

Why an Infrastructure?



"The infrastructure should be viewed like the tower of a computer system. The infrastructure of a computer is everything that resides within the confines of the computer case, i.e. motherboard, power supply, CPU, expansion cards, expansion ports, etc. All of the other devices that make up a computer system are peripheral, i.e. monitor, keyboard, mouse, printer, scanner, etc. The CHC Infrastructure consists of the wiring layout, hardware systems and software that support the peripherals, with great concern placed on future expandability and upgrading.



Like the foundation, frame, drywall, and roof of a physical structure, the electronic structure needs to be planned for and engineered to accommodate similar future expectations. But opposed to popular belief, CAT5 and Coax wiring does not equal an automated home. CHC has developed it's business solely on the design, integration, and programming of the core "infrastructure" system.

Once the infrastructure has been established, adding peripheral electronics down the road is as easy as purchasing the device and plugging it in, much like adding a printer to your desktop. As part of the CHC Infrastructure Solution we design for every wire that will be necessary to integrate all of the local user electronics in the future. The Rough-In & Wiring phase is the most critical service an integration company can provide. A complete and expert wire design will save more money down the road than any other part of the project. Trying to get wire to a desired location will cost 10 times more after construction than it would prior to drywall.



The integration infrastructure is the brain by which the entire house functions and communicates. Similar to a computer, all devices are connected together to achieve cohesive communication and control. The CHC home operating system (CHC Home OS) software provides web based control of these devices through a plug and play interface.



The easiest way to understand an integrated home infrastructure is to picture all of the equipment in a central room

called the "Head End." This room has four walls, is located centrally in the home, and is the area to which all wires are pulled. In the Head End all of the wire connections are made to every other room in the house, i.e., the phone system, computer network, video distribution, security system, high speed internet, and every automated device in the home. The layout and organization of this room is critical to the success of the project. It is important to ensure that all "local" devices are connected properly through coordination with various contractors, and that the systems to which they are connected to are clearly labeled for future maintenance.

The Complete CHC Infrastructure Solution includes the installation of all of the components and termination of all of the wires in the "head end" room. On remote projects, CHC will recommend using a local sub contractor to install components and terminate all wires in the infrastructure room. We have used many different types of subcontractors to perform this work, i.e. Security, Electrician, Computer Network, AV, Phone, Low Voltage. CHC will provide all instructions, coordination, and training to ensure that the installation is complete and correct.

The CHC Home OS has been programmed and engineered to achieve a balance of the most powerful control capabilities in an easy to use, intuitive and familiar navigation system. CHC web control is designed for both Pocket PC and full size screen displays. The software has plug and play support for every electronic component that CHC has certified and recommended in it's peripheral solutions. For a list of all of the supported features of the CHC Home OS, please see the "Client Needs Assessment" document.



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