Glensound

RAVENNA/AES67 quick-start guide

Getting started with Glensound's RAVENNA/AES67 products

Contents

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

Document changelog

V.1 Initial release	17/11/22
V1.1 Included 2110-30 conformance level	03/02/23

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://vitoria_b_001.local/advanced
```

- With a static IP address

Example for unit with a static IP address:

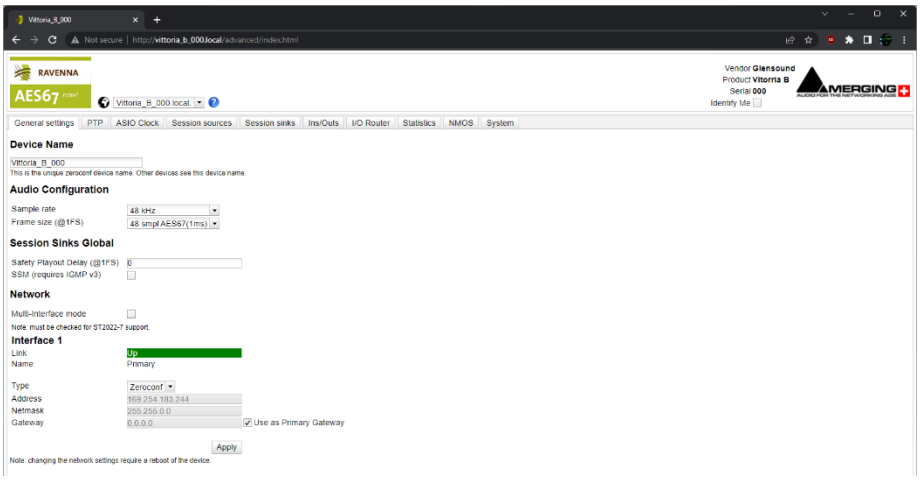
```
http://192.168.0.1/advanced
```

- Using Aneman (Audio network manager)

See page 5

The management interface

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



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

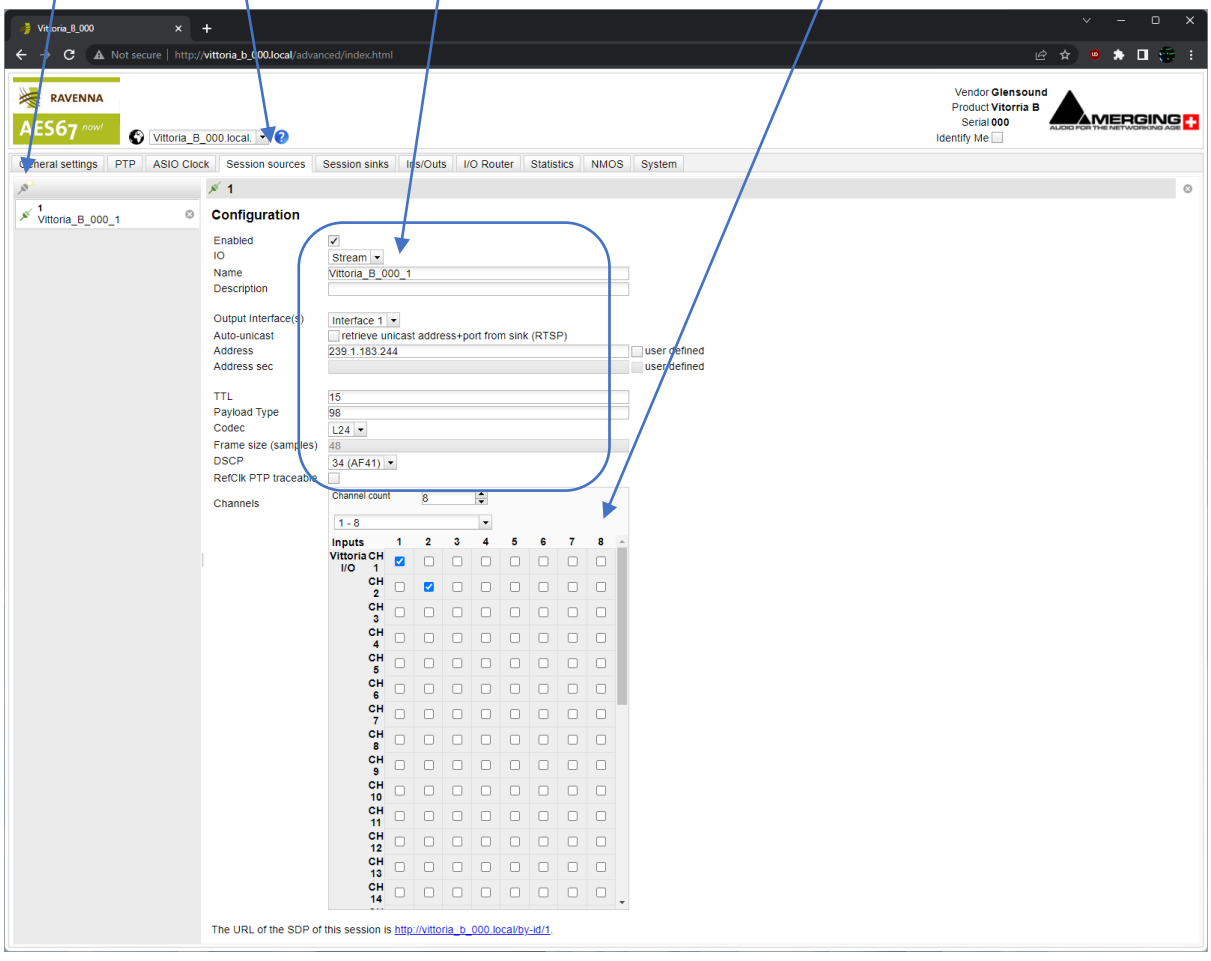
Making audio streams

Navigate to 'Session sources' page

Input desired stream configuration

Select audio channels to send

Select 'create session' button



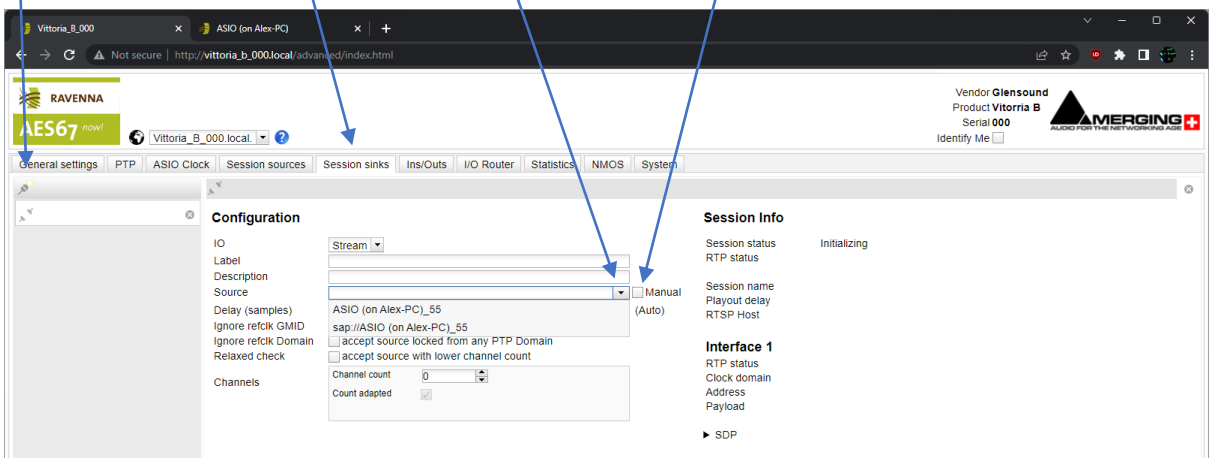
Receiving audio streams

Navigate to 'Session sinks' page

Select 'Manual' to manually input address and SDP descriptors

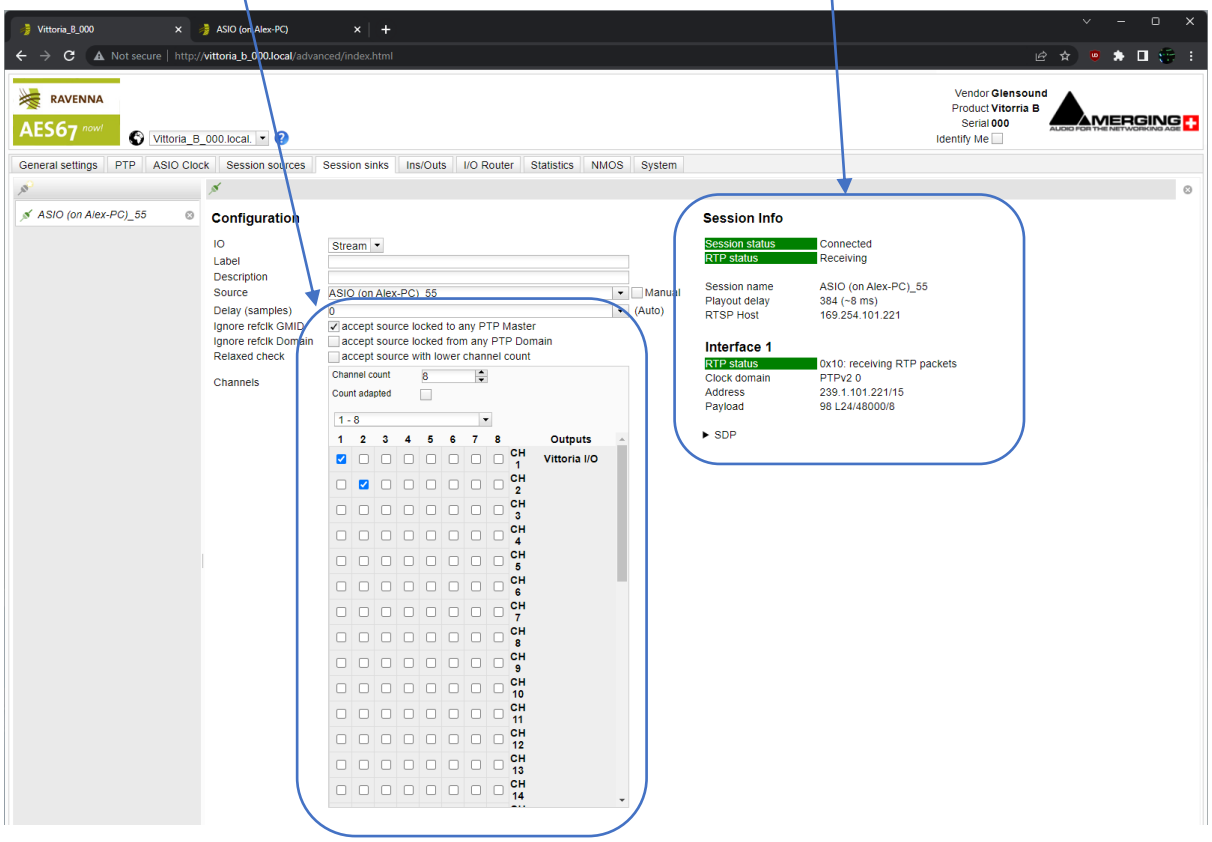
Select stream from drop down menu

Select 'create session sink' button



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

Session info



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

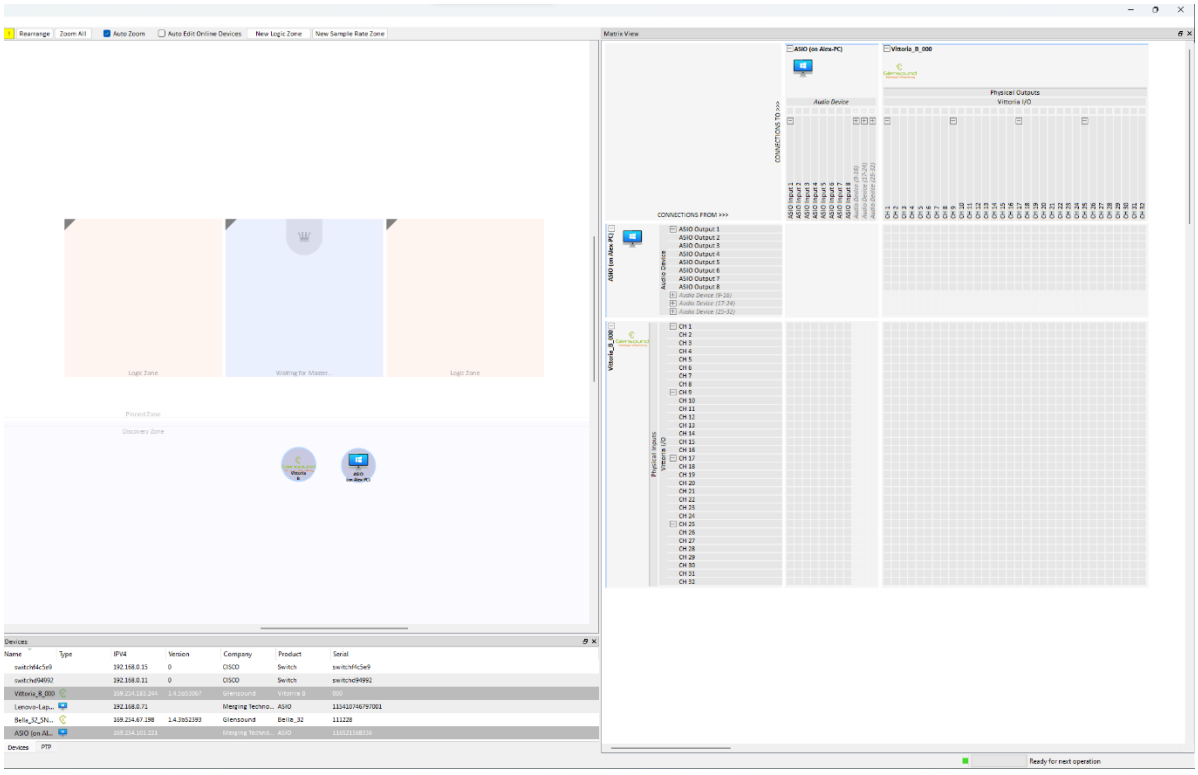
Download and install Aneman here: https://www.merging.com/products/aneman

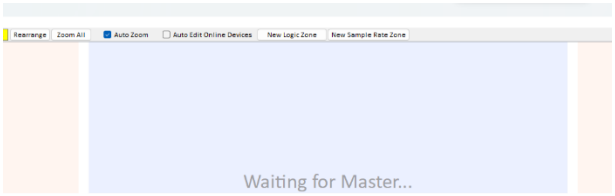
Please see the Aneman user guide for a complete manual:

https://www.merging.com/uploads/assets/Installers/KHEPRI_X.0.5_HotFix4/October2022/Aneman/ANEMAN%20User%20Manual.pdf

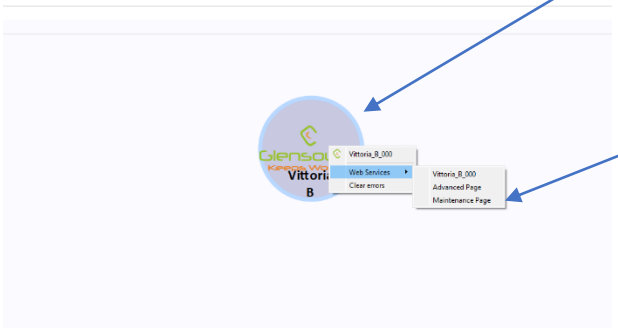
Using Aneman

This is the Aneman world, device and matrix view.



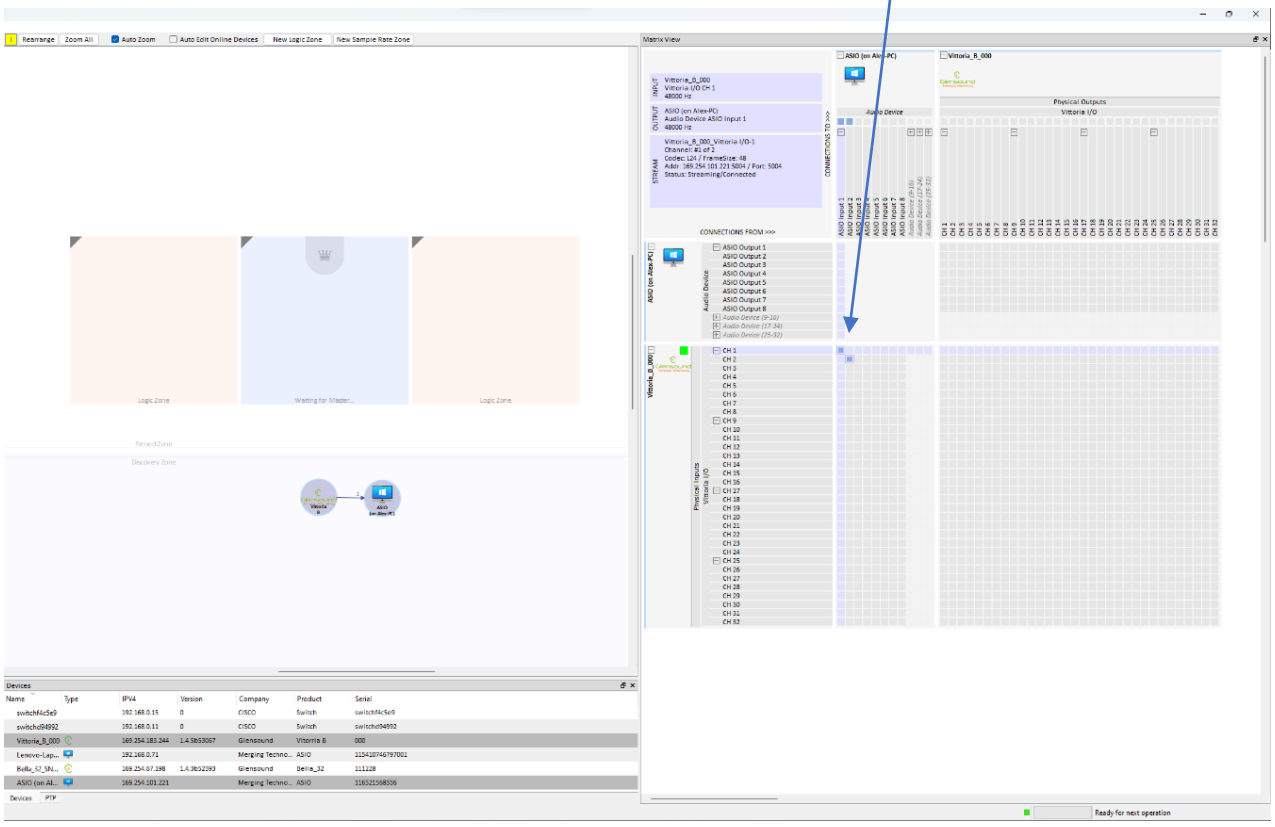


Right click device for shortcut to advanced web page



'Maintenance page' is for updating device RAVENNA firmware

Select matrix crosspoints to easily create audio pathways between devices



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://vitorria_b_001:8080
```

- With a static IP address

Example for unit with a static IP address:

```
http://192.168.0.1:8080
```

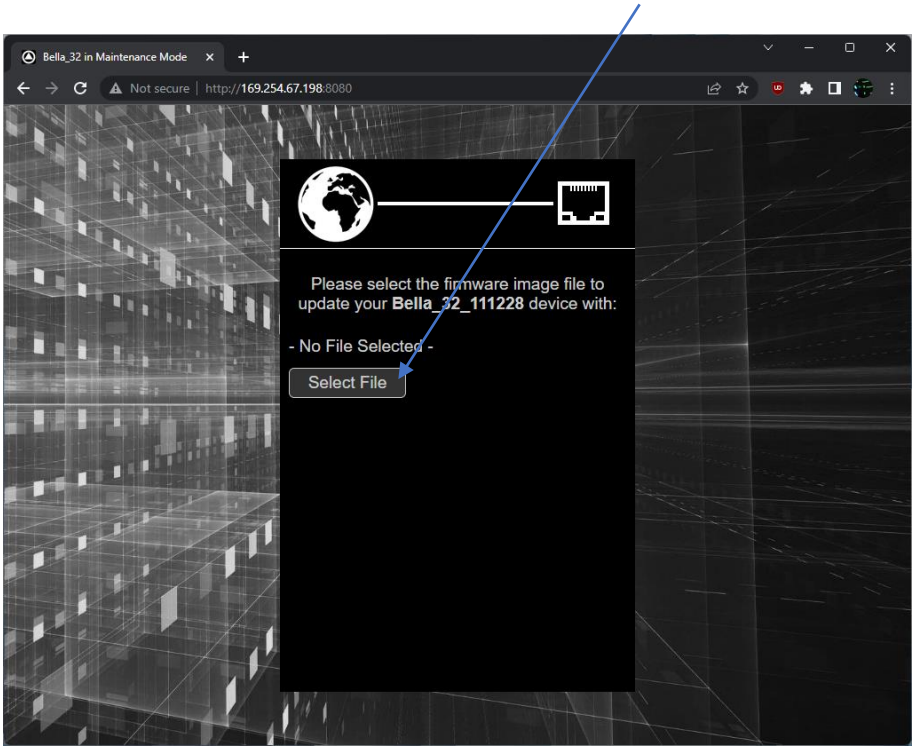
- Using Aneman (Audio network manager)

See page 6

Updating firmware

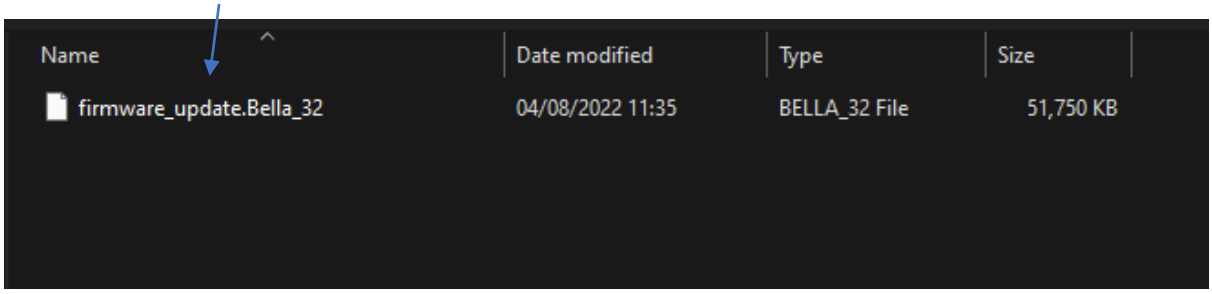
This is the firmware update view.

Choose 'Select File' to open the file browser

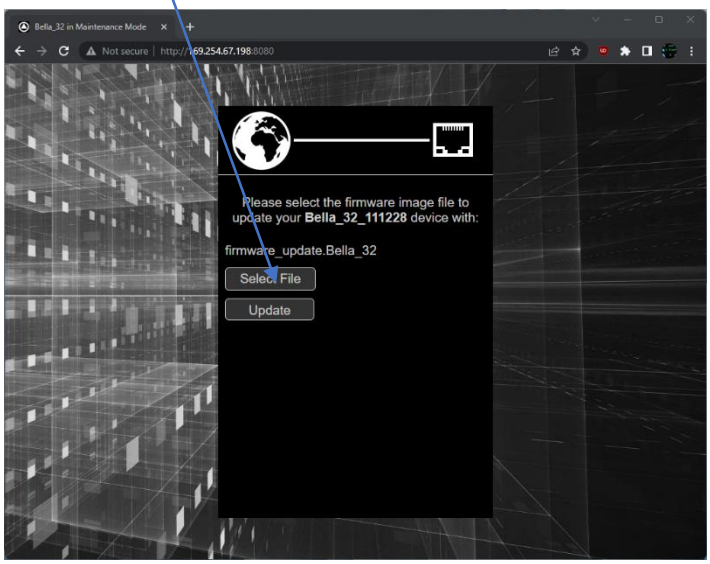


File will be called ‘firmware_update.<Device_name>’

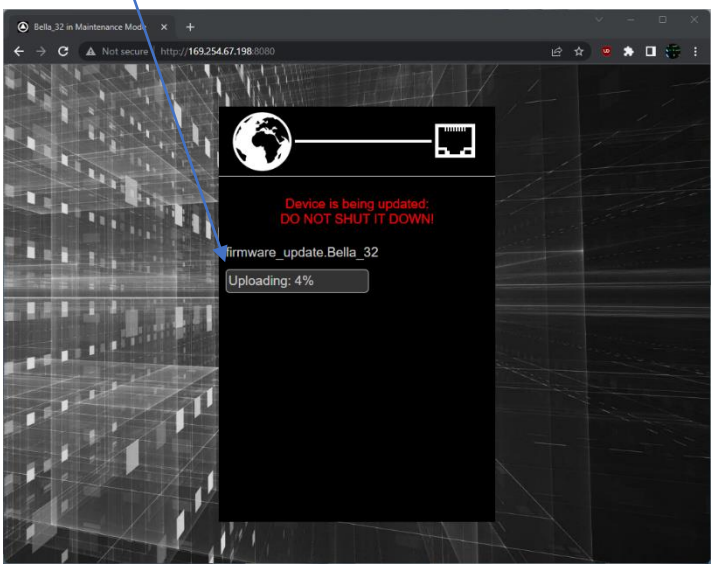
Here is an example of a firmware file for a Glensound Bella 32



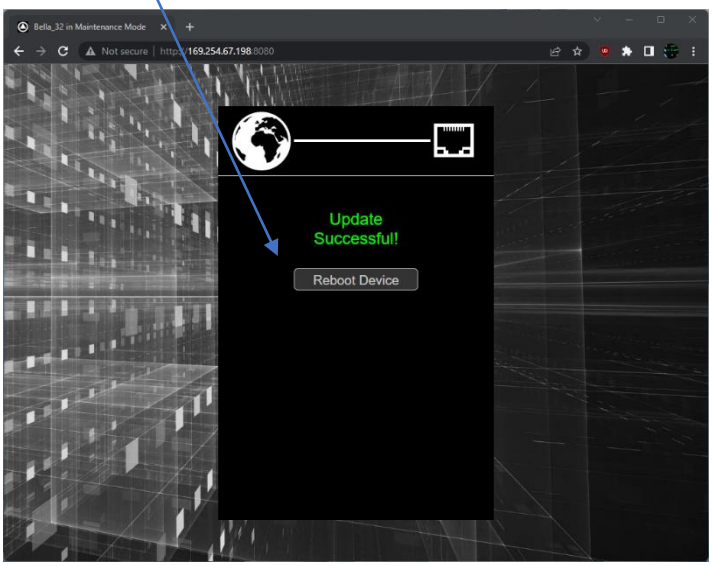
Choose ‘Update’ to begin update process



Update in progress – Do not interrupt power to the device



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



Useful links

Various useful resources

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

Network considerations when using RAVENNA

https://merging.atlassian.net/l/cp/mWmiY9BT