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| Release Title: | 5.2.12 |
| Release Date: | 25-Apr-2016 |
| Version: | 5.2.12 |

1. Remarks

This release contains bugfixes and improvements for the .The major features and issues fixed are listed below

New Features:

1. New version of the OMNEO integrated for OMI/OKI/OEI-2. The new version is 3.08.
2. Support for the Audio and Control Packages available in the KP-Series Panels
 - a. Upload and download of keypanel configuration
 - b. Keypanel mirroring
 - c. Voice messaging
 - d. Real-time control of the panel from AZedit
3. FWUT /DNS-SD Version 4.30 is released
4. ARNI Configuration Tool and Firmware V4.30

Bug Fix

OMI (V5.2.12)

- 1) Multicast Filtering support added in the OMI. The OMI will now ignore the Multicast Audio Flow packets set-up via the Dante Controller.
- 2) Minor fixes related to the Matrices name.

2. Previous Release

Bug fixes

OMI (V5.2.11)

- 1) Memory leak issue which was introduced in V5.2.9 build have been fixed. This would cause the OMI to reset after running continuously for 8 days.

OMI (V5.2.10)

1. OMI is not able to handle correctly Key panel Data for KP-96 and KP-12 classic when connected Via OEI-2
2. Due to Timestamp rollover the OMI would go in for reset
3. The Local matrix information not being sent to the KP's
4. The user was not able to delete the Multicast Flow in the Dante Controller. This has been fixed.
5. The Output Gain would drop after 18.0 DB has been fixed
6. The noRSTP.capfw displayed RSTP version in the version info, even when running noRSTP. This issue is only with V5.2.9
7. When upgrading the Firmware from V5.2.9 to V5.2.10, the FPGA would load the V0.48. This has been fixed. So the current workaround is to repower the card. From V5.2.10 onwards this workaround is not required.
8. The Domain name was restricted to only 31 characters. This has been fixed

OKI (V5.2.10)

1. New OMNEO version 3.07 integrated
2. Switching between OMNEO to AIO mode and vice versa fixed
3. In the AIO mode no offers were being displayed for the OKI. This has been fixed

OEI2 (V1.4.6)

1. New OMNEO version 3.07 integrated
2. Connection to key panels KP-12 classic and KP-96 fixed which caused OEI-2 to reset

V5.2.9

**OMI**New features

1. Option to reset the configuration on the OMI via Dip Switch 8
2. OMI FPGA V0.50.Capfw released. The version info of the FPGA is displayed in the FWUT (only in advanced mode), IPEdit, and AZEdit.
3. Once the FPGA is upgraded via the FWUT, **the OMI card needs to be repowered for the new FPGA to load.**

Bug fixes

1. For the 128 Keys per port setting of the Intercom, following 2 issues have been fixed
 - a. Pressing CWW key did not pass audio.
 - b. Key operation from Key 65 to Key 128 not handled correctly.
2. With the upgrade of OMI FPGA to V0.50, the OMI freeze issue on resets have been fixed

There is no release for the OKI and OEI-2

V5.2.5OMI

1. When OMI is allocated timeslots 445-461 then Audio is not available on these ports.
2. OMI-Controller sometimes not able to resolve its Audio device on reset or power-up.
3. Log file overflow resulted in OMI connection drops to the Key panels have been addressed
4. OMI-controller not renewing its DHCP address on network link down has been fixed
5. Download of large font files has been fixed

OKI

1. Ability to restore default Authentication table for OKI connected to Keypanel. It is now possible to send a command from the Keypanel to restore the default authentication table. This needs an update of the Key panel Firmware also.
2. Switching from OMNEO to AIO addressed. Earlier it was observed if the user delayed activating the change, the panel would not switch to AIO mode.
3. Device name change ignored if there is no difference

OEI-2

Sometimes OEI-2 connected Keypanels do not make data connection. This has been fixed

V5.2.1

The following document contains the release notes applicable to OMI firmware only. In the OMI firmware there was one issue resolved. The following issue was resolved

1. **OMI card does not come up from reset in the scenario if the right-hand side MCIIe is active (Physical Slot 20) and left hand-side (Physical Slot 19) MCIIe is in standby mode. This issue is only observed when both active and standby MCIIe are in the frame and Physical Slot 20 MCIIe is the active MCIIe and only if OMI resets. This is not an issue when only single MCIIe is used.**
2. **In addition this release also contains NORSTP version of the OMI-Firmware. These are separate capfw files that need to be uploaded on to the OMI card by using the Firmware Upgrade Tool. Please refer to section 6 of this document.**

V5.2.0

The following document contains the release details for the Version 5.2.0 for OMI and OKI and OEI-2 version 1.4.0. This release is major release for RTS based OMNEO products especially OMI and OKI as this fixes many of the issues related to

- a. Firmware Upgrade for the OMI cards
- b. Mis-match of IP address and Device Name between OMI Controller and OMI-Audio Device
- c. Display of IP address on AZEdit and IPEdit
- d. Audio Route Errors due to network disconnection /reconnection
- e. Intermediate Reset of the OMI
- f. Switching between OMNEO and AIO mode
- g. Stability of OMI-OMI audio route connections
- h. Issues related to swapping of the OMI cards
- i. Issues related to Trunking (Display of Remote Trunked Alphas)
- j. OEI-2 support for all panel types (MKP4, KP32 Classic Ver 2.3.0,...)
- k. Control Bus errors resulting in the freeze of OMI cards



- I. OKI device reporting –103DB gain issue

New features added in V5.2.0

- a. Support for connecting to OEI-2 Device is provided from this version onwards. **Previous 4.x.x version of OMI does not support connecting to OEI-2 and should not be used**
- b. Support for KP4000/5000 series new key panel. Previous 4.x.x version of OMI does not support these key panels.
- c. Audio Routes set-up between OMI and other Dante devices made are retained/saved across resets and power-ups. Note only Audio Routes set-up via Dante Controller are saved.
- d. Capability to display and edit both the OMI IP address. This needs AZEdit Version 4.7.0 and IPedit 3.1.0. Do not use previous version of AZEdit and IPedit with this version
- e. Capability to display the MAC Address of the OMI-Controller and OMI-Audio Device
- f. Capability to display both the OMI-Controller and OMI-Audio Device version in the version info string on AZEdit and IPedit.
- g. AZEdit displays both the Data Connection and OMNEO Audio Connection loss in the Alarm status window per port
- h. Support for 8-bit protocol in the OMI and the OKI.
- i. Support for 255 Intercoms
- j. Add following new LED indication on the OMI card for Diagnostic
 - i. RED LED 19 will be on if the OMI-Controller Device name and OMI-Audio Device do not sync
 - ii. RED LED 18 will be on if the OMI-Controller IP is not in the same range as OMI-Audio Device. If both the IP is in the same range then the GREEN LED 18 will be on
 - iii. RED LED 0 will be blinking indicating that the OMI-Card is working normally. If it stays solid or is off it indicates there is an error
 - iv. During the Firmware Upgrade of the OMI-Controller RED Led 0-6 will sequentially turn on and off.
 - v. RED LED 1 will blink to indicate that the communication with OMI-Audio device is normal.
 - vi. RED LED 2-6 is used for OMI internal firmware status
 - vii. RED LED 7 ON indicates the OMI is configured in static mode
- k. OMNEO platform migration to version 3.05 from existing version 3.01

3. Known Issue

- a. Sometimes all Audio Routes are not established when OMI is reset.

4. Software Compatibility Matrix

The Version 5.2.12 firmware requires following version of the software/firmware

| | |
|---------------------------|---|
| a. OMI | 5.2.0/5.2.1/5.2.5/5.2.9/5.2.11/5.2.12 |
| b. OKI | 5.2.0/5.2.5/5.2.10/5.2.12 |
| c. OEI-2 | 1.4.0/1.4.2/1.4.6/1.4.7 |
| d. IPedit | 3.2.0 and above releases |
| e. AZEdit | 4.7.0/5.0.0 and above releases |
| f. MCIIe | 3.0.4 or above releases |
| g. FWUT | 3.30.2877 |
| h. Bosch DNS-SD | 3.30.2877 |
| i. SetupOMNEONiosFirmware | 3.05.2903 |
| j. SetupOMNEOOEI2Firmware | 3.05.2903 |
| k. SetupOMNEOOKPFirmware | 3.05.2903 |
| l. K32-CLD | V1.6.0 onwards Omneo Support Added |
| m. KP12-CLD | V1.3.0 onwards Omneo Support Added |
| n. KP32-Classic | V2.4.0 onwards Omneo Support Added. Requires update to boot loader |

4. Firmware Versions

From this release onwards it is possible to update the OMI card with the single firmware file (capfw). The following constraints still exist

1. **If the OMI card version is 4.0.0, then separate capfw files are required to update the OMI card to Ver 5.2.12. The OMI-Controller should be updated first**
 - a. OMI-Controller.capfw
 - b. OMI-Audio-Device.capfw



2. For OMI card with version 4.02 and above single capfw file is required. It will update both the controller and audio device on the OMI.

The following table gives firmware version

| Component | Versio | Comment |
|--|--------|--|
| The following firmware file contains images for the both the OMI controller and Audio Device and should be used for upgrading OMI card with Versions 4.02 and above. | | |
| OMI-Firmware_RSTP_V5.2.12.capfw OMI-Firmware_noRSTP_V5.2.12.capfw | 5.2.12 | This file has to be used for upgrading OMI cards with version 4.02 and above. Please read the FWUT instructions |
| OMI-FPGA_Firmware_V0.50.capfw | 0.50 | This updates only the NIOS FPGA |
| Component | Versio | Comment |
| The following firmware file contains images for the both the OMI controller and Audio Device and should be used for upgrading OMI card with Versions 4.0.0 and above | | |
| OMI-Firmware_Controller_V5.2.12.capfw | 5.2.12 | This file is used for upgrading the OMI board set with the above versions using FWUT. This only updates the NIOS |
| OMI-Firmware_AudioDevice_RSTP_V5.2.12.capfw OMIFirmware_AudioDevice_noRSTP__V5.2.12.capfw | 5.2.12 | This file is used for upgrading the OMI board set with the above versions using FWUT |