YAMAHA

MTX/MRX system
Firmware Update Guide

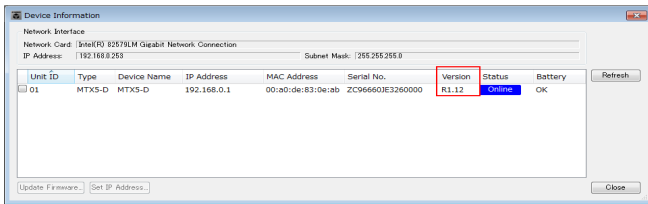Thank you for choosing a Yamaha product.

This guide explains how to update the MTX series, MRX7-D, XMV series, and EXi8/EXo8 units (henceforth "device") main firmware and its built-in Dante module firmware.

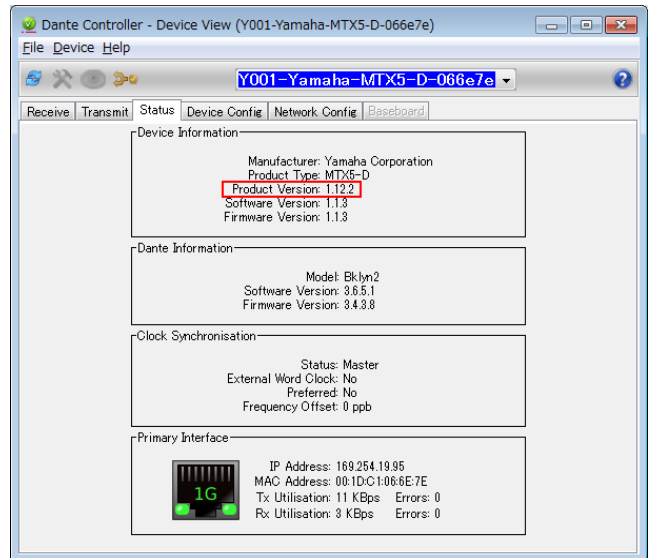## ■ Precautions (Please be sure to read this section first!)

- The user assumes full responsibility for the update.
- Please note that the device may be damaged if you fail to follow these instructions properly, or turn off the device or disconnect the cable while the update is in progress.
- If the update fails, and the device still does not operate correctly even after you execute the update once again, please contact your Yamaha dealer.
- Yamaha Corporation owns exclusive copyrights for the device firmware, its update program, and the update guide.
- Audinate owns exclusive copyrights for the Dante firmware and its update program.
- It is prohibited to duplicate or modify the firmware, software or guides, in part or in their entirety, without permission from the copyright owner.
- The screen shots in this guide are for use with this update procedure only and may be different from the actual screen shots.
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■ Checking the version number

・ You may check the firmware version of the device itself from the "Device Information" dialog box of MTX-MRX Editor, or by using the Dante Controller software from Audinate Corporation.
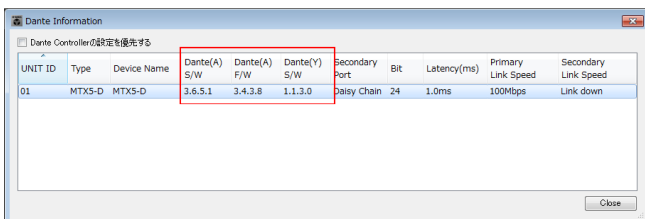

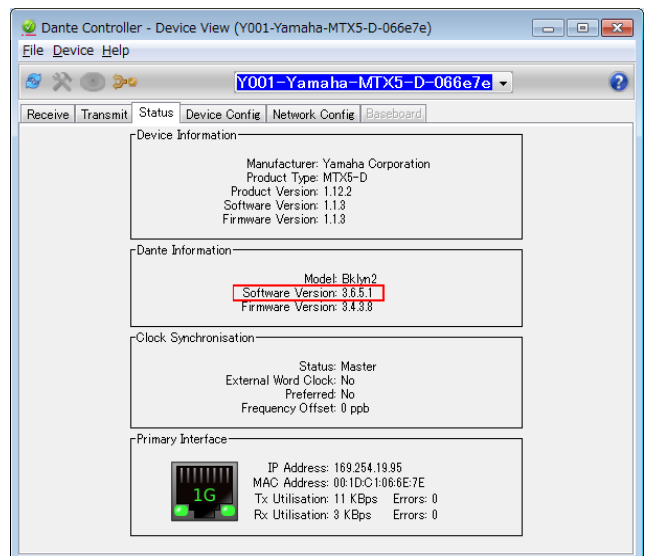"Device Information" dialog box

Dante Controller (Device View)

・ You may check the Dante firmware version from the "Dante Information" dialog box of MTX-MRX Editor, or by using the Dante Controller software from Audinate Corporation.

"Dante Information" dialog box

Dante Controller (Device View)

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■ **Preparing for the update**

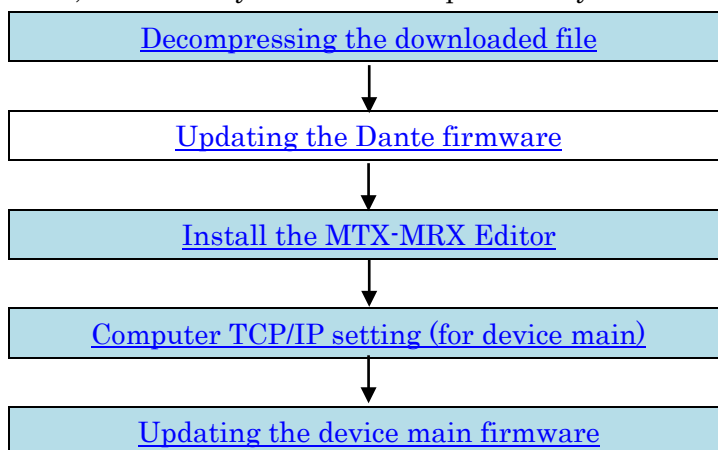You will need the following items ready to execute the update procedure.

● A Windows computer equipped with the following conditions:

OS	Windows 11 / Windows 10
CPU	Core i5 or higher (Windows 11) / Core i3 or higher (Windows10)
Memory	4GB or more
HDD	230MB or more (480 MB or more for install)
Connector	An Ethernet connector that supports a data transfer rate of 1Gbps or higher

● An Ethernet cable (CAT5e or higher recommended. Straight or cross.)

● MTX-MRX Editor, device main firmware, Dante Controller, and Dante firmware
Download the latest firmware from the following URL.
Install the MTX-MRX Editor to the main firmware of the device and copy to a computer.
http://www.yamahaproaudio.com/downloads/

■ Update procedure sequence

Update each firmware component in the following sequence. If you're using a YDIF model, execute the colored steps. If you're using a Dante model, execute all of the steps. However if there's no need to update the Dante firmware, execute only the colored steps even if you're using a Dante model.

Decompressing the downloaded file

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Updating the Dante firmware

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Install the MTX-MRX Editor

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Computer TCP/IP setting (for device main)

↓

Updating the device main firmware

■ Decompressing the downloaded file

Decompress the downloaded "mtx_editorxxx_firmxxx.zip" (xxx is the version number). The installer and firmware are in the following folder structure.

```
mtx_mrx_editorxxx_firmxxx
├Dante
│ ├DanteFirmwareUpdateGuide
│ └DanteFirmware   : Dante firmware
└editorxxx_firmxxx   : MTX-MRX Editor installer and device main firmware
    └firmware   : Device main firmware
```

The Dante firmware does not operate normally if its path contains any multi-byte character (including Japanese characters). If you use a directory name containing any multi-byte character in your computer, store the firmware update files in a directory that consists only of ASCII characters (e.g. C:\temp).

When you install MTX-MRX Editor, the device main firmware will be decompressed and stored under C:\Program Files or C:\Program Files(x86).

NOTE
・To correctly decompress and store the device main firmware, make sure that the setup.exe file and the Firmware folder are located in the same folder, then install MTX-MRX Editor.

■ Updating the Dante firmware

For information on how to update the Dante firmware, please refer to the "Dante Firmware Update Guide".
Then proceed to execute the main firmware update for the device.

■ Install the MTX-MRX Editor

Before you update the device main firmware, you must install the MTX-MRX Editor.
Follow the steps below to install MTX-MRX Editor.

1. Double-click "setup.exe" in the "editorxxx_firmxxx" folder.

   The MTX-MRX Editor setup wizard will appear.

2. Proceed with the installation as directed by the instructions in the screen.

   NOTE
   ・If the computer you're using does not have Bonjour installed, a screen asking you to install Bonjour will appear during the installation.
   If you are asked to install Bonjour, download Bonjour from the Yamaha Pro Audio website, and install it. Then install MTX-MRX Editor again.
   http://www.yamahaproaudio.com/downloads/

■ Computer TCP/IP setting (for device main)

To update device main firmware, configure computer TCP/IP settings.

If only a YDIF model is being updated, and the computer is already connected to the unit itself, there is no need to change the TCP/IP settings. Proceed to the next section "Updating the device main firmware."

1. **Start up MTX-MRX Editor.**
    ▭ **NOTE** ▭
    ・The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

2. **The "Network Setup" dialog box appears, click [Open Network Connection].**
    "Network Connections" will appear. You can also access the "Network Setup" dialog box by choosing [System] menu -> [Network Setup].

3. **Right-click the adapter to which the device(s) are connected, and choose [Properties].**
    The "Local Area Connection Properties" dialog box will appear.

4. **Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties].**
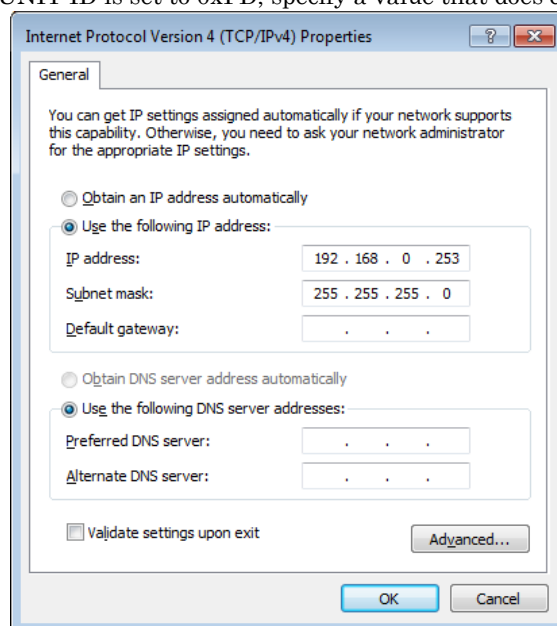   The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.

5. **Click [Use the following IP address].**
    For a system in which a router or DHCP assigns the IP address, click [Obtain an IP address automatically] and proceed to step 7.

6. **Enter your computer's IP address "192.168.0.253" into [IP address], and "255.255.255.0" into [Subnet mask].**
    ▭ **NOTE** ▭
    ・If there is a device whose UNIT ID is set to 0xFD, specify a value that does create a UNIT ID conflict.

7. **Click [OK].**
    ▭ **NOTE** ▭
    ・In some cases, Windows firewall may block MTX-MRX Editor when you make this setting. Select the [Private Network] check box, and click [Allow Access].

■ Updating the device main firmware

This section explains how to update the device main firmware.

Use an Ethernet cable to connect your computer to the device. If the Dante device is connected via a redundant connection, connect your computer to the network switch that is connected to the [PRIMARY] connector.

When the firmware of the device will update without compatibility version of editor, ensure that the MTX/MRX system is synchronized and saved to MTX-MRX Editor as a project file before performing the firmware update in order to ensure that your project data is not lost, and then perform the firmware upgrade using the latest version of MTX-MRX Editor. Ensure that the device is initialized after the update, and then open the previously saved project file using the latest MTX-MRX Editor and re-synchronize to the updated devices.

> **NOTE**
> ・ If your computer enters Sleep or Energy Save mode, data transfer to the device may stop. Therefore, you should disable these functions to prevent this from happening. We also recommend that you do not use any screen saver or similar background programs.

1. **Turn off the power to the device.**

2. **Set DIP switches 7 and 8 (on the XMV, Device setup DIP switch) to the upward (OFF) position, and then turn on the power.**

3. **If the device main firmware for a device connected to MTX-MRX Editor is not compatible, an "Alert" dialog box will appear. Click [Update Now] or [OK].**
   If you click [Update Now], skip to step 5.
   If you click [OK], proceed to step 4.

4. **In MTX-MRX Editor, choose [System] menu -> [Device Information].**
   The "Device Information" dialog box will appear.

5. **Click [Update Firmware].**
   The "Update Firmware" dialog box will appear.
   If the "Select File" dialog box opens, select a folder that contains the update file (fup), then click [OK].

6. **Specify the folder that contains the version of firmware.**
   To specify a different file, click [...].

7. **Click [Update] to execute the update.**
   During the update, the indicators of the devices will flash. When the update is completed, the indicators will light, and the devices will restart automatically.
   > **NOTE**
   > ・Do not turn off the power of the devices while the indicators of the devices are flashing.
   > ・If the [ALERT] indicator of an applicable device is flashing, an error has occurred and the update has failed. The front panel [PRESET] display indicates the alert number; refer to the alert list in the MTX-MRX Editor User's Manual and take the appropriate action.

8. **When the update has completed and all devices have restarted automatically, close the "Device Information" dialog box.**
   When the update has completed successfully, and the devices have restarted, the devices will reappear in MTX-MRX Editor's Project screen.

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9. **If "Requires Initialization" appears in the Status field, initialize the specified device.**

   To start initialization, set DIP switch 7 to the down position and DIP switch 8 to the up position (on the XMV, Device setup DIP switches 7 and 8), then restart the device. For more information, refer to the User's Manual for the corresponding device.

   NOTE
   When initializing Dante devices (MTX5-D, MRX7-D and Dante model of XMV), ensure that all other Dante devices on the network are disconnected or powered off. Otherwise initialization could take longer than necessary.

The firmware update is now complete.

■ About Failsafe Mode

During normal operation, software must be loaded from a flash memory drive during operations to use the Dante module integrated in the device. However, data in a flash memory drive may occasionally become corrupted, as with any other storage device.

In many cases, such data corruption is caused by turning the device power off during firmware upgrading.

The Dante module has a specially protected flash drive section in order to recover from such a condition. When the main section is damaged, the program stored in the protected area is activated and the Dante module goes into "failsafe mode."

To restore a Dante module in failsafe mode, a recovery image needs to be sent from the Dante Updater. To check if the Dante module is in failsafe mode, use Dante Controller: the respective device is displayed in red in the network grid view of the Dante Controller (version 3.1.x or higher). Additionally, alert number 08 or 008. is shown on the unit itself.

For details, please refer to "Failsafe Mode" in the ["Dante Firmware Update Guide."](#)