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## Network Infrastructure Pre-Qualification Checklist



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# Network Infrastructure Pre-Qualification Checklist

## StreamNet Audio-Only System

- 10/100BASE-T auto-sensing Fast Ethernet switching ports
- IGMP v2 or v3 support
- IP IGMP v2 or v3 Querying
- IP IGMP v2 or v3 Snooping
- Multicast support with Filtering
- IP Routing

## StreamNet Audio Video System (Uncompressed)

- 100/1000BASE-T auto-sensing Gigabit Ethernet switching ports
- 10 Gigabit Ethernet uplink modules for Multiple Switch Configuration
- IGMP v2 or v3 support
- IP IGMP v2 or v3 Querying
- IP IGMP v2 or v3 Snooping
- Multicast support with Filtering
- IP IGMP Immediate-Leave or Fast-Leave implementation
- Jumbo Frame of 4096 or greater
- IP Routing
- Spanning Tree Rapid Mode or Disabled

## StreamNet Motion XT Audio Video System (Compressed Video 60mb, 45mb, 30mb, 15mb)

- 10/100BASE-T auto-sensing Fast Ethernet switching ports
- Recommended Gigabit uplink ports for multiple switches in network Configuration
- IGMP v2 or v3 support
- IP IGMP v2 or v3 Querying
- IP IGMP v2 or v3 Snooping
- Multicast support with Filtering
- IP IGMP Immediate-Leave or Fast-Leave implementation
- IP Routing
- Spanning Tree Rapid Mode or Disabled

## Global Switch and Uplinks requirements

- Review IP IGMP Query and Election processes before configuring switches
- Review Switch Uplinks to ensure Bandwidth requirements are met for overall system design
- Calculate the needed Multicast Address Table requirements for overall system design

# Network Infrastructure Pre-Qualification Checklist

## Infrastructure Questions

### Is this a pre-existing network

+YES

What Switch Topology has been used \_\_\_\_\_

What is the available Bandwidth on all Network Uplinks between switches \_\_\_\_\_

Is there a Layer 2 Topology Diagram available for the existing network \_\_\_\_\_

How many Source Encoders will be used in the Project \_\_\_\_\_

How many Video Decoders will be used in the Project \_\_\_\_\_

Where will the Source Encoders be located in the Topology \_\_\_\_\_

Where will the Video Decoders be located in the Topology \_\_\_\_\_

What are the maximum distances within the network \_\_\_\_\_

Future Scalability, will the system need to scale at some point \_\_\_\_\_

..... YES

What is the Maximum expectation \_\_\_\_\_

Verify the Bandwidth Requirements on all switches and Uplinks \_\_\_\_\_

Verify the total number of Multicast Addresses needed for the entire project \_\_\_\_\_

+NO

How many VLANs will be used in this Topology \_\_\_\_\_

- If multiple VLANs, VLAN and Multicast Routing will need to be implemented

How many Source Encoders will be used in the Project \_\_\_\_\_

How many Video Decoders will be used in the Project \_\_\_\_\_

Where will the Source Encoders be located in the Topology \_\_\_\_\_

Where will the Video Decoders be located in the Topology \_\_\_\_\_

What are the maximum distances of the proposed network \_\_\_\_\_

What Switch Topology will be used (Star Topology recommended) \_\_\_\_\_

## Fiber Uplink Considerations

### Is there pre-existing Fiber cable between sites

+YES

What is the Modal Bandwidth of existing Fiber Cable \_\_\_\_\_

What do the Fibers terminate to on each end \_\_\_\_\_

What is the current Bandwidth Utilization of the existing Fiber \_\_\_\_\_

+NO

What is the Distance between sites to be connected \_\_\_\_\_

What is the Bandwidth requirement for the StreamNet Encoders and Decoders \_\_\_\_\_

## Routers and Wireless Access Points

- Verify that the IGMP/Multicast functions can be disabled on the Router or Wireless Access Point

## Static or DHCP Addressing

- DHCP Server is located on the same segment as the StreamNet Devices
- DHCP Server address pool is configured for IP Addresses for the total number of StreamNet devices
- DHCP Server is configured to assign the correct IP Address and Subnet Mask for the Project
- All IP Addresses reside on the same Subnet Mask for proper StreamNet communication