# **Onsite Encoding Requirements**

## Overview

This document will cover the technical requirements for a successful webcast when streaming directly from a venue (client office, theater/hall, hotel conference center, or temporary space such as

an open field). If a location (venue) cannot accommodate any items listed, this must be addressed

during the first technical call with all parties.

# **Technical Requirements for Onsite Streaming Services**

 An IP Address for each stream requested. Standard set-up is a primary and secondary stream for redundancy purposes which, would mean two (2) assigned IP Addresses on two

ports. All cabling such as CAT 5/6, is to be provided by a venue representative "cable to table".

- Each IP must have open access to the internet with the below listed requirements in place
  - Publicly accessible, Static IP is preferred over a Dynamic IP this is preferred but private IPs with QoS will work.
  - Ports 80 and 1935 must be open and remain open for the full duration of any testing or event.
  - Firewall, gatekeeper or other security protocols must be disabled if in place.
  - IP, Alternate IP, Gateway, Subnet Mask, DNS, Alternate DNS.

 Network connectivity – Each encoding unit must have an individual port assigned that travels

a unique path out to the internet. If this cannot be accommodated, we recommend traveling

through separate network switch at a minimum.

- Bandwidth requirements are no less than 5 Mbps per connection with standard requirements and no less than 10 Mbps per connection for HD requirements.
- Communications port We recommend a wired third port for a communications laptop.
  This

is to allow for open communications without impacting any encoding device. Should this be

unavailable then a wireless network may be used in its place with the understanding that a

shared wireless network may have congestion due to usage and image communications.

• One (1) dedicated phone line that can make national and/or international phone calls with an

accompanying handset

• Dedicated clean power circuit of 20 AMPs with two (2) power strips/surge protectors provided by venue.

Detailed network requirements documentation can be accessed here:

https://webcasts.com/networkresources/

# **Broadcast Signal Requirements**

The Audio Video signal requirements should be shared with any vendor secured by a client.

• Two (2) identical mixed program feeds via HD/SDI with embedded audio is recommend as a

broadcast standard. HDMI as a prosumer source may be accepted due to limitations with a

specific venue or A/V crew.

- One (1) XLR mixed audio feed for audio back up.
- All Cables to be provided by the Audio/Video partner(s).

## **Location/Venue Logistics & Requirements**

• Work area to have one (1) six-foot table with chairs accommodating up to three individuals.

Additional tables and chairs may be required should there be a need for additional equipment and/or personnel.

- Venue IT representative to be available at the location for all test times as well as the event(s)
- Any restrictions concerning access to location or venue must be communicated on the first

technical call by the client or location (venue) representative.

## Glossary

• **IP Address:** A unique string of numbers separated by periods that identifies each computer

using the Internet Protocol to communicate over a network

• Static IP / Dynamic IP: When a device is assigned a static IP address, the address does not

change. Most devices use dynamic IP addresses, which are assigned by the network when

they connect and change over time

• Quality of Service (QoS): A control mechanism to provide high-quality

communication over a

best-effort network by over-provisioning the capacity so that it is sufficient for the

expected peak traffic load

• **Network Switch:** A networking device that connects devices together on a computer network by using packet switching to receive, process, and forward data to the destination

device

• Megabits per second (Mbps): A measure of data transfer speed (a megabit is equal to one

million bits)

- HD/SDI: High-Definition / Serial Digital Interface
- HDMI: High-Definition Multimedia Interface

Revision #4 Created 14 October 2022 15:34:58 by Matt Engel Updated 23 July 2024 13:13:52 by Matt Engel