### VRTY EDUCATION THROUGH VR

## GUIDE FOR VRTY STREAMER BOX







The VRTY Streaming Box helps with faster project streaming in a classroom.

- your Streamer Box.
- WiFi at a time.

- need.

• Create projects on the VRTY platform and download the project to

• The Streamer Box sits locally and connected to your IT system. • Up to 30 devices can connect to the Streamer Box via your internal

 Viewers select your project and start viewing. • Each Streamer Box comes with an SD card (16G storage standard), so you can hold as many VRTY projects as you want on the Box (dependent on your SD card GB size).

• Each Streamer Box can be purchased as many additional as you

• Note: Streamer Box hardware components may change from time to time depending on supply and availability.



### Hardware Specification

The VRTY Streamer box is built on top of third party single-board computer called Raspberry Pi or alternatively Orange Pi. It uses the AllWinner H6 SoC, and has 1GB LPDDR3 (shared with GPU) SDRAM.

### **Software Specification**

The VRTY streamer box uses Ubuntu core as an operating system. Ubuntu Core is a lean, strictly confined and fully transactional operating system. We have designed it from the ground up, to focus on security and simplified maintenance, for appliances and large device networks.

The VRTY streaming server will be pre-installed on each Streamer Box. This streaming server is light yet powerful enough to stream VR contents to up to 30 students concurrently. The VRTY development team will constantly provide new updates and maintenance remotely and streamer box can be automatically updated.

Users will be able to stream VRTY projects from the streamer boxes through device browsers. Supporting browsers include Chrome, Safari and Edge.

# Specification



CPU	H6 Quad-core 64-b
GPU	<ul> <li>High-performance</li> <li>OpenGL ES3.1/3.</li> <li>Microsoft DirectX</li> <li>ASTC(Adaptive Set</li> <li>Floating point op GFLOPS</li> </ul>
Memory (SDRAM)	1GB LPDDR3 (share
<b>Onboard Storage</b>	TF card (Max. 32GE
Onboard Network	10/100M/1000M E
Network Chip	RTL8211
Audio Input	MIC
PMU	AXP805
USB 2.0 Ports	One USB 2.0 Host,
Low-level peripherals	26 Pins Header
GPIO(1x3) pin	UART, ground.
LED	Power led & Status
IR Receiver	Yes

it ARM Cortex™-A53
e multi-core GPU Mali T720 0/2.0/1.1 11 FL9_3 calable Texture Compression) eration greater than 70
ed with GPU)
)/MMC card slot
hernet RJ45
one Micro USB 2.0
led



- network used by stream box: access to.

b. The network must have access to the internet. 3. Stream box will need 5 minutes to initialise all its components and try to connect to VRTY server over

- the internet.
- the left.

## Instal ation

1. Power up streamer box with the provided power cable.

4. Log into pro.vrty.io with the approved teacher account and navigate to Streamer page via the Menu on

5. Click Devices to find out if the stream box is online. 6. If the stream box is still offline, it means stream box having difficulty to communicate with the VRTY server. The connection to VRTY server may be blocked by the school firewall. Please check page 5 for whitelisting VRTY platform. 7. If stream box is still not online, please go to page 6 for entering proxy settings.



# 2. Connect streamer box to the school network with a **CAT6 cable**. There are 2 requirements for the

### a. The network must be the same network as the WIFI network that the teachers and students can get





- <u>https://\*.vrty.io</u>
- <u>https://vrty.io</u>

- https://pro.vrty.io
- https://streamer.vrty.io
- https://learn.vrty.io
- https://vrty.io

This knowledge base session outlines the URLs addresses that need to be unblocked on your organisations firewall.

Most VRTY Services should be accessible from inside your network but on some occasions your IT Staff will need to setup rules on the firewall/proxy server to allow the traffic through.

A number of firewalls allow you to insert a general rule to allow traffic to a whitelisted domain. To whitelist VRTY and all our cloud based services via general rule, please whitelist the following addresses:

If wildcard character is not accepted in the firewall rules, please whitelisting the following address:





# settings from your system administrator.

<sup>3</sup> Manage Proxy Settings	×
Active	
URL	
proxy.det.nsw.edu.au	
Port	
8080	
User Name	
Teacher	
Password	
•••••	
Authentication	
NTLM	*
Туре	
HTTP	*
	Save

# **Setup Education Proxy Settings**

This Australian Government (DET) Schools may experience issues when connecting to VRTY servers, connecting to the VRTY Media Store, and downloading projects to streamer box. You will need to have the appropriate proxy

To change your proxy settings, open the streamer box local site. IP address can be found from VRTY platform. Click on the Manage Proxy button on the top right corner of the local site.

> A form will be displayed on the screen as shown on the left. Tick active and enter all the details as required for the state education department.

- network
- department proxy settings

• URL - proxy url, e.g proxy.det.nsw.edu.au for NSW • Port - proxy port, default value is 8080 User Name - A valid user account to the education department

 Password - Credential password of the valid user account Authentication - Either Basic or NTLM depends on the education

 Type - Again this depends on the education department proxy settings, default value is HTTP



## IF YOU ENCOUNTER ANY ISSUES WHICH CANNOT BE SOLVED, PLEASE DO NOT HESITATE TO CONTACT US BY SENDING EMAIL TO <a href="mailto:support@vrty.io">support@vrty.io</a>



## HOPE YOU HAVE A WONDERFUL JOURNEY WITH VRTY

## THANK YOU FOR CHOOSING US



V R T Y



