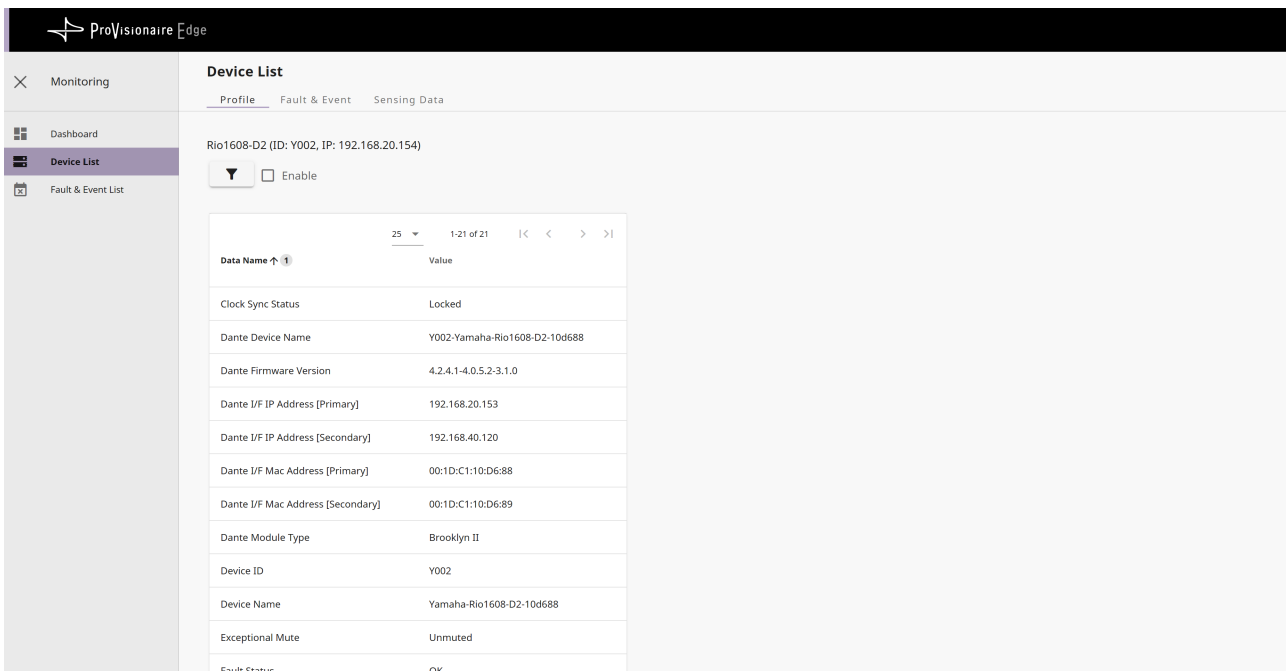


ProVisionaire Edge

V1.2 User Guide



The screenshot displays the ProVisionaire Edge web interface. The left sidebar contains navigation options: Monitoring, Dashboard, Device List (selected), and Fault & Event List. The main content area is titled "Device List" and shows details for a "Rio1608-D2 (ID: Y002, IP: 192.168.20.154)". Below the device name, there is a dropdown menu and an "Enable" checkbox. A table lists various device parameters and their values.

Data Name ↑ 1	Value
Clock Sync Status	Locked
Dante Device Name	Y002-Yamaha-Rio1608-D2-10d688
Dante Firmware Version	4.2.4.1-4.0.5.2-3.1.0
Dante I/F IP Address [Primary]	192.168.20.153
Dante I/F IP Address [Secondary]	192.168.40.120
Dante I/F Mac Address [Primary]	00:1D:C1:10:D6:88
Dante I/F Mac Address [Secondary]	00:1D:C1:10:D6:89
Dante Module Type	Brooklyn II
Device ID	Y002
Device Name	Yamaha-Rio1608-D2-10d688
Exceptional Mute	Unmuted
Fault Status	OK

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1. Introduction

Thank you for downloading Yamaha ProVisionaire Edge.

ProVisionaire Edge is a software program for Windows that is used to collect logs and status information from target devices on a local network and to monitor the information on a browser.

This document explains how to use ProVisionaire Edge (as of V1.2). For devices supported by ProVisionaire Edge, refer to the compatibility table on the ProVisionaire Edge download page.

1.1. Note

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The latest application software can be downloaded from the Yamaha Pro Audio website.
<https://www.yamahaproaudio.com/>

1.2. What you can do using ProVisionaire Edge

When ProVisionaire Edge is installed, the following two software programs are installed.

The functions of each software program are outlined below.

ProVisionaire Edge

You can view the information and status of registered devices as well as fault information and operation log information.

ProVisionaire Edge Setting

Configure the network interface and register target devices.

You can also check the status of each server service that makes up the operation of ProVisionaire Edge.

NOTE

ProVisionaire Edge does not display status or fault information in real time.
When updating information, you need to manually refresh (reload) the page.

1.3. Operating requirements of the software

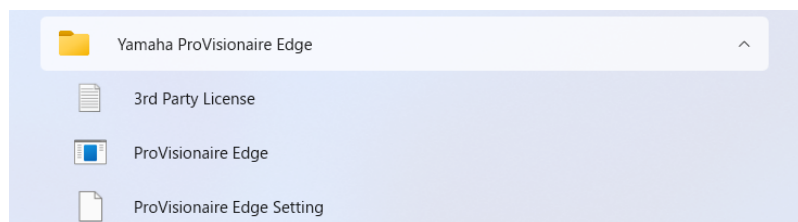
- OS : Windows 11 / Windows 10 (64-bit only)
- CPU : Intel Core i or higher
- Memory : 4 GB or more
- HDD/SSD : 2.2 GB or more
- Other : Ethernet (1000BASE-T or higher) or Wi-Fi equipped

1.4. Installation procedures

1. Download the ProVisionaire Edge installation file to your PC.
The ProVisionaire product page on the Yamaha Pro Audio site contains the link.
<https://www.yamahaproaudio.com/>
2. Extract the zip file to a location of your choice.
3. Double-click the "Install_PVEdge.exe" file in the folder.
4. Follow the installer instructions to install the application.

1.5. Starting method

Start the software from the start menu of your computer.



2. Basic process

2.1. Network settings from ProVisionaire Edge Setting

After installing ProVisionaire Edge, start ProVisionaire Edge Setting from the start menu of your computer and configure the network interface and devices to be monitored.

For details on ProVisionaire Edge Setting, refer to “[ProVisionaire Edge Setting](#)” window described below.

2.1.1. Configuring network interfaces

Network Interfaces for Device Communication				
Select one or more network interfaces to communicate with devices.				
No.	Network Interface	IP	MAC	Delete
1	Intel(R) Ethernet Connection (16) I2...	0.0.0.0/0.0.0.0	B8:20:8E:78:72:90	
2	Selected interface not found.	0.0.0.0/0.0.0.0	58:27:8C:BE:01:FC	
3	Bluetooth Device (Personal Area Net...	0.0.0.0/0.0.0.0	4C:5F:70:0E:61:D0	

1. Set the IP address of the network interface on which to run ProVisionaire Edge so that it is in the same subnetwork as the devices to be monitored.
2. In the ProVisionaire Edge Setting monitoring window, select one or more network interfaces to be used for communication with the devices.
You can add a network interface by clicking the [Add Interface] button.
3. Click the [Save] button in the upper right corner of the screen to save your settings.

NOTE

- **Maximum number of network interfaces**

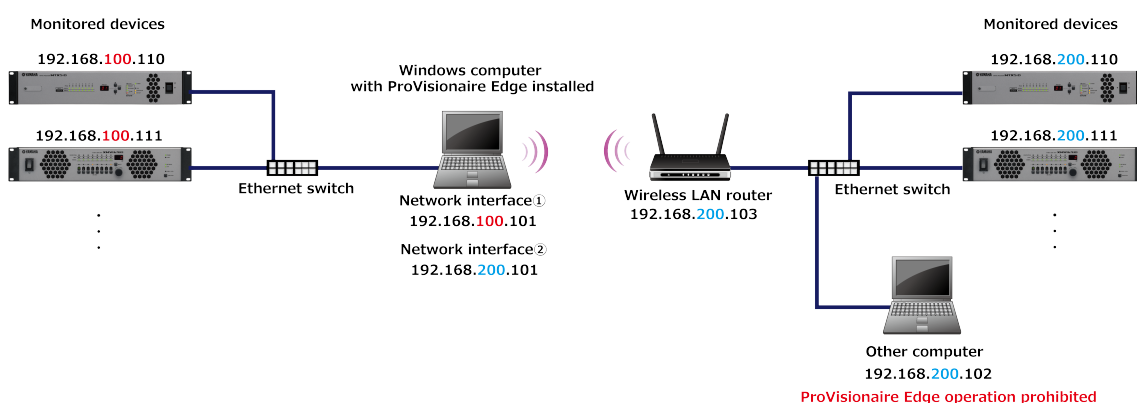
ProVisionaire Edge can communicate with devices via up to eight network interfaces.

- **IP address allocation restrictions for network interfaces**

In ProVisionaire Edge, assign only one IP address to each network interface. If you want to assign multiple IP addresses to monitor multiple subnets, you will need to add additional network interfaces to your computer, one for each IP address.

- **Number of PCs running ProVisionaire Edge**

Only one computer can start and run ProVisionaire Edge on each subnet. If ProVisionaire Edge is running on multiple computers, communication may not be possible between other ProVisionaire applications and devices. Also, it cannot be used together with ProVisionaire Monitoring Service.



2.1.2. Registering devices

Register the devices you want to monitor with ProVisionaire Edge.

1. In ProVisionaire Edge, devices on the selected network interface are automatically detected. Therefore, in principle, there is no need to manually register devices in ProVisionaire Edge Setting.

NOTE

Automatically-registered devices will not be displayed in the “Manual Device Registration” list on the ProVisionaire Edge Setting monitoring screen.

Manual Device Registration
 ProVisionaire Edge discovers all compatible devices in LANs through the selected network interfaces and automatically starts monitoring and logging. However, you need to register the targeted devices manually in the case(s):

- If you need to monitor the devices in the other network segment.
- If you need to monitor the devices which don't support automatic discovery, e.g. CTL-DM7.

No.	IP	Device type	Model	Delete
1	0 : 0 : 0 : 0	Power Amplifiers	XMV4140	<input type="button" value="Delete"/>

NOTE

The following cases will not be automatically detected. Manually register such devices in “Manual Device Registration” on the ProVisionaire Edge Setting monitoring screen.

- When monitoring a device on another network segment
- When monitoring the following models, which do not support automatic discovery (as of ProVisionaire Edge V1.2)
 - DM7 Control
 - DM3 Standard (when connecting two or more devices)

For the latest supported devices and firmware versions, refer to the compatibility table on the ProVisionaire Edge download page.

2. When you have manually registered a device, click the [Save] button in the upper right corner of the screen to save your settings.

Supported devices (as of ProVisionaire Edge V1.2)

Device name	Connector	IP address	IP address setting method
DM7 Series *1	NETWORK connector	Any	SETUP → NETWORK → FOR MIXER CONTROL
DM3 Series *2	NETWORK connector	Any	SETUP → NETWORK → FOR MIXER CONTROL
RIVAGE PM Series (console, DSP) *3	NETWORK [PC] connector	192.168.53.* (fixed)	The address cannot be changed.
CL/QL Series *4	NETWORK connector	Any	SETUP → NETWORK → FOR MIXER CONTROL
Rio-D2 Series	Dante Primary connector	Any	SETUP → IP ADDRESS
DME7 *4	NETWORK connector	Any	Settings → IP Settings → DME Control Port
MRX7-D, MTX5-D	Dante Primary connector	Any	Set the address using a UNIT ID and DIP switch (192.168.0.xxx). Alternatively, you can set any address using MTX-MRX Editor.
MTX3 *4	NETWORK connector	Any	Set the address using a UNIT ID and DIP switch (192.168.0.xxx). Alternatively, you can set any address using MTX-MRX Editor.
PC-D Series	NETWORK connector	Any	NETWORK → CONTROL
XMV Series *4	NETWORK connector	Any	Set the address using a UNIT ID and DIP switch (192.168.0.xxx). Alternatively, you can set any address using Amp Editor.
XMV-D Series	Dante Primary connector	Any	Set the address using a UNIT ID (192.168.0.xxx). Alternatively, you can set any address using Amp Editor.
NEXO NXAMPmk2 Series *5	Expansion slot connector	Any	REMOTE CONTROL SETTINGS
DZR/DXS-D Series	Dante Primary connector	Any	UTILITY → NETWORK

*1 DM7 Control is not automatically detected. Specify the IP address using Manual IP.

*2 When connecting two or more DM3 Standard units, specify the IP address using Manual IP.

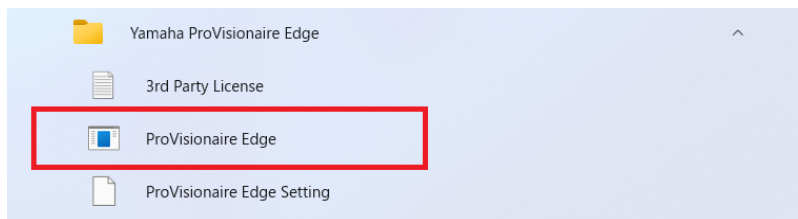
*3 To avoid problems with control communications that use the NETWORK [PC] connector of the RIVAGE PM series, we recommend using a network interface dedicated to the RIVAGE PM series. Connect other devices to a different network interface.

*4 For devices connected via NETWORK connectors, we recommend using a network interface separate from the Dante network, wherever possible. This measure can avoid placing a communication load on the NETWORK connector. Connect the devices connected via Dante connectors to a different network interface.

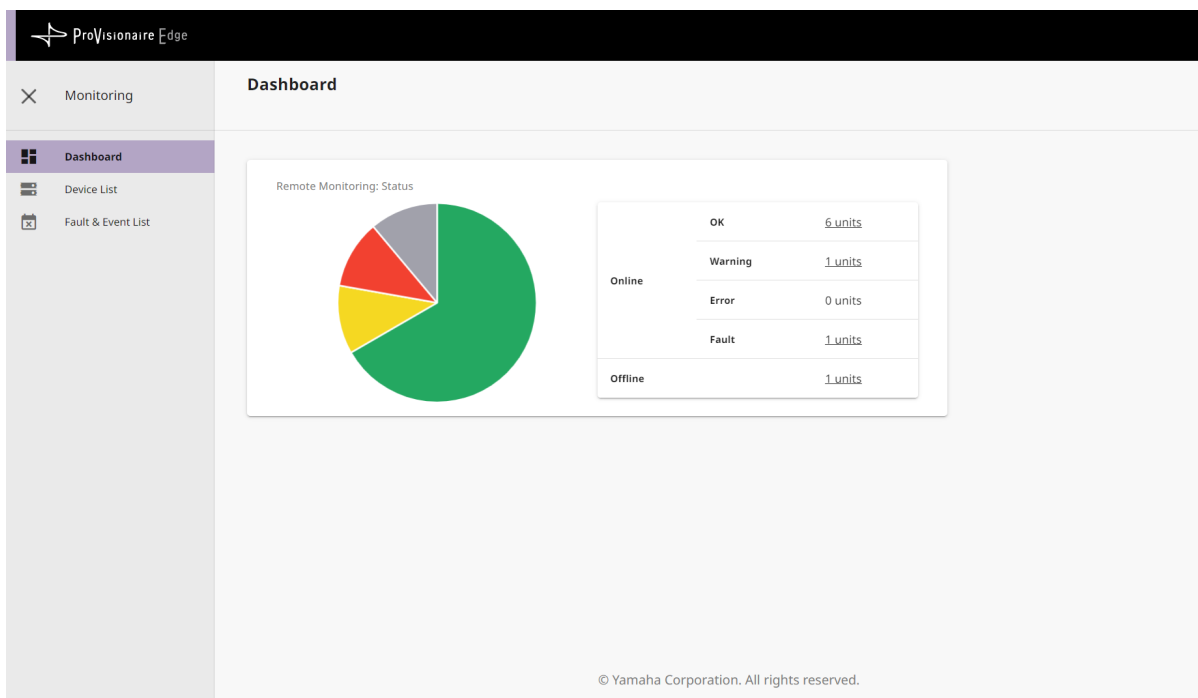
*5 When monitoring the NXAMPmkII series, use the NXRM104 or NXAE104 card.

2.2. Starting device monitoring

1. Connect the devices you want to monitor to your computer via a network.
2. Start ProVisionaire Edge from the start menu of your computer.



3. ProVisionaire Edge will start on your browser. Start monitoring devices.
For more information on device monitoring, refer to ["ProVisionaire Edge" monitoring window](#) described later.



3. Screen structure

3.1. “ProVisionaire Edge Setting” window

The “ProVisionaire Edge Setting” window allows you to configure ProVisionaire Edge.

To open this screen, select the Windows [Start] menu → [Yamaha ProVisionaire Edge] → [ProVisionaire Edge Setting].

3.1.1. Monitoring screen

Configure the network interface and register target devices.

The screenshot shows the ProVisionaire Edge Monitoring settings window. It features a sidebar with 'Settings', 'Monitoring', and 'About' options. The main content area is titled 'Monitoring' and includes a 'Save' button (1). Below this is the 'Network Interfaces for Device Communication' section (2), which contains a table of network interfaces and an 'Add Interface' button (3). The table has columns for 'No.', 'Network Interface', 'IP', 'MAC', and 'Delete'. The first entry shows 'Intel(R) Ethernet Connection (16) I2...' with IP '0.0.0.0/0.0.0.0' and MAC 'B8:20:8E:78:72:90'. Below this is the 'Manual Device Registration' section (4), which includes a 'Register Device' button (5) and a table for device registration. The table has columns for 'No.', 'IP', 'Device type', 'Model', and 'Delete'. The first entry shows IP '0 : 0 : 0 : 0', 'Power Amplifiers' as the device type, and 'XMV4140' as the model. Further down are sections for 'Date Time Display Format' (6) with a dropdown set to 'YYYY/MM/DD hh:mm:ss' and a sample '2024/04/26 17:52:31', 'Database Size Limit' (7) with a slider set to 'About 1 GB', an 'Advanced' section (8) with a 'TCP port number for ProVisionaire Edge HTTP server (default value : 50081)' input field set to '50081', and a 'TCP port number with which ProVisionaire Edge collects IoT data from devices (default value : 50080)' input field set to '50080' (9).

1 [Save] button

The settings are reflected in ProVisionaire Edge.

2 [Network Interfaces for Device Communication]

Select the network interface to be used for obtaining device operation information.

3 [Add Interface] button

Each time you click this button, an interface is added.

4 [Manual Device Registration]

When monitoring a device that is in a different network segment than ProVisionaire Edge or a device that does not support automatic discovery, specify the IP address of the device and register it as a monitoring target.

5 [Register Device] button

Each time you click it, a device is added. Set the IP address of the device on the network and the target model.

6 [Date Time Display Format]

Specify the display time format used in the [Fault & Event List].

7 [Database Size Limit]

When the database size exceeds the specified size, the oldest data will be automatically deleted.

Advanced settings**8 [TCP port number for ProVisionaire Edge HTTP server (default value: 50081)]**

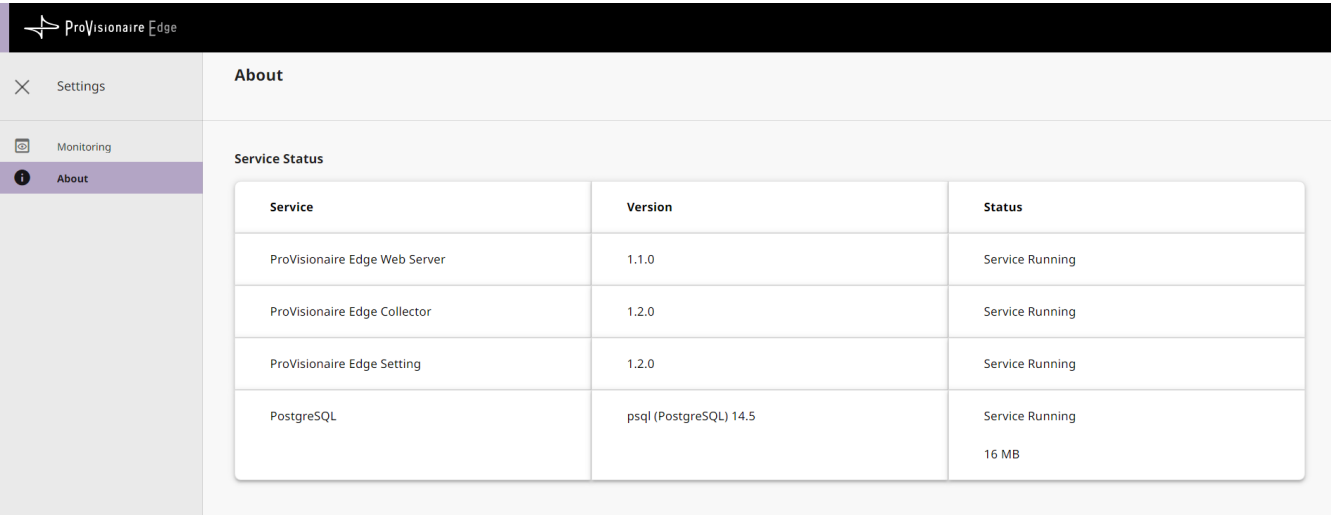
Set a TCP port number through which to pass monitoring information to other computers.
When you change the TCP port number, change the Windows firewall settings as well.

9 [TCP port number with which ProVisionaire Edge collects IoT data from devices (default value: 50080)]

Set a TCP port number through which to collect monitoring information.
When you change the TCP port number, change the Windows firewall settings as well.

3.1.2. About screen

You can check the statuses of the server services that configure the operation of ProVisionaire Edge.



The screenshot shows the 'About' screen of the ProVisionaire Edge application. The left sidebar contains navigation options: Settings, Monitoring, and About (selected). The main content area is titled 'About' and displays a 'Service Status' table.

Service	Version	Status
ProVisionaire Edge Web Server	1.1.0	Service Running
ProVisionaire Edge Collector	1.2.0	Service Running
ProVisionaire Edge Setting	1.2.0	Service Running
PostgreSQL	psql (PostgreSQL) 14.5	Service Running 16 MB

3.2. “ProVisionaire Edge” monitoring window

The “ProVisionaire Edge” monitoring window allows you to monitor the operating statuses of supported devices with ProVisionaire Edge.

To open this screen, select the Windows [Start] menu → [Yamaha ProVisionaire Edge] → [ProVisionaire Edge].

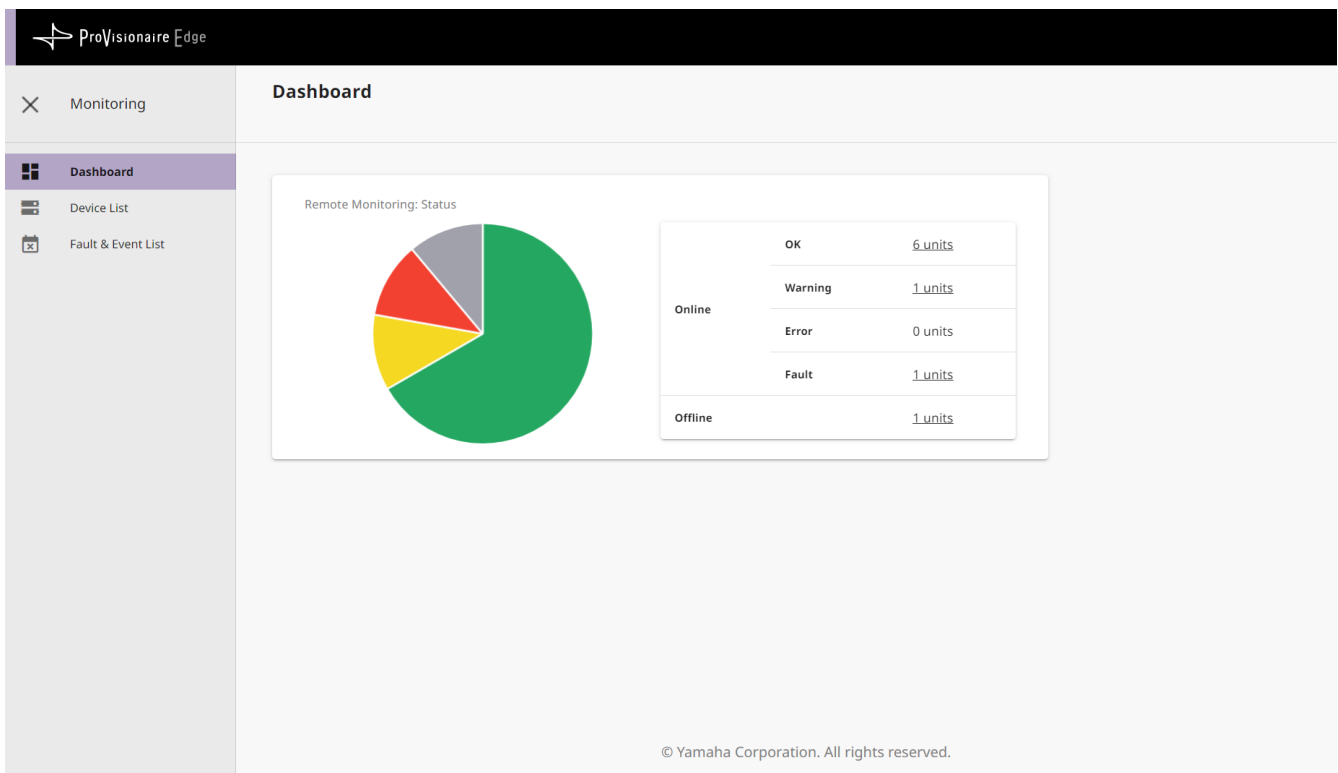
NOTE

To display the latest state, refresh (reload) the page in your browser.

3.2.1. Dashboard screen

This screen displays the overall device statuses (OK, Warning, Error, or Fault).

- OK : No abnormalities
- Warning : Automatic avoidance, prevention, protection, or precursor detection by devices
- Error : Temporary malfunction (cause: incorrect settings, misoperation, incorrect wiring, incorrect management, etc.)
- Fault : Unrecoverable malfunction (cause: hardware failure, etc.)



3.2.2. Device List screen

This screen displays the device operation information collected by ProVisionaire Edge.

Detail	Model ↑ 1	ID	IP Address	Firmware Version	Online/Offline	Status	Identify
	DME7	2	192.168.100.58	R1.20c	Online	Warning	
	DXS15XLFD	01	192.168.100.4	R1.5.0a3	Online	OK	
	DZR15-D	01	192.168.100.180	R1.5.0a3	Online	OK	
	MRX7-D	013	192.168.0.19	4.1.0	Offline	OK	
	MRX7-D	001	192.168.100.198	4.2.0	Online	OK	
	MTX3	003	192.168.0.3	4.1.0	Online	Fault	
	MTX5-D	002	192.168.0.215	4.1.0	Online	OK	
	XMV4140-D	057	192.168.100.245	4.2.0	Online	OK	
	XMV8140	00E	192.168.0.14	4.1.0	Online	OK	

1 [Filter] button

The filter settings screen is displayed.

2 [Enable] checkmark

Select this box to enable the filter.

3 Device List

4 [Detail] button

Detailed device information is displayed.

Data Name ↑ 1	Value
Clock Sync Status	Locked
Dante Device Name	Y002-Yamaha-DME7-26a554
Dante Firmware Version	4.2.1.2-1.1.0.26-3.1.0
Dante I/F IP Address [Primary]	192.168.100.217
Dante I/F IP Address [Secondary]	172.31.32.54
Dante I/F Mac Address [Primary]	00:A0:DE:26:A5:54
Dante I/F Mac Address [Secondary]	00:A0:DE:26:A5:55
Dante Module Type	Dante-HY
Device ID	2

- **5 Model**
Model name of device
- **6 ID**
UNIT ID of device
- **7 IP Address**
IP address of device
- **8 Firmware Version**
MAIN firmware version of device
- **9 Online/Offline**
Device connection status (Online/Offline)
- **10 Status**
Device status (OK/Warning/Error/Fault)
- **11 [Identify] button**
When you click here, the device indicator flashes for a few seconds.

12 [Offline Devices] button
Only offline devices are displayed in the list.

13 [Error Devices] button
Only devices with an error are displayed in the list.

3.2.3. Fault & Event List screen

This screen displays a list of information on the faults and events that have occurred on all the monitored devices.

Model	ID	Date/Time	Severity	Event Type	Status	Count	Message
DME7	2	2024/03/06 07:49:06	OK	IP Address Assigned (AutoIP) [Device Control Port]	Momentary	1	IP address is assigned (AutoIP) to the network interface.
DME7	2	2024/03/07 09:33:41	OK	Time Synchronized	Momentary	1	Date and time is synchronized.
DME7	2	2024/04/12 07:03:01	OK	IP Address Assigned [DME Control Port]	Momentary	1	IP address is assigned to the network interface.
DME7	2	2024/03/06 07:49:06	Error	Leader W/C Unlock	Resolved	1	Wrong word clock detected on leader word clock source.
DME7	2	2024/03/07 07:51:41	Error	Leader W/C Unlock	Resolved	1	Wrong word clock detected on leader word clock source.
DME7	2	2024/03/07 07:51:46	Warning	No Dante Connection [1]	Occurred	1	No network is connected to the Dante port. Please check the Dante connection.
DME7	2	2024/04/12 07:03:01	OK	IP Address Assigned [Device Control Port]	Momentary	1	IP address is assigned to the network interface.
DME7	2	2024/04/12 07:03:01	Error	Leader W/C Unlock	Occurred	1	Wrong word clock detected on leader word clock source.
DME7	2	2024/04/12 07:03:11	Warning	Dante Secondary Error	Occurred	1	The Dante secondary port is not functioning.
DME7	2	2024/03/06 07:49:06	OK	IP Address Assigned (AutoIP) [to Dante Module]	Momentary	1	IP address is assigned (AutoIP) to the network interface.
DME7	2	2024/03/07 07:51:41	Error	Leader W/C Unlock	Occurred	1	Wrong word clock detected on leader word clock source.
DME7	2	2024/03/07 07:51:41	OK	IP Address Assigned [DME Control Port]	Momentary	1	IP address is assigned to the network interface.
DME7	2	2024/03/07 07:51:41	OK	IP Address Assigned (AutoIP) [Device Control Port]	Momentary	1	IP address is assigned (AutoIP) to the network interface.
DME7	2	2024/03/07 07:51:41	OK	IP Address Assigned (AutoIP) [to Dante Module]	Momentary	1	IP address is assigned (AutoIP) to the network interface.

1 Filter button

The filter settings screen is displayed.

2 [Enable] checkmark

Select this box to enable the filter.

3 Fault & Event List

- **4 Model**
Model name of device
- **5 ID**
UNIT ID of device
- **6 Date/Time**
Date and time when the fault or event occurred
- **7 Severity**
Severity of the fault or event that occurred
 - OK : No abnormalities
 - Warning : Automatic avoidance, prevention, protection, or precursor detection by devices
 - Error : Temporary malfunction (cause: incorrect settings, misoperation, incorrect wiring, incorrect management, etc.)
 - Fault : Unrecoverable malfunction (cause: hardware failure, etc.)
- **8 Event Type**
Type of event that occurred

- **9 Status**

Type of fault or event that occurred

- Momentary : Event occurrence
- Occurred : Transition to a faulty state
- Resolved : Transition to a fault resolved state

- **10 Count**

Number of times that the same fault or event occurred before the next fault or event occurred

- **11 Message**

Detailed information about the fault that occurred

12 [Unresolved] button

Only faulty devices whose fault is unresolved are displayed.

13 [Clear All] button

All logs within ProVisionaire Edge are cleared. A screen appears asking you to confirm whether to clear the logs.

4. Troubleshooting

Problem	Cause	Action
The device exists on the network, but cannot be found by ProVisionaire Edge.	The device may not be registered because the device model does not support automatic registration.	Manually register the device in “Manual Device Registration” in ProVisionaire Edge Setting. Models that do not support automatic registration (as of ProVisionaire Edge v1.2) <ul style="list-style-type: none"> · DM7 Control · DM3 Standard *When connecting two or more devices
A device on the network cannot be registered from ProVisionaire Edge Setting.	The target device may not be supported by ProVisionaire Edge.	Refer to the ProVisionaire Edge compatibility table on the Yamaha Pro Audio website. To view the compatibility table, search for “ProVisionaire Edge Compatibilities.”

