IGGY-AES16.16 RELEASE NOTES

Welcome to the IGGY-AES16.16 Release Notes for v2.0. Please read this document to find important information on areas of IGGY-AES16.16 that may not be covered in the user documentation.

CONTENTS

VERSION HISTORY

VERSION 2.0.0 – AUGUST 2023

HIGHLIGHTS

- **MDNS BASED DEVICE DISCOVERY**

  By scanning the QR code on the side of the chassis, the user can automatically look up the network information and connect to their device. Alternatively, the user can enter their IGGY's serial number into rossvideo.com/device, which will uses mDNS and link-local to provide a link to the IGGY's webpage.

- **NMOS IS-04 AND IS-05**

  IGGY-AES16.16 supports the Network Media Open Specifications (NMOS) IS-04 and IS-05. By using an NMOS-enabled connections manager and Registration & Discovery Service (RDS), users can discover and make connections to available AES67 audio streams on their media network.

- **ANEMAN**

  Audio Network Manager (ANEMAN) is a cross platform and cross vendor audio connection management application for AES67 streams. The IGGY-AES16.16 is supported in the Aneman application when the ROSS-BACH plugin is downloaded via the plugin manager.

- **WEB UI AND DASHBOARD USER INTERFACE**

  A new web-based control UI makes it easier to configure and make connections on your IGGY. Ross Dashboard user interface allows you to control your IGGY with the DashBoard framework.

- **WELCOME PAGE AND SETUP WIZARD (WEB UI)**

  The welcome page and setup wizard have been added to the Web UI. The wizard runs through the settings a user will need to setup before using the device. It also gives helpful tips along the way. The setup wizard can be skipped.

- **NEW AND IMPROVED INTELLIGENT PTP TRACKING ALGORITHM**

  An innovative system to allow IGGY-AES16.16 to follow a PTP master with more accuracy in high-jitter networks using predictive modeling and real-time statistical analysis.

- **SOURCE SPECIFIC MULTICAST**

  Source Specific Multicast (SSM) allows delivery of multicast packets to a receiver that originates only from a specific source using IGMPv3.
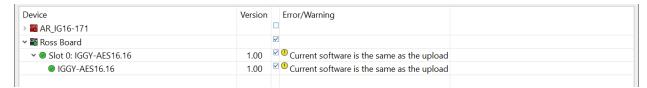
- **DIAGNOSTICS AND METRICS**

  Enhanced diagnostic tools include real link bandwidth meters and a graph for PTP (Precision Time Protocol) offset from master in RMS and raw format. Dashboard also has the ability to show CPU statistics which can be enabled in the Diagnostics tab.

- **HETEROGENOUS ADVERTISEMENTS SUPPORT**

  The IGGY is now able to recognize multiple advertisement sources (Ravenna, DANTE-SAP) and allow connections to them.

KNOWN ISSUES

- When 'AES3 Rx' is selected for AES3 Sync Reference mode, to transmit on a particular AES3 Tx pair, the corresponding AES3 Rx pair must be connected.

  Workaround: Users must connect their AES3 input (Rx) if they wish to transmit on the corresponding AES3 output (Tx).

- Updating an existing sender stream's channel count, channel mapping, transport IP, UDP ports will lead to errors.

  Workaround: Users must delete and re-create the sender if they wish to use different parameters for the sender stream.

- Sometimes, a new advertisement may not appear on a receiver device if an old advertisement from a sending device is still in the cache and a reboot may be required to clear the cache.

  Workaround: You can connect to the new source by copying the SDP and pasting it in the Destination tab on the Web UI.

- When upgrading from software v1.x to v2.x, DashBoard will mistakenly report that the v2.x load is "the same version" as the v1.x.

Device	Version	Error/Warning
> ☒ AR_IG16-171		☐
˅ ☒ Ross Board		☑
˅ ● Slot 0: IGGY-AES16.16	1.00	☑ ⚠ Current software is the same as the upload
● IGGY-AES16.16	1.00	☑ ⚠ Current software is the same as the upload

  Workaround: Ignore the warning and click "Finish" to continue the upload.

VERSION 1.0.0 BUILD 10 – SEPTEMBER 2020

BUGS FIXED

- Fixed an issue related to licensing and the UBI partition during initial setup.

VERSION 1.0.0 – MARCH 2020

HIGHLIGHTS

- **16 AES3 CHANNELS IN AND OUT**
  DB25 connectors with TASCAM/AES59 pinouts provide AES3 digital signaling via an AES/EBU compatible electrical interface.

- **DUAL REDUNDANT AUDIO GigE AND GigE CONTROL INTERFACES**
  16 configurable audio stream receivers and 16 audio stream senders as per AES67-2018, SMPTE ST2110-30 (including conformance levels A, B and C). Provides hitless SMPTE ST2022-7 protection switching with 1+1 redundancy per sender receiver. Audio encoding formats are configurable per audio stream (choose between L24 and L16).

- **ASYNC SAMPLE RATE CONVERTER (ASRC)**
  Support for 48kHz and 44.1kHz sampling rates.

- **AUDIO GAIN**
  -75dB to +25dB per channel audio gain on inputs and outputs. Audio mute per channel.

- **SYCHRONIZATION**
  Word clock reference input and output BNC connections.

- **OPEN CONTROL**
  Discovery and registration via DashBoard Walkabout, RAVENNA, SAP, or Aneman. Connection management via EmBER+, JSON API, or Aneman. Configuration via DashBoard or JSON API.

- **GPIO CONTROL VIA ROSSTALK AND TSL**
  Four isolated out and eight TTL GPIO connections controlled via RossTalk and TSL.

KNOWN ISSUES

- When creating a message with TSL UMD v.4.0 or TSL UMD v.5.0, the Lamp setting must be set to Text Color.

- When upgrading the firmware on multiple units at the same time, a "Reboot Failed" message may be displayed in DashBoard even though all upgrades succeeded.

- When Master Lock mode is switched from "PTP-based" to "External Reference", the Current Reference status is not updated properly.

- A "No Packets Received" message is displayed when only the redundant stream is not receiving packets yet the primary stream is valid.

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- When switching PTP clock reference between PTP and External Reference, the reported PTP Status (Current Reference) may not be correct.

LIMITATIONS

- The DashBoard User Interface is not optimized for Ultritouch-2 or Ultritouch-4.

- When sending a stream between two IGGY-AES16.16 units, each unit must have the same packet time. Otherwise the receiver will change its packet time to match the sender.

- Existing advertised stream names are not updated when the sender device's name is changed. The streams must be stopped and started again for the name change to be applied.

- IGGY-AES16.16 switching between AES3 Trasmitter Master and Slave causes an audio glitch.

- When redundancy is disabled, it is not possible to select which NET port a stream is received on.

GETTING HELP

- Our 24-hour hotline service provides access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel.

- During business hours (Eastern Standard Time), technical support personnel are available by telephone.

- After hours and on weekends, emergency technical support is available. A telephone-answering device will provide the names and phone numbers of technical support and field service personnel who are on call. These people are available to react to any problem and to do whatever is necessary to ensure customer satisfaction. For serious issue which need urgent attention and tracking, please ensure you are given a ticket number and refer to this in future communications.

- **Technical Support: (+1) 613-652-4886**

- **After Hours Emergency: (+1) 613-349-0006**