IntraCom Systems, LLC 20337 Via Medici Porter Ranch, CA 91326 Sales / Support: (818) 357-2347

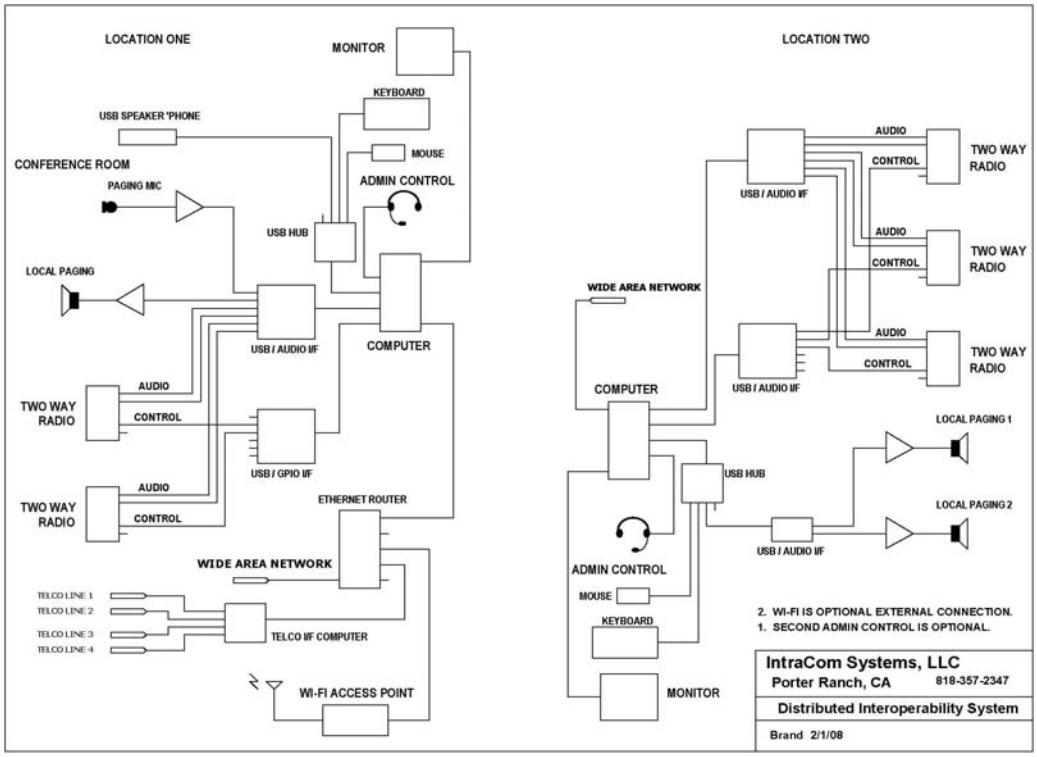
VCOM Interoperable Platform

The VCOM Interoperable Platform offers a distributed and easily customizable solution for integrating disparate communications systems in multiple locations into a seamless and rapidly re-configurable solution. The heart of the system is the VCOM Virtual Matrix Intercom that has found wide acceptance in the commercial, industrial, government, and entertainment markets. This unique system offers all of the operational features normally found in hardware central matrix systems in a server/distributed client format running on standard computer hardware and IP network topology.

The use of standard off the shelf interface hardware in conjunction with VCOM's unique software package allows an unprecedented level of system integration while costs are kept to a minimum and rapid obsolescence is eliminated. System upgrades and changes are as easy as a simple software upgrade and system expansion is easily accomplished by the use of additional standard hardware and simple administration software.

The distributed nature of the platform architecture allows individual communications systems to be located anywhere that a network connection can be established and the interconnection of these systems can be controlled from any location or multiple locations. If the master administration site is lost, another one can be established from anywhere in a matter of seconds, even from a wireless laptop!

Initial setup involves programming the Virtual Matrix using the VCOM System Administration application and configuring the necessary audio I/O and GPIO hardware. The audio interface is connected to the radio audio input and output as determined by the individual radio's configuration. The GPIO interface is connected to the radio according to the individual radio's push to talk configuration. A typical system block diagram is below.



The functionality is as follows:

Using the VCOM System Administration application the interfaced radios are set up to be tied together in the desired overall configuration. This can include any combination of source radio connected to any destination radio and talk/listen, talk only or listen only modes can be programmed. The configuration can be easily changed at will. Upon audio being received by a source radio the audio will be passed to the destination radio or radios and the associated push to talk command will be sent to the destination radio or radios. The programmed configuration will remain in force until it is changed by the administration programming software.

The distributed topology of the system allows the individual source and destination radios to be located anywhere that a common network connection is available. Sources and destinations other than radios, such as telephone lines, local hardwire intercoms, or paging systems may also be accommodated and also can be located anywhere a network connection is available.