




## Solid State Logic V4.4 Network I-O V4.4 Package Installation Guide

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# Solid State Logic

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**Network I/O V4.4 Package  
Installation Notes**

Update Package Contents	Version/Description
SSL Network I/O Controller – Installer	1.12.3.53172
SSL Network I/O Updater – Installer	1.11.5.55670
SSL Network I/O Manager – Installer	2.0.0
SSL Dante Brooklyn Firmware Files	Brooklyn 2 and 3 firmware for all SSL devices
SSL Dante HC Firmware Files	HC Card firmware for all SSL devices

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## Document Revision History

Version	Initials	Date
Initial release	EA	August 2023

## Requirements

Windows PC with the following applications/services installed:

- Microsoft .NET 4.7.2 or later [incl. in automatic Windows Updates]
- Audinate Dante Controller V4.9.0 or later
- Network I/O Updater 1.11.5.55670
- Dante Domain Manager login credentials [DDM managed networks only]
- All devices on minimum Network I/O V4.2 package prior to updating

## Important Notes

### Dante Domain Manager Networks

The Network I/O Updater application will need to log in to the respective domain(s) to complete SSL firmware updates when programming devices across the network.

Alternatively, if devices are taken 'offline' and connected to directly, the devices must be un-enrolled from domains

first to permit offline connection away from the DDM server, then enrolled again into the correct domains once completed. This process should be discussed with those responsible for managing DDM and the Dante network in general prior to attempting updates.

### **Updating Multiple Devices**

It is possible to programme Dante firmware file onto multiple devices simultaneously, provided they are the same device type/model and Brooklyn variant.

It is not possible to programme SSL firmware onto multiple devices simultaneously. Running multiple instances of the Network I/O Updater application on the same network will conflict and cancel firmware updates.

### **Application Installer Changes**

Following Microsoft advice for apps within Windows 10 onwards, SSL application installers have no automatic Desktop shortcut, no version numbers in Start Menu shortcuts and no Start Menu shortcuts to uninstallers.

Audinate's Dante Firmware Update Manager is obsolete and replaced by Dante Updater within the Dante Controller application. Firmware Update Manager is not compatible with Brooklyn 3 firmware files and not supported for this release.

### **Included Firmware**

For convenience, all current Dante firmware files for SSL stageboxes, interfaces, bridges and consoles are included in this package. For mainboard firmware dependencies not detailed in this document, please refer to previous release notes or contact your local SSL Support office.

## **Release Notes**

### **New Features and Improvements**

- 36859: SNMP support from Network I/O Controller providing PSU status, NIC status and Device name to external SNMP system
- 39378: MAD1 Bridge added to Network I/O Controller for GPIO and SNMP
- 44614: SPI updates for 62D241Xn card for use with Bk3

### **Bug Fixes**

- 43377: Bk3 devices enrolled in a Dante Domain in DDM cannot be controlled by Network IO Controller, System T or Live consoles logged into that domain – Device provides incorrect devices ID response (Audinate ETS-3784 resolved in v4.2.5.3)
- 42962: SB32.24 & SB16.12 Ch1 output intermittent delay issue

## **Firmware Update Procedure**

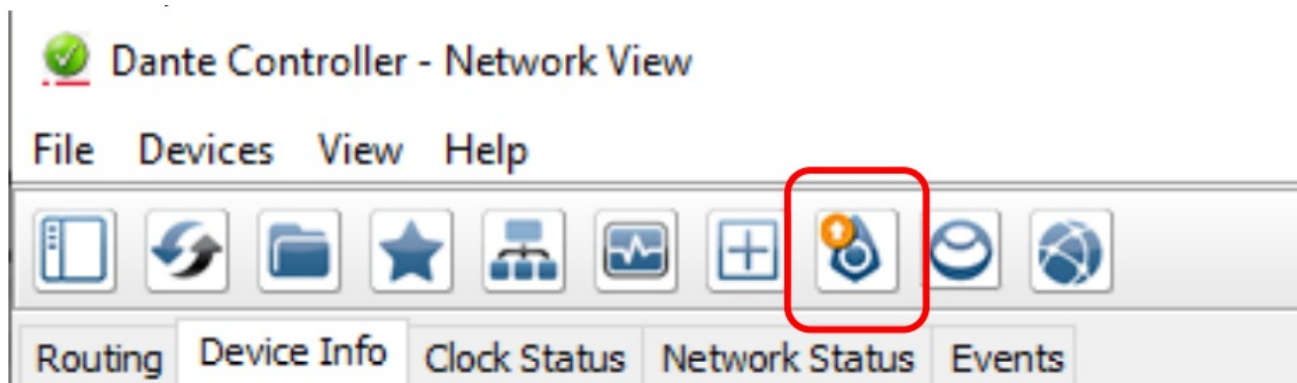
### **Dante Firmware**

Dante firmware files are included in the V4.4 package so that this procedure can be completed without internet access being required, by manually importing files. The following steps detail this 'offline' method.

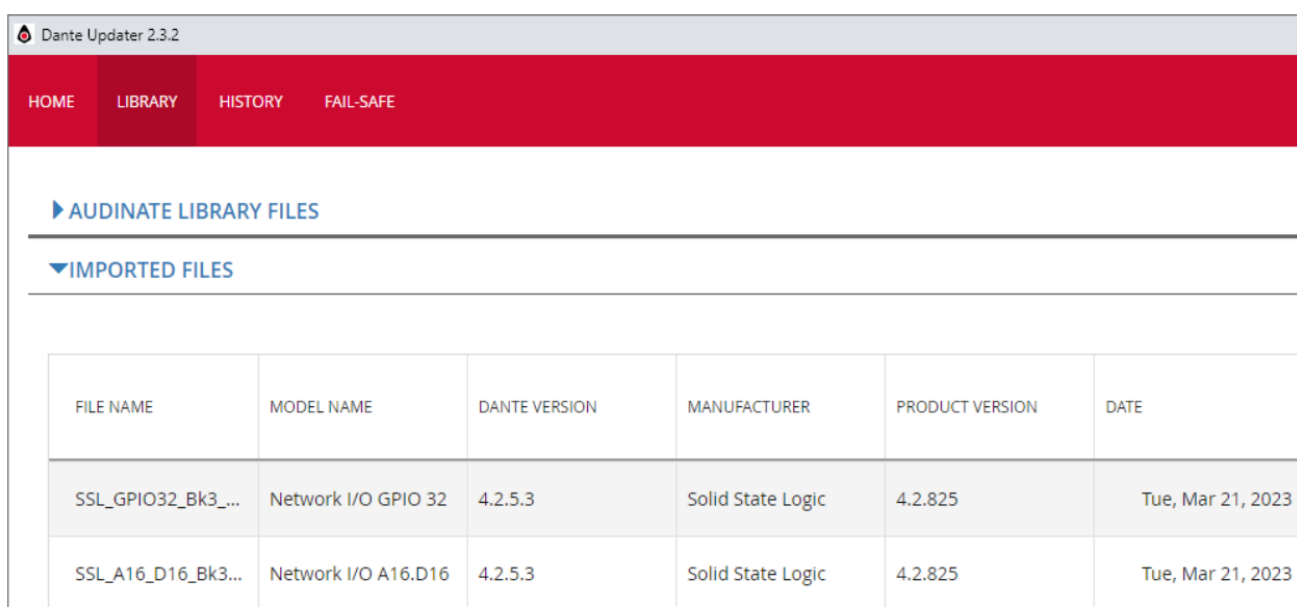
Dante firmware files are also available from the Dante Updater Online Library – refer to the Dante Updater User Guide for further details as required.

The Dante firmware version is visible in Dante Controller>Device View>Status under Manufacturer Information>Product Version. Check product versions against the firmware look-up tables included later in this document to determine what devices need updating.

1. Ensure that the latest version of Dante Controller is installed and that all required devices are visible, then launch the Dante Updater feature of the application. This will open a dedicated application window, and the launch button is indicated below:



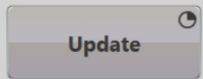

2. Click on the drop-down menu in the top-right of the Dante Updater window to access Advanced Settings. Enable the checkbox next to Allow Imported Firmware then Apply.
3. Navigate to Library>Imported Files and expand this section by clicking on the drop-down arrow. Use the Import Firmware button in the bottom-right of the window to add the individual .dnt files supplied with this Network I/O package. Note that it is only possible to add each file one at a time.



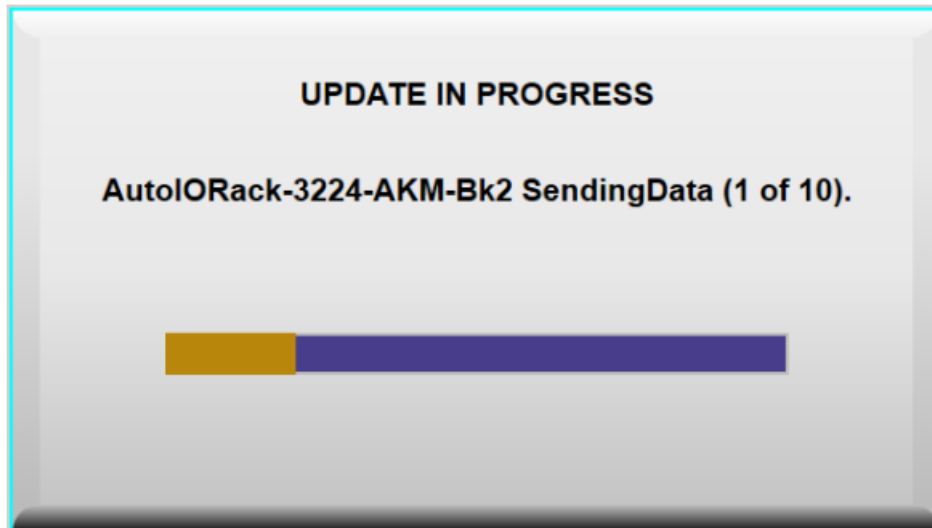
4. Navigate to the Home>Imported Firmware Files, expanding the section by clicking the dropdown arrow. This list will show detected devices compatible with the files that have been added. Use the dropdown arrow to spill out details for the device. New firmware is loaded using the UPGRADE button in the ACTION column. A progress bar will be shown while this completes. For devices comprising multiple Brooklyn cards (SB32.24 and 16.12) update both cards prior to rebooting.
5. Once Dante updates are complete, power-cycle the stagebox and test for correct operation.

## SSL Firmware

1. Install the SSL Network I/O Updater application onto the PC Connect the PC being used to perform the updates.
2. Connect the PC to the Dante Primary network, then right-click the application and select Run as administrator to launch.
3. The application will discover all Network I/O devices and display the currently installed firmware version. If an update is necessary, the required version will be displayed, and the Update button will be active:

Name	Current Version	Required Version	Status	Command
AutoIORack-A32-Spare	28711	28711	Up to date	
AutoIORack-3224-AKM-Bk2	24250	28711	Press and hold button to start update	

- Press-and-hold the Update button to begin programming firmware. This update will take approximately 10-15 minutes depending on the unit being updated:



- Once programming is complete, click OK and power cycle the unit. Wait for the device to appear in Network I/O Updater again and confirm that the Current Version and Required Version match.

## Install SSL Network I/O Controller

The latest version of SSL Network IO Controller must be installed on any PCs that may be used to control Network I/O units. Newer Network I/O firmware is not backwards compatible/tested with older software.

- Run the Network IO Controller installer included in this package and follow the on-screen instructions.
- You may be prompted to restart your PC upon completion. The app can be launched from the Start menu by typing 'Network IO Controller'.
- [Optional] Right-click on the app icon in the Start menu then Open file location. Copy and paste the app shortcut to the Desktop.

## Software and Firmware Version Compatibility Overview

For Network I/O devices used in a shared network environment, all devices including any SSL Live and SystemT consoles should be updated at the same time. Other software applications and tools on the network may also have dependencies. To assist with updates SSL, publish a list of versions tested alongside each console release. The table below is current at the time of this release.

Audinate manage forward and backward compatibility for Dante implementations and applications. Other Audinate software versions will work with the console software releases; this list documents what has been tested at SSL. Numbers in bold denote new versions.

Note that 'Mk1' and 'Mk2' SB 32.24/SB 16.12 stageboxes are automatically differentiated by Network I/O Updater to ensure the correct SSL firmware is loaded – no manual selection is required. Mk1 and Mk2 designation refers to internal SSL cards and not the Dante Brooklyn module.

Devices fitted with Brooklyn 2 or 3 variants are denoted with 'Bk2' and 'Bk3' respectively in the table below. This reference is also included in the Dante firmware (.dnt) file name.

<b>Software Compatibility</b>	<b>V4.2 Package</b>	<b>V4.3 Package</b>	<b>V4.4 Package</b>
SSL Network I/O Controller	1.11.6.44902	1.11.6.44902	<b>1.12.3.53172</b>
SSL Network I/O Updater	1.10.42678	1.10.6.49138	<b>1.11.5.55670</b>
SSL Network I/O Manager	2.0.0		
SSL System T Console Software	V3.0.14 V3.0.26	V3.1.24 V3.1.25	<b>V3.3.x</b>
SSL Live Console Software	V4.11.13 V4.11.18	V5.0.13	<b>V5.2.x</b>
Audinate Dante Controller	4.2.3.1	4.4.2.2	<b>4.9.0.x</b>
Audinate Dante Updater	–		<b>2.2.3</b>
Audinate Dante Firmware Update Manager	3.10		–
Audinate Dante Domain Manager	–	1.1.1.16	<b>1.4.1.2</b>

<b>Stagebox SSL Firmware</b>	<b>V4.2 Package</b>	<b>V4.3 Package</b>	<b>V4.4 Package</b>
SB 8.8 + SB i16	23927		
SB 32.24 + SB 16.12 – Mk1	26181	26621	<b>28711</b>
SB 32.24 + SB 16.12 – Mk2	–		<b>128711</b>
A16.D16 + A32 + D64 – Mk1	25547	26506	<b>28711</b>
A16.D16 + A32 + D64 – Mk2	–		<b>128711</b>
GPIO 32	25547		<b>28711</b>

## Network I/O V4.4 Installation Notes

<b>Stagebox Dante Firmware – Brooklyn 2</b>	<b>V4.2 Package</b>	<b>V4.3 Package</b>	<b>V4.4 Package</b>
SB 8.8 + SB i16 – Bk2	4.1.25840		
SB 32.24 + SB 16.12 Main (A) – Bk2	4.1.26041		
SB 32.24 + SB 16.12 Comp (B) – Bk2	4.1.26041		
A16.D16 + A32 + D64 – Bk2	4.1.25796		
GPIO 32 – Bk2	4.1.25796		

<b>Stagebox Dante Firmware – Brooklyn 3</b>	<b>V4.2 Package</b>	<b>V4.3 Package</b>	<b>V4.4 Package</b>
SB 8.8 + SB i16 – Bk3	–		<b>4.2.825</b>
SB 32.24 + SB 16.12 Main (A) – Bk3	–		<b>4.2.825</b>
SB 32.24 + SB 16.12 Comp (B) – Bk3	–		<b>4.2.825</b>
A16.D16 + A32 + D64 – Bk3	–		<b>4.2.825</b>
GPIO 32 – Bk3	–		<b>4.2.825</b>

<b>Additional SSL Dante Device Compatibility</b>	<b>V4.2 Package</b>	<b>V4.3 Package</b>	<b>V4.4 Package</b>
MADI Bridge SSL Firmware	24799		
MADI Bridge Dante Firmware – Bk2	4.1.25700		
MADI Bridge Dante Firmware – Bk3			<b>4.2.825</b>
System T HC Bridge SSL Firmware	23741		
System T HC Bridge Dante Firmware	4.1.25703		
HC Bridge SRC SSL Firmware	23741		
HC Bridge SRC Dante Firmware	4.1.25703		
Live BLII Bridge + X-Light Bridge SSL Firmware	23741		
Live BLII Bridge + X-Light Bridge Dante Firmware	4.1.25703		
Live Dante Expander Dante Firmware – Bk2	4.1.25701		
Live Dante Expander Dante Firmware – Bk3	–		<b>4.2.825</b>
PCIe-R Dante Firmware	4.2.0.9		
SDI + AES Main Card Flash Firmware	2.1.0.3	2.3.6.1	
SDI + AES Dante Firmware – Bk2	1.0.3.1	4.0.2.9	
SDI Dante Firmware – Bk3	–		<b>4.2.0.20</b>

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code via CD-ROM or USB pen drive for a nominal cost to cover shipping and media charges as allowed under the GPL and LGPL.

Please direct all enquiries to: [support@solidstatellogic.com](mailto:support@solidstatellogic.com)

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## Documents / Resources

	<p><a href="#">Solid State Logic V4.4 Network I-O V4.4 Package</a> [pdf] Installation Guide</p> <p>V4.4, V4.4 Network I-O V4.4 Package, Network I-O V4.4 Package, I-O V4.4 Package, Package</p>
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## References

- [SSL | Solid State Logic | Leading the way in Sound](#)
- [SSL | Solid State Logic | Leading the way in Sound](#)
- [Overview](#)
- [Dante Controller, Pro AV Networking Software from Audinate | AV's Leading Technology](#)
- [SSL | Legal | Solid State Logic](#)
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[Manuals+.](#)