

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 #3

Created 22 July 2024 17:19:00 by Matt Engel

Updated 23 July 2024 13:14:36 by Matt Engel