



General

- There are no PoE speakers and there is no interest in migrating to a complete PoE/Network based system.
- STEM Building is connected to the High School and is on a different IP Subnet.. It must connect with the High School head end and receive all High School announcements.
- Speakers and wiring are all installed and will not need to be included in the scope of work.
- Core server contains all configuration files and allows for centralized backup.
- System must support the ability to page to all zones, individual zones, and individual speakers.
- System must integrate with existing analog speakers. Most classroom speakers are Telecor STB-5. Outdoor and common area speakers all differ on manufacturer, but still are analog speakers.
- Multiple event schedules for bells or other messaging
- The ability to use sound files for bells or prerecorded messages.
- The system must be capable of utilizing standard sound files (.WAV or .mp3) files for sound generation. The system must come equipped with a minimum of 20 sound selections, including multiple bells, custodial, and emergency tones.
- The system must interface with our existing VoIP system (Cisco and/or Shretel).
- The system must allow for the owner to call the manufacturer directly for support and not required to work through a reseller.
- The system must consist of a central equipment cabinet, system server running computer based intercom operations software, power supply, zone cards, Executive handsets, amplifiers, classroom loudspeaker assemblies, and all associated material, hardware, wiring, and options as described herein to provide a complete working system which shall meet the specified requirements.
- The system must provide the facilities for:
 - Paging
 - Sounding emergency signals
 - Timed event signals
 - Control and distribute multiple program channels to individual classrooms, selected groups, or all classroom speakers.
- System must get its timing from a District Network Time Protocol (NTP) server. All network devices source their time off the core router acting as the NTP server.
- The system must use standard 25-volt technology.
- Owner will provide all necessary Uninterruptable Power Supplies (UPS) units. Vendor must inform the owner what is required at least three weeks prior to installation date.
- Unlimited bell schedules
- STEM building location must be able to receive all pages made at the High School as if they were in the building.

Remote Access to the System

- Web Interface:



- The system must provide password protected web programming from any internet connection.
- The web interface must include the minimum functions:
 - Bell schedule adjustment
 - Tone Configuration
 - The ability to create, upload and distribute audio files to a single site or multiple systems at the same time. Audio files include voice recordings, site created or downloaded files
 - Multiple levels of access for local site level access and district access e. Ability to view system log files
 - Systems that do not provide a constant, web based and web accessible programming option for the end user will NOT be accepted.

Configuration

- The system must provide password protected Remote Configuration features via a TCP/IP network based LAN or WAN including:
 - Speaker card configuration
 - Room configurations
 - System Diagnostics
- Installation must include replacing the head end unit, connecting 25% of the speakers to the Head end, training on configuring the software,

Support and Training

The vendor must provide a minimum of 20 hours of training for District personnel on the proper operating procedures for the system

Warranty The vendor must provide warranties with any equipment installed to complete this project. The warranties must protect the equipment from defect for a period of three years from the date of final acceptance. Warranty will include labor for a period of one year.

Initial Purchase

- Core Equipment
 - The system must consist of a central equipment cabinet, system server running computer based intercom operations software, power supply, zone cards, Executive handsets, amplifiers, classroom loudspeaker assemblies, and all associated material, hardware, wiring, and options as described herein to provide a complete working system which shall meet the specified requirements.
- High School
 - Head End Unit
 - RAU for North Commons
 - RAU for Union Collegiate Academy



Centralized Intercom/Paging System Design

Union Public Schools

- RAU for STEM Building (Not physically located at High School).
- RAU for new construction will be purchased at a later date, but system must be able to support the 4 to 5 remote locations.
- All amps necessary to successfully provide at least 10 dbi to each speaker
- All cards, cables, connections needed to connect the intercom to the phone system.
- Alternative Education
 - Alternate bid and may be purchased at a later date
 - System must support additional site locations
- Ninth Grade Center
- Alternative Education
 - Alternate bid and may be purchased at a later date
 - System must support additional site locations