



Glensound

RAVENNA/AES67 quick-start guide

Getting started with Glensound's RAVENNA/AES67 products

Contents

Introduction1
Device management2
Accessing the device
Ways to access the management interface2
The management interface2
Making audio streams
Receiving audio streams4
Aneman audio network manager
Downloading and installing Aneman5
Using Aneman
Updating device RAVENNA firmware
Ways to access the firmware update page7
Updating firmware7
Recovering device with unknown IP address
Useful links

Introduction

This document provides a quick introduction to using Glensound RAVENNA/AES67 devices.

Glensound RAVENNA/AES67 enabled devices natively support the following protocols and features:

- RAVENNA
- AES67
- SMPTE ST2110-10, ST2110-30 (Full conformance up to and including Level C and Level CX when device supports higher than 48kHz)
- ST2022-7 (Seamless protection switching)
- NMOS IS-04 (Discovery)
- NMOS IS-05 (Routing)
- TR-1001 (System Environment and device behaviour)
- Full remote control from a web browser

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Device management

Accessing the device

Tools needed:

- Glensound RAVENNA device connected to a network
- PC connected to the same network
- A web browser

Ways to access the management interface

• Using the device DNS name

http://<device name><_serialnumber>.local/advanced

Example Vittoria DR serial number 001 with RAVENNA module in slot B:

http://vittoria_b_001.local/advanced

• With a static IP address

Example for unit with a static IP address:

http://192.168.0.1/advanced

• Using Aneman (Audio network manager)

See page 5

The management interface

Glensound use Merging Technologies ZMAN modules to implement the RAVENNA/AES67 solution.

Vitteriu 8,000 x +	~ – O X
← → C 🔺 Not secure http://ittoria.b.000.local/advanced/index.html	e 🖈 🔍 😂 E
Ravenna	Vendor Glensound Product Vitorria B Serial 000
AES67 """ Vittoria_B_000 local • ?	Identify Me
General settings PTP ASIO Clock Session sources Session sinks Ins/Outs I/O Router Statistics NMOS System	
Device Name	
Vittoria_B_000 This is the unique zerocord device name. Other devices see this device name.	
Audio Configuration	
Sample rate 48 U+rz Frame size (@1FS) 48 smpl AES87(tms) =	
Session Sinks Global	
Safety Playout Delay (@11*5) 0 SSM (requires IGMP v3)	
Network	
Mulli-Interface mode	
Name Primary	
Type Zerocom / Address 118 254 113 254 Hormask 255 0.0 0	
Gateway 0.0.0.0	

This is the default device home page.

This web interface can control all aspects of the network audio settings as well as creating and managing audio streams between devices.

For a complete guide to using the web interface please visit:

https://merging.atlassian.net/l/cp/Nu7GMDoh

Making audio streams





Set and configure where network audio stream is mapped to local device audio





Aneman audio network manager

Whilst Glensound's RAVENNA/AES67 devices can be entirely controlled from the web page they are also fully supported in Aneman.

Aneman is a software tool for easily managing RAVENNA/AES67 networks (similar to Dante controller).

Downloading and installing Aneman

Download and install Aneman here: <u>https://www.merging.com/products/aneman</u>

Please see the Aneman user guide for a complete manual:

https://www.merging.com/uploads/assets/Installers/KHEPRI_X.0.5_HotFix4/October20 22/Aneman/ANEMAN%20User%20Manual.pdf

Using Aneman

This is the Aneman world, device and matrix view.





Updating device RAVENNA firmware

Ways to access the firmware update page

In a browser go to port 8080 of the device to access the firmware update page.

• Using the device DNS name

http://<device name><_serialnumber>:8080
Example Vittoria DR serial number 001 with RAVENNA module in slot B:

http://vittoria_b_001:8080

• With a static IP address

Example for unit with a static IP address:

http://192.168.0.1:8080

• Using Aneman (Audio network manager)

See page 6

Updating firmware

This is the firmware update view.

Choose 'Select File' to open the file browser



File will be called 'firmware_update.<Device_name>'

Here is an example of a firmware file for a Glensound Bella 32



Choose 'Update' to begin update process

Update in progress – Do not interrupt power to the device



Update successful – Choose reboot to finish update process. Firmware has now been updated



Recovering device with unknown IP address

There are a few different methods, perhaps the simplest method is with a few Powershell commands (if you have a Windows PC).

- 1. First you should connect the device's Ethernet interface directly to your PC NIC (so no network switch is between them).
- 2. Open PowerShell
- 3. Run the command: dns-sd -B _http._tcp
- 4. Wait a few moments to see the device name appear (e.g Beatrice_R8_1483)
- 5. Press Ctrl+C to stop the command
- 6. Now, at the new prompt, type the next command to get the IP address: Resolve-DnsName -Name Beatrice_R8_1483.local
- 7. It should reveal the IP address of the device
- 8. Now you can change your PC's NIC to be in the same IP range (in the example case the PC would be set to something like 10.10.10.5), and then the webpage should be accessible again.
- 9. Change it's IP back to something else / or enable DHCP

Here is an example with a Beatrice R8 Ravenna device. (In step 5 you will need to put the name of your device that was discovered in step 3)

🔀 Windows PowerShell X + 🗸						
Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.						
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows						
PS C:\Users\Alex> dns-sd -B _httptcp Browsing for _httptcp Timestamp A/R Flags if Domain 10:34:04.934 Add 2 4 local. PS C:\Users\Alex> Resolve-DnsName -Name Beatric	ce_R8_1	Servico _http. 483	e Type _tcp.	Instance Name Beatrice_R8_1483		
Name	Туре	TTL	Section	IPAddress		
 Beatrice_R8_1483.local	 А	 120	Answer	10.10.10.3		
Name : Beatrice_R8_1483.local QueryType : NSEC TTL : 120 Section : Additional NextDomainName : Beatrice_R8_1483.local TypeBitMap : {0, 0, 0}						
PS C:\Users\Alex>						

Useful links

Various useful resources

https://www.RAVENNA-network.com/downloads/

Network considerations when using RAVENNA https://merging.atlassian.net/l/cp/mWmiY9BT