



OMNEO Dante Gateway



BOSCH

en Release Notes 1.60

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1 Scope

These release notes give an overview of new functionality of the OMNEO Dante-Gateway (F.01U.360.285) compared to the previous release. It reports known issues and possible workarounds.

2 Release overview

Release	Release Date	Release Comments
1.50.36728	2022-10-25	Initial version of this document
1.60.52517	2024-01-31	Changes for version 1.60

2.1 Release 1.60

This release updates the support for PTPv1 clocking in AES67 mode. It only contains bugfixes.

2.1.1 Updating to this version

It is possible to update the DanteGateway to this version using the Firmware Update tool. We advise using version 9.30 or newer.

Download the new installer package from our website and run the installer. (Re)start the firmware upload tool after the installer is finished.

Please ensure that you upgrade both sides of the DanteGateway: OMNEO + Dante side. It is necessary to connect the PC running the FW upload tool to the specific network connections.

2.1.2 Bug fixes

2.1.2.1 In AES67 mode PTPv2 messages contain TTL of 1

When enabling AES67 mode for the DanteGateway, it will use PTPv2 to synchronize its audio clock, as specified by the AES67 specification. Unfortunately, the V1.50 SW uses a Time To Live for PTPv2 messages of 1, while the specification demands this to be 16. This issue has been fixed in this version.

2.2 Release 1.50

Release of the Dante Gateway firmware 1.50 adds one additional feature to the existing functionality. Next to this it uses the newest OMNEO SW version.

2.2.1 Place OMN-DANTEGTW in multiple VLANs

As of this SW version it is possible to use multiple Dante-Gateways in a multi VLAN network. Pre 1.50 versions can handle this too but have a constraint. It is only possible to place all OMN-DANTEGTW in the VLAN which contains the ARNI-E, VLANs with or without ARNI-S may not contain a OMN-DANTEGTW.

As of version 1.50 it is also possible to have OMN-DANTEGTW in these other VLANs. This does require manual changes to the PTP preferred leader flag setting for this situation.

Note: the Dante side of all OMN-DANTEGTWs **must be connected to **the same** VLAN and this VLAN needs to be fully separated from the OMNEO VLAN's.**

2.2.2 Control on the PTPv1 preferred leader flag

To allow the Dante-Gateway to synchronize the OMNEO network correctly to the Dante gateway it has by default the following PTP flags set on the OMNEO side:

1. Sync to external
2. Preferred leader

With this release it is possible to reset the preferred leader flag using the Dante Controller from Audinate. For details see Dante Controller [manual](#). It is necessary to do this when using the OMN-

DANTEGTW in a multi VLAN OMNEO network for all VLANs except the VLAN with the ARNI-E. This way the whole OMNEO system synchronizes to the Dante VLAN via the OMN-DANTEGTW in the ARNI-E VLAN.

2.2.3 Bug fixes

The OMN-DANTEGTW V1.50 uses the latest OMNEO versions which contain multiple bug fixes. Please update to this version when possible even if you do not require the new functionality.

2.2.4 Updating OMN-DANTEGTW

It is possible to update to the version using the Firmware Upload tool. Please make sure you update both sides by connecting to the OMNEO network followed by the Dante network

3 Known Issues

3.1 Possible to switch off 'sync to external flag' OMNEO side via Dante Controller

Issue

Use Dante controller to reset the PTP sync to external flag. This will result in audio artifacts for audio exchanged over the OMN-DANTEGTW

Mitigation

Reboot OMN-DANTEGTW to restore the default sync to external setting or use Dante Controller to enable it again.

3.2 Preferred leader flag OMNEO side set again after reboot

Issue

If you reset the PTP sync to external flag and reboot the OMN-DANTEGTW it is automatically set again because this is required for the OMN-DANTEGTW to fulfil its function. However if you manually reset the PTP preferred leader flag before this change is also undone.

Mitigation

Reset the Preferred Leader flag and do not change the sync to external flag again.

4 Supported Systems

Supported systems

OMNEO based system in single and multi VLAN operation
FWUT

Release in version

9.30