

Discover, Monitor & Control (DMC)

User Guide for Version 1.6



SONIFEX

Audio Solutions for
AV & Broadcast Media

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Sonifex DMC

1. Introduction

Sonifex DMC is a Windows application for discovering, monitoring and controlling compatible Sonifex devices on a network.

DMC provides a central interface for:

- Discovering Sonifex devices on the network
- Managing device monitoring groups
- Monitoring device status and audio levels
- Monitoring application events and device communications
- Controlling functions such as Help and Talk

DMC runs as a Windows application and provides a browser-based user interface.

2. Installing Sonifex DMC

Sonifex DMC is supplied as a standard Windows installer.

After downloading DMC from the Sonifex website, run the Sonifex DMC setup application and follow the on-screen instructions.

During installation, the application:

- Installs Sonifex DMC in the standard Windows Program Files location
- Creates a desktop shortcut
- Creates a Start Menu shortcut
- Installs the components required for communication with supported Sonifex and Dante devices
- Installs the application icons and required Windows integration

Once installation is complete, Sonifex DMC can be launched from the Desktop or Start Menu

2.1 First Launch

The DMC user interface is accessed through a web browser. When launched, DMC runs in the background and displays a Sonifex icon in the Windows system tray. DMC automatically opens the user interface in the system default browser at:

`http://localhost:8000/`

If the browser does not open automatically, enter this address manually.

The DMC user interface can also be accessed from another computer using:

`http://<DMC-PC-IP-address>:8000/`

Remote access requires the appropriate network connectivity and firewall access to be configured

2.2 System Tray

The DMC system tray menu provides access to the application.

Available options include:

- **Open DMC** – Opens the DMC application in a web browser.
- **Exit DMC** – Closes the DMC application.

If DMC is already running, launching it again opens the existing application in a new browser tab rather than starting a second instance.

2.3 Closing DMC

DMC should be closed using the system tray controls rather than by closing the browser manually. When DMC is closed using the system tray controls, active device communications and other application processes are stopped before the application shuts down.

Connected browser sessions are notified when the application is shutting down.

3. Application Interface

The DMC application provides access to its main functions.

Main functions:

- Device Discovery
- Monitoring Configuration
- Monitoring Groups
- Device Tile Settings
- Device Monitoring
- Application Settings
- Application Event Logging

4. Device Discovery Tab

DMC can discover compatible Sonifex devices and other supported AoIP products connected to the network.

Device discovery is controlled from the Discovery tab.

4.1 Starting Device Discovery

By default, Device Discovery starts automatically and searches the selected network for supported devices.

DMC manages the discovery process automatically and prevents conflicting discovery operations while a discovery process is starting or stopping.

The discovery status is synchronised between open DMC browser windows and tabs.

Devices that have been discovered will appear as a **Device Tile**.

DMC combines information received from different device discovery mechanisms to correctly identify physical devices.

Devices providing Sonifex identification information are recognised and displayed using the appropriate device information.

4.2 Manual Device Discovery

You can manually add devices prior to them coming online. Manually added devices can subsequently be associated with information received through network discovery. This can help preemptive setups.

4.3 Stopping Device Discovery

Discovery can be stopped from the **Device Discovery** tab using the slider.

DMC completes the required discovery shutdown process before allowing a new discovery operation to begin.

4.4 Selecting Devices to Monitor

DMC provides flexible monitoring features to help manage larger systems.

Devices can be organised into monitoring groups, making it easier to monitor and manage multiple devices.

To monitor a discovered device, select the **Monitor** checkbox on the relevant **Device Tile** in the **Device Discovery** tab. The device will then be added to the **Monitored Device List** in the **Monitoring Configuration** tab (section 5).

Only devices added to the **Monitored Device List** can be accessed in **Monitor Configuration**.

4.5 Auto Monitor Feature

If you want all discovered devices to be monitored automatically rather than adding them manually, select **Enable Auto Monitor** in the Global Settings. This can help reduce setup time.

5. Monitor Configuration Tab

In the **Monitor Configuration** tab, the **Monitored Device List** is displayed on the left-hand side.

5.1 Creating a Monitoring Group

To create a monitoring group, select +, enter a name for the group and click the tick icon. Group names can contain up to 20 characters.

To create additional monitoring groups, select + and repeat the process.

5.2 Setting Monitoring Group Priorities

Groups are displayed in a defined order and can be rearranged by dragging and dropping using the menu icon as the pick-up point. The order will determine their priorities from left to right in **Device Monitoring** tab (section 7). This priority order is retained by DMC even the application is restarted or upgraded.

5.3 Adding Devices to a Monitoring Group

Devices can be added to monitoring groups by dragging and dropping them from the **Monitored Device List**. A device can be added to multiple monitoring groups, and the order of devices can be rearranged by dragging and dropping, with the chosen order reflected in the **Device Monitoring** tab.

6. Device Tile Settings Tab

You can configure the **Device Tile Settings** per device. Select the device from the left-hand **Device List**, this will show the available controls/ labels for **Device Monitoring** tiles.

6.1 Device Monitoring Tiles

The **Device Monitoring Tiles** contains icons/ labels/ controls and are available dependent on device type. Typical **Device Monitoring Tiles** provide information and icons/ labels/ controls such as:

- Help
- Talk
- On-Air
- Audio meters
- Web UI
- Device-specific status indicators

DMC provide default layouts for supported products, ensuring useful controls are available when a device is first added, reducing setup time.

6.2 Device Monitoring Tile Configuration

Select a device from the **Device List** to preview its **Device Monitoring Tiles** and configure its appearance. You can enable or disable icons, labels and controls to suit your requirements. The order of the tiles can also be changed by dragging and dropping them into the required position from left to right. The **Device Monitoring Tile** appearance can be previewed before applying the settings.

6.3 Applying Settings

Device Monitoring tile settings can be applied:

- To a single device
- To all devices of the same model

Select the appropriate option.

7. Device Monitoring Tab

Selecting the **Device Monitoring** tab displays the **monitoring group(s)**, its devices, and their configured **Device Monitoring Tiles**.

This provides a live overview of your system within the **Monitoring Groups**, allowing you to monitor device health, audio metering and status information at a glance.

Where configured, you can also respond to **Help** requests and provide **Talkback**. Configuration for this is done through the **Global Application Settings**, (sections 8.5/8.6) and **Advanced Device Settings**, (sections 9.1, 9.2 & 10).

8. Global Application Settings

Global application settings can be found at the top right-hand side of the application. Settings are retained when DMC is closed and restored when the application is started again.

8.1 Enable Audio Monitor

This will automatically select *all* discovered devices for monitoring, (see section 4.6).

8.2 Enable Monitored Device Offline Alerts (From V1.6)

When enabled, DMC alerts the user if a monitored device assigned to a Monitoring group changes from **online to offline**.

DMC provides the following indications:

- The affected Device Tile flashes with a red border.
- The Monitoring Group containing the device is highlighted.
- The main Device Monitoring tab is highlighted.
- If desktop notifications are enabled and the DMC browser tab is in the

background, a Windows desktop notification is shown.

- The browser tab title also flashes while Help or Offline alerts are active in the background.

If several monitored devices go offline at approximately the same time, DMC combines them into a single desktop notification.

Offline alerts are only generated for new online-to-offline transitions.

The offline alert remains active until the device returns online or the **Enable Monitored Device Offline Alerts** option is disabled or until browser is refreshed.

Disabling the option clears the current offline alert state. Re-enabling it starts monitoring from the current device states, so devices that are already offline will not immediately generate another alert

Devices that are already offline when DMC starts, when the option is enabled, or after the browser is refreshed do not generate a new alert.

When a device comes back online, its offline alert is cleared automatically.

8.3 Discovery Network Interface

If you have devices on multiple networks, this allows you to select the appropriate network for DMC to use.

8.4 Talkback Feature

Once configured DMC allows a Talk and Listen function, allowing a DMC operator to establish an audio session from the PC audio device with supported Sonifex devices.

Device dependant, a **Talk** Tile is made available that operates as a button. Selecting **Talk** activates the talk session. Selecting it again deactivates the session.

When switching **Talk** between devices, DMC manages the existing audio session before starting the new one.

8.5 Setting up Talkback

DMC uses the available Windows audio devices for audio.

Talk and **Listen** audio requires both **Global Application Settings** and individual **Device Audio Settings** and require selecting the following:

- Microphone Input — the microphone used when speaking.
- Speaker Output — the speaker or headphones used to hear.

From the **Global Applicationss Settings** choose a Device for Speaking (PC Mic in) from the drop-down menu.

From the **Global Applicationss Settings** choose where to play received sound (PC Speaker Out from the drop-down menu

8.6 Refresh Audio Device

If using PC audio devices with DMC then its worth noting DMC does not automatically refresh the Windows audio-device list when hardware is connected or disconnected. This helps prevent existing device selections from changing unexpectedly. Use **Refresh Audio Devices** when the Windows audio configuration has changed, then verify the selected audio devices before starting **Talk**. The audio device list cannot be refreshed while a **Talk** session is active. End the active **Talk** session before refreshing the audio devices.

8.7 Global Help Active → AVN-GPIO Device

DMC can provide a physical indication when one or more devices are requesting Help, using a separately purchased AVN-GPIO device.

If an AVN-GPIO device is available, select it to receive the global Help indication and configure the required physical output. When any device has an active Help request, DMC activates the configured output on the selected AVN-GPIO device. When no Help requests are active, the output is deactivated.

The selected AVN-GPIO device must be online and connected to the same network as DMC.

DMC automatically manages the GPIO override state required to control the selected output.

8.8 GPIO Physical Output Port

Select the physical GPIO output port on the AVN-GPIO device that will be used for the global Help indication.

DMC supports physical GPIO ports 1–10 on a connected AVN-GPIO device. It can monitor the port type, override state and output state through Ember+.

Only configured output ports can be controlled by DMC, and remote control is available only while the AVN-GPIO device is online and reachable.

8.9 Desktop Notifications

Desktop notifications can alert the operator to **Help** requests while the DMC browser tab is in the background or minimised, for this, allow notifications in the browser, then **Enable Desktop Notifications** in **Global Application Settings**.

Desktop notification behaviour is controlled by DMC, DMC asks the browser for notification permission to allow the desktop notification.

Multiple DMC tabs or windows in the same browser share the preference, while different browsers can have different settings.

If Talk or Listen information popups have previously been hidden, the notification preferences can be reset from **Global Application Settings**.

9. Advanced Device Settings

Found back in the **Device Discovery** tab, settings for individual devices is found at the top right of the **Device Tile**. If no advanced setting is available the settings icon is greyed out. For supported devices, the settings icon is enabled.

This allows configuration for receiving/sending audio from a virtual sound card, set **Help** – via VGPIO assignment, and link a device to a Sonifex AVN-GPIO device (sold separately).

9.1 Receive Audio From (Virtual Sound Card Rx):

Select your chosen speaking device from the drop-down menu.

9.2 Send Audio To (Virtual Sound Card Tx):

Select your chosen listening device from the drop-down menu.

9.3 VGPIO Select for Help

On supported devices, a VGPIO can be used as the source of the device's Help request.

Configure the required VGPIO as an **OUTPUT** on the device, then select that VGPIO in DMC as the Help source.

When the selected VGPIO becomes active, DMC treats the device as requesting Help. When the VGPIO becomes inactive, the Help request is cleared.

9.4 VGPIO Detail

DMC supports VGPIO ports **1–10** on supported devices.

DMC monitors the configured type and current state of each available VGPIO. When selecting a VGPIO for Help, only VGPIOs configured as outputs are available.

The device Help status is determined from the selected VGPIO and its current state.

9.5 Link to AVN-GPIO Device:

A monitored device's Help status can be linked to a physical output on an AVN-GPIO device. Select the AVN-GPIO device that should respond to the monitored device's Help request, and select the physical output to be controlled.

When the monitored device requests Help, DMC activates the assigned physical output on the selected AVN-GPIO device. When the Help request clears, the output is deactivated.

The AVN-GPIO device must be online and connected to the same network as DMC.

DMC automatically manages the GPIO override state required to control the output.

9.6 GPIO Physical Output Port:

Select the physical GPIO output port on the linked AVN-GPIO device that should be activated when the monitored device requests Help. Only configured output ports are available for remote control.

10. APP Lock

App Lock is available when the **Monitoring Configuration** contains at least one **Monitoring Group** with monitored devices. It prevents accidental changes to the DMC configuration and is not intended as a security feature.

When App Lock is enabled, DMC switches to the **Device Monitoring** tab and prevents access to **Device Discovery**, **Monitoring Configuration**, **Device Tiles Settings** and **Global Application Settings**.

Select the lock control again to restore normal access.

11. APP Events Log

DMC provides an **App Events Log** for viewing application events and status information. The log displays recent application events and is updated as new events occur. The most recent 200 entries are retained in the displayed log.

11.1 Reviewing Earlier Events

The log automatically follows new entries while the view is positioned at the bottom. The log panel can be expanded or collapsed. The selected expanded/collapsed state is retained when restarted or upgraded.

12. Multiple Browser Windows

Multiple DMC browser windows or tabs can connect to the same running application.

Application state changes and settings are synchronised between connected sessions where applicable. But desktop-notification and popup preferences are browser-local.

13. Configuration Persistence

DMC automatically saves its configuration and restores it when the application is restarted.

This prevents configured devices, groups and monitoring layouts from being lost between sessions.

The following information is retained:

- Application settings
- Discovered and configured devices
- Device-specific settings
- Groups
- Group ordering
- Device Tile Settings
- Help-to-GPIO configuration
- Audio device assignments
- Talk/Listen audio device assignments
- Per-device VGPIO and AVN-GPIO mappings

14. Supported Devices

DMC supports a range of Sonifex devices and exposes different monitoring and control functions depending on the device model. See the **Device Tile Matrix**.

Discoverable & Advanced Monitoring Devices:

'AVN-CU1': 'Dante Commentary',
 'AVN-CU2': 'Dante Commentary',
 'AVN-CU4': 'Dante Commentary',
 'AVN-CU2-RAV': 'RAVENNA Commentary',
 'AVN-CU4-RAV': 'RAVENNA Commentary',
 'AVN-M8R': 'Mic/Line to Dante Interface',
 'RM-X-64-DNT': 'Dante Reference Monitor',
 'RM-X-64-RAV': 'RAVENNA Reference Monitor'

Discoverable Devices:

'AVN-GMCS': 'PTP Grandmaster Clock',
 'AVN-GMCOS': 'PTP Grandmaster Clock',
 'AVN-DIO01': 'Dante to Analogue Interface',
 'AVN-DIO02': 'Analogue to Dante Interface',
 'AVN-DIO03': 'Dante to Headphone Interface',
 'AVN-DIO04': 'Analogue Dante Interface',
 'AVN-DIO05': 'Analogue Dante Interface',
 'AVN-DIO06': 'AES3 Dante Interface',
 'AVN-DIO07': 'AES3id Dante Interface',
 'AVN-DIO08': 'AES3 Dante Interface',
 'AVN-DIO09': 'Microphone to Dante Interface',
 'AVN-GPIO': 'GPIO LAN Transceiver',

'AVN-DIO10': 'Dante SDI Embedder & De-Embedder',
 'AVN-DIO10-12G': 'Dante SDI Embedder & De-Embedder',
 'AVN-DIO10-RAV': 'RAVENNA SDI Embedder & De-Embedder',
 'AVN-DIO12': 'Microphone to Dante Interface',
 'AVN-DIO14': 'Analogue Dante Interface',
 'AVN-DIO15': 'Analogue to Dante Interface',
 'AVN-DIO16': 'Dante to Analogue Interface',
 'AVN-DIO19': 'Dante AES3 Interface',
 'AVN-DIO20': 'MADI AES3 Dante Interface',

'AVN-AIO4': 'Analogue Dante Interface',
 'AVN-AIO8': 'Analogue Dante Interface',
 'AVN-AIO8R': 'Analogue Dante Interface',
 'AVN-AIO8-DNT': 'Analogue Dante Interface',
 'AVN-AIO8-RAV': 'Analogue RAVENNA Interface',
 'AVN-AIO8-T-DNT': 'Analogue Dante Interface',
 'AVN-AIO8-T-RAV': 'Analogue RAVENNA Interface',

'AVN-AI16': 'Analogue Dante Interface',
 'AVN-AI16R': 'Analogue Dante Interface',
 'AVN-AI16-DNT': 'Analogue Dante Interface',
 'AVN-AI16-RAV': 'Analogue RAVENNA Interface',
 'AVN-AI16-T-DNT': 'Analogue Dante Interface',
 'AVN-AI16-T-RAV': 'Analogue RAVENNA Interface',

'AVN-AO16': 'Analogue Dante Interface',
 'AVN-AO16R': 'Analogue Dante Interface',
 'AVN-AO16-DNT': 'Analogue Dante Interface',
 'AVN-AO16-RAV': 'Analogue RAVENNA Interface',
 'AVN-AO16-T-DNT': 'Analogue Dante Interface',
 'AVN-AO16-T-RAV': 'Analogue RAVENNA Interface',

'AVN-AESIO8': 'AES3 Dante Interface',
 'AVN-AESIO8R': 'AES3 Dante Interface',
 'AVN-AESIO8-DNT': 'AES3 Dante Interface',
 'AVN-AESIO8-RAV': 'AES3 RAVENNA Interface',
 'AVN-AESIO8-T-DNT': 'AES3 Dante Interface',
 'AVN-AESIO8-T-RAV': 'AES3 RAVENNA Interface',

'AVN-AH8': 'Dante to Headphone Interface'

'AVN-FM-DNT': 'FM to Dante Interface',
 'AVN-FM16-DNT': 'FM to Dante Interface',
 'AVN-FM24-DNT': 'FM to Dante Interface',
 'AVN-FM32-DNT': 'FM to Dante Interface',

'AVN-PXH12': 'AES67 Mix Monitor',

'AVN-PA8': 'Analogue AES67 Mix Engine',
 'AVN-PA8D': 'Analogue AES67 Mix Engine',
 'AVN-PD8': 'Digital AES67 Mix Engine',
 'AVN-PD8D': 'Digital AES67 Mix Engine',
 'AVN-PM8': 'Mic/Line AES67 Mix Engine',
 'AVN-PM8D': 'Mic/Line AES67 Mix Engine',

'AVN-HA1': 'Analogue Headphone Amp',
 'AVN-HD1': 'Digital Headphone Amp',

'AVN-TB6': 'Talkback Intercom',
 'AVN-TB6D': 'Talkback Intercom',
 'AVN-TB10AR': 'Talkback Intercom',
 'AVN-TB20AR': 'Talkback Intercom',
 'AVN-TB20AD': 'Talkback Intercom',

15. Software & System Requirements

Supported Windows versions:

- Sonifex DMC is supported on the following 64-bit Windows desktop operating systems:
- Windows 10 64-bit, version 22H2 or later
- Windows 11 64-bit
- Windows Server editions are not currently supported or validated.

Minimum Windows version:

- Windows 10 64-bit, version 22H2
- Earlier Windows 10 releases, Windows 8.1, Windows 7, and all 32-bit Windows editions are not supported.

32-bit / 64-bit requirements:

- 64-bit Windows is required.
- The Sonifex DMC backend, MSI installer, bundled Dante Discovery component, and supporting libraries are built and packaged for x64 Windows.
- 32-bit Windows PCs are not supported.
- A 32-bit build is not supplied currently.

Supported browsers:

- DMC opens its user interface in the system default browser at:
- <http://localhost:8000>

Supported browsers:

- Microsoft Edge — current stable release
- Google Chrome — current stable release
- Mozilla Firefox — current stable release

Recommended browser:

- Microsoft Edge or Google Chrome, current stable release.
- Internet Explorer is not supported. Browser access requires JavaScript and WebSocket support.

Network requirements

- The DMC PC and Sonifex devices must be connected to the same routed network
- Use a wired Ethernet connection for the DMC PC and Dante network. Wi-Fi is not recommended for operational Dante audio or device monitoring.
- The selected DMC network interface must have IPv4 connectivity to the Sonifex devices.
- Devices must respond to ICMP echo requests (ping) if DMC online/offline health monitoring is required.
- Multicast DNS / DNS-SD discovery traffic must be permitted on the Dante/device network.
- If devices are separated by VLANs, configure multicast and mDNS gateway/reflector services as required by the network design.

Required Dante components/services

- The DMC installer installs the following shared Dante/Audinate components:
 - Dante Discovery
 - Dante Controller Monitoring Service (ConMon)
- These components are installed as shared, permanent components and may remain installed when DMC is uninstalled.
- For DMC Talk and Listen functions:

- A Dante Virtual Soundcard or another compatible Dante-enabled Windows audio interface must be installed and configured separately.
- The required Dante receive and transmit audio devices must appear in Windows Sound device settings.
- The operator PC microphone input and speaker/headphone output must be configured in DMC App Settings.
- Per-device Dante virtual soundcard receive/transmit mappings must be configured in the DMC Discovery device settings panel.

Required firewall/network configuration

Allow the DMC application through Windows Defender Firewall on the operational network profile.

DMC PC inbound ports

Port	Protocol	Purpose
8000	TCP	DMC web user interface and REST API
9001	TCP/Websocket	Secondary Audio

Ports 8000 and 9001 are required only when opening DMC from another PC. Local use through <http://localhost:8000/> does not require inbound LAN access.

DMC PC outbound device communications

Port	Protocol	Purpose
8081	TCP / Websocket	Secondary device status and audio/control websocket connection
9000	TCP	Ember+ VGPIO and AVN-GPIO communication
5353	UDP Multicast	mDNS / DNS-SD device discovery
ICMP	ICMP Echo	Device health ad online/offline monitoring

Network equipment must permit the required unicast, multicast, and broadcast/discovery traffic between the DMC PC and Sonifex devices. Do not block device-to-PC responses for the above connections.

PC specification

Minimum specification

- Suitable for small systems with limited monitored devices:
- 64-bit dual-core CPU, 2 GHz or faster
- 4 GB RAM
- 1 GB free disk space for DMC, logs, settings, and Dante components
- One 1 GbE Ethernet adapter
- Windows 10 64-bit version 22H2
- Current supported browser

Recommended specification

- Recommended for normal operational use, multiple monitored devices, device discovery, WebSocket status updates, and Talk/Listen operation:
- 64-bit quad-core Intel Core i5 / AMD Ryzen 5 class CPU or better
- 8 GB RAM or more
- 2 GB or more free disk space
- Dedicated 1 GbE Ethernet adapter connected to the Dante/device network
- Wired network connection; do not use Wi-Fi for Dante audio operation

- Windows 11 64-bit, fully patched
- Current Microsoft Edge or Google Chrome release

Required permissions for installation and operation

Installation

- Local Administrator permissions are required to install or upgrade DMC.
- Administrator approval may be required to install the bundled Dante components.
- Administrator permissions may be required to create or approve Windows Firewall rules.

Normal operation

- DMC normally runs as the signed-in standard Windows user.
- The user must be permitted to access the selected network adapter and the required Windows audio devices.
- If firewall rules have not been preconfigured by IT, an administrator must approve the firewall prompt or create the required rules.
- Network switches, VLAN configuration, multicast configuration, and firewall changes must be performed by authorized network administrators.

Operational notes

- DMC stores user settings, device state, groups, tile settings, and log files under:
- %LOCALAPPDATA%\Sonifex\DMC\
- DMC can be accessed locally at: `http://localhost:8000/`
- For remote browser access, use:
- `http://<DMC-PC-IP-address>:8000/`

and ensure TCP ports 8000 and 9001 are allowed to the DMC PC.

Remote Access

DMC currently serves HTTP and WebSocket connections without application login/authentication or HTTPS/TLS. Restrict remote access to trusted LANs/VLANs.

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