Campus-wide announcements to all gateways.	Low bandwidth, fast, synchronized audio.	Requires managed switches, IGMP setup.
Fanned Unicast	Server sends one stream per device manually. Looks like multicast but isn't.	Small zone paging (e.g. 3–4 speakers in a staff room).	Works on unmanaged networks.	High CPU/network load for many devices.
Unicast	Direct one-to-one communication to a single IP.	Triggering a siren or one-device audio.	Simple, reliable for one-off events.	Not scalable for groups.

In MiConnect:

- **Multicast** is preferred for everything from "ALL_CAMPUS" down to stereo zones like "Gateway1_Stereo".
- **Fanned Unicast** is your fallback for unmanaged networks or when multicast routing fails.
- **Unicast** is used for specific device-triggered actions, not audio zones.

TOA Destination Menu Usage

Each Destination entry maps to a **label** (for the user) and a **multicast IP** (used by the system). These destinations are selected when:

- Setting up Keys → Manual / Pattern → Destination = multicast group
- Configuring Scheduler → Pattern action → Destination
- Configuring external triggers via Sequencer → Audio or relay commands

Destination

Multicast Transfer Channel Settings

	Group Name	Multicast Address	Port
1	MICONNECT STEREO	239 . 239 . 14 . 50	48050
2	MICONNECT LEFT	239 . 239 . 14 . 50	48051
3	MICONNECT RIGHT	239 . 239 . 14 . 50	48052
4	Multicast 4	239 . 239 . 14 . 4	48006
5	Multicast 5	239 . 239 . 14 . 5	48008
6	Multicast 6	239 . 239 . 14 . 6	48010
7	Multicast 7	239 . 239 . 14 . 7	48012
8	Multicast 8	239 . 239 . 14 . 8	48014
9	Multicast 9	239 . 239 . 14 . 9	48016
10	Multicast 10	239 . 239 . 14 . 10	48018
11	Multicast 11	239 . 239 . 14 . 11	48020
12	Multicast 12	239 . 239 . 14 . 12	48022

28 Key Settings Configuration

Key Assignments

- **Key Range:** The TOA unit supports up to 50 keys, organized into 5 pages with 10 keys per page.
- **Naming:** Each key can be named in the GUI interface. The assigned name is displayed on the hardware console, making it easy to identify each function.

Key Modes

- **Manual Mode:** Selecting manual mode allows you to choose between three input sources:
  - **Mic:** For live audio streaming via the microphone.
  - **Record:** To pre-record audio and then broadcast it.
  - **Auxiliary:** For streaming audio from an external device connected via the 3.5mm jack. Note: The audio quality may be lower due to compression.
- **Multicast vs. SIP:** In the MiConnect system, multicast is used rather than SIP. Under the multicast option, you can select pre-programmed multicast channels such as "All Speakers," "Gateway 1 Stereo," "Gateway 1 Left Channel," or "Gateway 1 Right Channel," depending on how the system is set up.

- **Chime:** Each key can also be configured with a preamble chime, which can be set up in the chime menu.
- **Control Out:** The control out function allows the console to control external hardware devices via contact closures on the back of the TOA unit.

Pattern Mode

- **Streaming Music:** Pattern mode allows continuous music streaming from the TOA console to a multicast channel (e.g., "All Speakers") without the need to load it onto each gateway device. This method offers convenience but may result in slightly lower audio quality due to network compression.
- **Local Triggering:** For optimal audio quality, it's recommended to load audio files directly onto each gateway device and trigger them via command sets. This ensures the best audio fidelity using the pro audio card.

Command Set Mode

- **Triggering Commands:** In the command set mode, you can assign any of the predefined commands (e.g., Evacuation, Lockdown, All Clear) to a key. This also includes API endpoints for any audio files uploaded to the gateways.
- **Execution:** Pressing the assigned key triggers the selected command or plays the designated audio file, ensuring the highest possible audio quality across the campus.

Corrected Multicast Port Mapping (Per Gateway or Zone)

Group / Zone Name	Multicast IP	Port	Description
Gateway1_Dual Zone	239.10.1.1	48050	Full Dual stream (1+2 interleaved)
Gateway1_Zone 1	239.10.1.1	48051	Zone 1 only
Gateway1_Zone 2	239.10.1.1	48052	Zone 2 only
Gateway2_Dual Zone	239.10.2.1	48050	Full stereo stream
Gateway2_Zone 1	239.10.2.1	48051	Zone 1 only
Gateway2_Zone 2	239.10.2.1	48052	Zone 2 only
BLOCK_A (Admin)	239.10.10.10	48050	Full zone broadcast (2 Zones)
BLOCK_B (Science)	239.10.20.10	48050	Full zone broadcast (2 Zones)
ALL_CAMPUS	239.10.255.255	48050	All zones, all devices (2 Zones)
STAFF_ONLY	239.10.99.1	48050	Private area Zone 1

Why It Matters (TOA & MiConnect Routing Logic)

- The **multicast IP stays the same** for each group or device.
- The **port defines the stream type**:
  - 48050 → Stereo (default for most audio files)
  - 48051 → Left channel only
  - 48052 → Right channel only

This allows MiConnect units to:

- **Join a single IP** but selectively listen on the port they're configured for.
- Be flexible in audio targeting while reducing IP complexity in the network.

Key Settings

SAVE

| | 1 - 10 | 11 - 20 | 21 - 30 | 31 - 40 | 41 - 50 |

	Key Name	Action	Destination	Chime	Control Out
1	PA ANNOUNCEMENT ALL	Manual / Mic ✓ Rec ☐ AUX ☐	Multicast / MICONNECT STEREO	✓	☐
2	PA ANNOUNCEMENT LEFT	Manual / Mic ✓ Rec ☐ AUX ☐	Multicast / MICONNECT LEFT	✓	☐
3	PA ANNOUNCEMENT RIGHT	Manual / Mic ✓ Rec ☐ AUX ☐	Multicast / MICONNECT RIGHT	✓	☐
4	MUSIC	Pattern / ED	Multicast / MICONNECT STEREO	☐	☐

29 Events Configuration

Control In and Control Out

- **Overview:** The events section handles the physical control inputs and outputs on the TOA unit. It has two input triggers and one output, which can be assigned to specific functions.
- **Control In 1 and Control In 2:**
  - **Control In 1:** Assigned to a hardware push-button for immediate evacuation activation. This button is typically red and provides a quick, easily distinguishable means to initiate an evacuation.
  - **Control In 2:** Assigned to a hardware push-button for lockdown activation. This button is usually blue and located on the same panel as the evacuation button.
- **Control Out:**
  - The control out interface can be used to trigger external hardware devices via the TOA console's contact closures.

Configuring Control In Actions

- **Action Settings:**
  - Each control input can trigger a specific action. For example, Control In 1 is linked to the evacuation command (C0), and Control In 2 is linked to the lockdown command.
  - The action can be set to trigger a pattern (like an audio file), an auxiliary input, or a command list entry.
- **Edge Triggering and Normal State:**
  - Inputs are set to "Normally Open" and "Edge" triggering, meaning the action is activated when the button is pressed down.
- **Special Note:** Since these inputs handle critical functions like evacuation and lockdown, it's crucial not to alter these settings once configured, as it may prevent proper operation.

All Clear and Clear All Events

- **All Clear:** This function is generally assigned to a key on the TOA console, often Key 49, and is used to signal that an all-clear status has been reached.

- **Clear All Events:** This function is assigned to Key 50 and is used to cancel all active alerts or events. These keys are placed towards the end to avoid accidental activation and are easily accessible when needed.

30 Scheduler Configuration

Creating Scheduled Events

- **Adding Events:** To create a new scheduled event, simply click on the calendar at the desired date and time.
- **Naming and Categorizing:** Each event can be named and assigned to one of ten customizable categories (e.g., Bell Times, Meditation Bell). You can add as many events to a category as needed.

Action Types

- **Pattern:**
  - When selecting "Pattern," you can assign an audio file stored directly on the TOA console.

- ○ Choose the multicast destination (e.g., All Speakers) to broadcast the audio across the entire campus.
- **Command Set:**
  - ○ For better audio quality, use the "Command Set" option. This triggers a pre-configured command that plays the audio directly from each gateway at pro audio quality. For example, a "Meditation Bell" command set triggers the meditation music on all gateways simultaneously.
- **Repeat Options:**
  - ○ Scheduled events can be set to repeat daily, weekly, or monthly, allowing for flexible and automated scheduling of routine events.

Preferences

- **Command Set Preferred:** Using the command set is recommended for events where audio quality is crucial, especially in larger campuses with multiple gateways.
- **Pattern for Simplicity:** For quick and easy broadcasts without configuring each gateway individually, the pattern option is a convenient choice.

08:30:00 MORNING PLAY BELL | 08:30:00 MORNING PLAY BELL | 08:30:00 MORNING PLAY BELL

08:55:00 FIRST | 09:00:00 | 08:55:00 FIRST | 09:00:00 | 08:55:00 FIRST | 09:00:00

MORNING PLAY BELL

2025/06/03 08:30:00   ✕

Category	● BELL TIMES
Action	Command Set(SCHOOL BELL)
Priority	-
Destination	-

Edit Schedule   **Edit Task**   **Delete**

11:00:00 LUNCH | 11:00:00 LUNCH | 11:00:00 LUNCH | 11:00:00 LUNCH | 11:00:00 LUNCH

11:15:00 PLAY BELL | 11:15:00 PLAY BELL | 11:15:00 PLAY BELL | 11:15:00 PLAY BELL | 11:15:00 PLAY BELL

11:40:00 | 11:45:00 | 11:45:30 | 11:40:00 | 11:45:00 | 11:45:30 | 11:40:00 | 11:45:00 | 11:45:30 | 11:40:00 | 11:45:00 | 11:45:30 | 11:40:00 | 11:45:00 | 11:45:30

Repeat Settings

Repeat Condition	Every Day ▼	
Last Date	☑ Endless	
Valid Dates	Today 2025/06 < >	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	(5)	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

OK

11:00

11:00:00 LUNCH   11:00:00 LUNCH

31 Your Site Specific Information.

Customer Site Specific Details:

User Menu Default Login for MiConnect Gateways

2	Default Admin	admin	guest
3	New User	User Name	Password

User Menu Default Login for TOA Console

2	Default Admin	admin	guest
3	Default User	user	password

Default login addresses:

Gateway1 -

http://xxx.xxx.xx.xx

Gateway2 -

http://xxx.xxx.xx.xx

Gateway 3 -

http://xxx.xxx.xx.xx

Multicast Configurations:

 Device : GATEWAY3 - xxx.xxx.xx.x

Multicast Configurations:

_____

Default Settings:

TOA Command List C0:
EVACUATION - DO NOT MODIFY
Command 1 - http://xxx:1800/SEQ/1
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/1
Username:
Password:
POST
Media File API.wav
Command 3 - http://xxx:1800/SEQ/1
Username:
Password:
POST
Media File API.wav

TOA Command List C1:
LOCKDOWN - DO NOT MODIFY
Command 1 - http://xxx:1800/SEQ/2
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/2
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/2
Username:
Password:
POST
Media File API.wav

TOA Command List C2:
ALL CLEAR - DO NOT MODIFY
Command 1 - http://xxx:1800/SEQ/4
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/4
Username:
Password:
POST
Media File API.wav
Command 3 - http://xxx:1800/SEQ/4
Username:
Password:
POST
Media File API.wav

TOA Command List C3:
CANCEL EVAC & LOCK & ALL CLEAR
Command 1 - http://xxx:4000/STOPAUDIO
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:4000/STOPAUDIO
Username:
Password:
POST
Media File API.wav
Command 3 - http://xxx:4000/STOPAUDIO
Username:
Password:
POST
Media File API.wav

TOA Command List C4:
WET WEATHER - DO NOT MODIFY
Command 1 - http://xxx:1800/SEQ/3
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/3
Username:
Password:
POST
Media File API.wav
Command 3 - http://xxx:1800/SEQ/3
Username:
Password:
POST
Media File API.wav

TOA Command List C4:
SCHOOL BELL
Command 1 - http://xxx:1800/SEQ/5
Username:
Password:
POST
Media File API.wav
Command 2 - http://xxx:1800/SEQ/5
Username:
Password:
POST
Media File API.wav
Command 3 - http://xxx:1800/SEQ/5
Username:
Password:
POST
Media File API.wav

TOA System settings:

THE NTP IS SET TO : time.pool.net.au

System

Date and Time

NTP	**ON** ● Synchronized
NTP Server 1	0.au.pool.ntp.org
NTP Server 2	time.google.com
Sync with PC	○ OFF
Manual Setting	2025 / 6 / 13 14 : 59 : 17
	(YYYY/MM/DD HH:MM:SS)
Time Zone	(UTC+10:00) Canberra, Melbourne, Sydney ▾
Enable Daylight Saving Time	☑

Language Setting

Language	English ▾

Key Settings:

Key Settings

	Key Name	Action		Destination		Chime	Control Out
1	PA ANNOUNCE ALL	Manual ⌄	Mic ✓ Rec ☐ AUX ☐	Multicast ⌄ / ALL AREAS ⌄		✓	☐
2	PA ANNOUNCE MAIN SECTION ONLY	Manual ⌄	Mic ✓ Rec ☐ AUX ☐	Multicast ⌄ / MAIN BUILDING ⌄		✓	☐
3	PA ANNOUNCEME CHURCH ONLY	Manual ⌄	Mic ✓ Rec ☐ AUX ☐	Multicast ⌄ / CHURCH ONLY ⌄		✓	☐
4	--	Manual ⌄	Mic ☐ Rec ☐ AUX ✓	Multicast ⌄ / ------------------ ⌄		☐	☐
5	--	Manual ⌄	Mic ✓ Rec ✓ AUX ✓	Multicast ⌄ / ALL AREAS ⌄		✓	☐
6	--	Manual ⌄	Mic ✓ Rec ✓ AUX ✓	Multicast ⌄ / ------------------ ⌄		✓	☐
7	--	Manual ⌄	Mic ✓ Rec ☐ AUX ☐	Multicast ⌄ / ------------------ ⌄		✓	☐
8	PLAY AUDIO VIA AUX STREAM	Manual ⌄	Mic ☐ Rec ☐ AUX ✓	Multicast ⌄ / ALL AREAS ⌄		☐	☐
9	PLAY AUDIO VIA COMMAND SECTION	Command Set ⌄ / COMMAND SONG CHANGE AS.. ⌄					
0	PLAY AUDIO VIA PATTERN SECTION	Pattern ⌄ / HAPPY ⌄		Multicast ⌄ / ALL AREAS ⌄		☐	☐

Key Settings

	Key Name	Action			Destination	Chime	Control Out
1	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☐	AUX ☑	————————— ⌄		
2	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☐	AUX ☑	————————— ⌄		
3	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☐	AUX ☑	————————— ⌄		
4	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
5	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
6	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
7	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
8	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
9	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		
0	NA	Manual ⌄			Multicast ⌄	☑	☐
		Mic ☑	Rec ☑	AUX ☑	————————— ⌄		

Key Settings

		1 - 10	11 - 20	21 - 30	31 - 40	41 - 50

	Key Name	Action	Destination	Chime	Control Out
1	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
2	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
3	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
4	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
5	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
6	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
7	NA	Manual ⌄ Mic ☑ Rec ☑ AUX ☑	Multicast ⌄ ———————— ⌄	☐	☐
8	WET WEATHER EVENT	Command Set ⌄ WET WEATHER - DO NOT MOD..⌄			
9	ALL CLEAR ALERT	Command Set ⌄ ALL CLEAR - DO NOT MODIFY ⌄			
0	CANCEL EVAC & LOCK & ALL CLEAR	Command Set ⌄ CANCEL EVAC & LOCK & ALL C.⌄			

Network

Multicast Destinations

Common Settings

Audio Codec	G711u ⌄
TTL	1

Audio settings:

Audio

Audio Input Sensitivity

Microphone Sensitivity	0: 0.0 dB ⌄
AUX IN Mute	☐
AUX IN Sensitivity	0: 0.0 dB ⌄

Media:

Media

	Media List		76.5 MB free of 80.0 MB		
1	▶	Happy.mp3	⬆	⬇	🗑
2	▶	None	⬆	⬇	🗑
3	▶	None	⬆	⬇	🗑
4	▶	None	⬆	⬇	🗑
5	▶	None	⬆	⬇	🗑
6	▶	None	⬆	⬇	🗑
7	▶	None	⬆	⬇	🗑
8	▶	None	⬆	⬇	🗑
9	▶	None	⬆	⬇	🗑
10	▶	None	⬆	⬇	🗑
11	▶	None	⬆	⬇	🗑
12	▶	None	⬆	⬇	🗑
13	▶	None	⬆	⬇	🗑
14	▶	None	⬆	⬇	🗑
15	▶	None	⬆	⬇	🗑
16	▶	None	⬆	⬇	🗑
17	▶	None	⬆	⬇	🗑
18	▶	None	⬆	⬇	🗑
19	▶	None	⬆	⬇	🗑
20	▶	API.wav	⬆	⬇	🗑

Chime

Chime

Chime Settings

Start Chime	22050Intro.wav
Volume	0: 0 dB
End Chime	22050Outro.wav
Volume	0: 0 dB

Chime List

1	▶	TOA Chime (Start)			
2	▶	TOA Chime (End)			
3	▶	4-Step Up Chime			
4	▶	4-Step Down Chime			
5	▶	2-Step Chime			
Custom 1	▶	22050Intro.wav	⬆	⬇	🗑
Custom 2	■	22050Outro.wav	⬆	⬇	🗑

Pattern:

Pattern

Test   PLAY   STOP   Status: Idle

	Pattern Name	Media File	Repeat			Interval	Delay	Input Volume	Control-out
1	HAPPY	Happy.mp3	Play Count	1	times	1 sec	0 sec	0: 0 dB	
2	--	None	Duration	35	sec	1 sec	0 sec	0: 0 dB	
3	--	None	Play Count	1	times	3 sec	0 sec	0: 0 dB	
4	--	None	Play Count	1	times	3 sec	0 sec	-10: -10 dB	
5	--	None	Play Count	1	times	3 sec	0 sec	0: 0 dB	
6	--	None	Play Count	1	times	3 sec	0 sec	0: 0 dB	
7		None	Play Count	1	times	3 sec	0 sec	0: 0 dB	

Event:

Webhook Watchdogs:

At current all watchdogs are programmed to send to the emails below by default, if you would like these changed, removed or other emails added to the webhook watchdog service please let support@misol.com.au know. MiSol will monitor the watchdogs and will notify the client of any faults with advice on how to resolve.

WEBHOOK NAME	WEBHOOK REASON
LOGIN ATTEMPS	MONITORS LOGIN ATTEMPTS AND IF MORE THAN 3 ATTEMPTS IN A ROW OF IN CORRECT LOGIN WIL SEND AN ALERT
TIME WATCHDOG	MONITORS THE TIME SYNCRONISATION BETWEEN NTP/RTC/LOCAL ANY DIFFERENCE OVER AN HOUR WILL SEND AN ALERT
DATABASE WATCHDOG	MONITORS THE DATABASES AND BACKUP DATABASES FOR CURRUPTION, WILL SEND AN ALERT IF ANY ABNORMALITY
SERVICE MODULE WATCHDOG	MONITORS THE HIGH LEVEL SERVICE FILES THAT RUN THE MODULAR APPS ANY ERRORS AND IT WILL SEND AN ALERT
SCRIPTS WATCHDOG	MONITORS THE HIGH LEVEL SCRIPTS FILES THAT ALSO RUN THE MODULAR APPS ANY ERRORS AND IT WILL SEND AN ALERT

CURRENT PROGRAMMED EMAIL ADDRESSES FOR THE WATCHDOG WEBHOOKS

EXAMPLE OF WHAT IS RECEIVED FROM THE TEAM ON ANY ALERTS

⏰ Time Sync Variance Alert

Hello Operations Team,

The watchdog system has detected a **critical time variance** across system clocks. At least two time sources are out of sync by more than 60 seconds for 5 consecutive minutes.

System Time	2025-06-11T12:00:00.000000
RTC Time	2025-06-11T12:00:00.000000
NTP Reference Time	2025-06-11T12:00:00.100000

🔧 Service Status Alert

Hello Operations Team,

The MiConnect System has detected a system service not not active at 2025-06-11T11:15:00Z. Please see details:

Service	app.service
Status	inactive

⚙️ Script Failure Alert

Hello Operations Team,

MiConnect detected a monitoring script has at 2025-06-11T11:10:00Z failed. Details are below:

Script	/usr/local/bin/multicast_bind.sh
Exit Code	1
Error Output	bind: address already in use

🔒 Login Failure Alert

Hello Security Team,

MiConnect has detected a failed login attempt. Details below:

Username	admin
Source IP	203.0.113.5
Timestamp	2025-06-11T11:05:00Z

🗄 Database Integrity Alert

Hello Operations Team,

The MiConnect database watchdog has detected an **integrity issue**. Please review the details below:

Database Path	/home/misol/data/maintenance.db
Integrity Status	corrupt
Error Message	Integrity check failed: page 42 is invalid

32 Other Useful Tools

Free online sound / siren generation - TEXT to SOUND - Massive Library of Already Created

Free online voice generation - TEXT to Voice- Advice use the Voice "Charlie"

Join Audio Files Together Online

Merge songs online, combine mp3 - Audio Joiner

The crossfade feature enables...

audio-joiner.com

33 Thank You from the MiSolutions Team

Thank you for investing in MiConnect — where communication meets automation.

This system isn't just another off-the-shelf product. It's the result of countless hours of development, testing, and real-world deployment experience by a team that knows what it takes to build robust, future-ready infrastructure. Every module, every menu, every API trigger was hand-built with purpose.

Your system is ready to scale, whether you're starting small with just audio playback or expanding to a full suite of signs, strobes, webhooks, CCTV, and security integrations.

We're thrilled to have you on board and proud to support your journey into smarter building and alert management. If you ever need help, ideas, or custom solutions — just reach out. We've got your back.

Welcome to the future — fast, flexible, and undeniably powerful.

— The MiSolutions Team

SERVICES

MiSolutions Group has been operating within the electrical and communications industry for over 20 years and continue to be a leader in this field today.

The backbone of your data system is crucial to your network performance that is why we test and certify every cable and every connection that we install. Our work is guaranteed for up to 25 years and our staff are provided with ongoing training to ensure they only deliver the best installation practises.
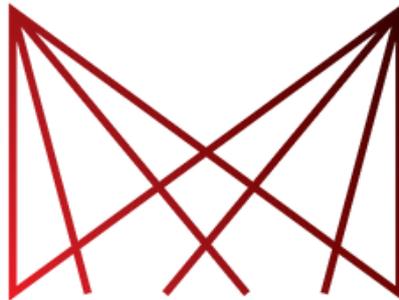
Our electrical data and cabling services include:

- **Data copper cabling systems (Cat6, Cat6A, Cat7)**
- **Fibre cabling systems**
- **Phone/telephone block cabling**
- **PA systems and commercial audio**

- **Underground/earth cabling**
- **Electrical cabling**
- **Cable support systems**
- **Wireless data systems and access points**
- **CCTV and security infrastructure**
- **MATV systems for commercial premises**
- **Communication equipment**
- **Access control infrastructure**
- **Commercial data racks**
- **UPS and power management**

MiSolution's clients include federal, state, and local government, assisted living and aged care, finance institutions, private sector schools and hospitals, commercial and industrial clients.

For all data and electrical cabling services or solutions please contact MiSolutions Group today.

MiConnect User Manual