



# AVoIP By Design

There are a number of variables in how a networked AV system will be implemented. Once the client's IT and cybersecurity teams' needs are met and the network engineering decisions have been made, then the AV systems start getting plugged in and the benefits of flexibility and scalability begin.

Centered around the core of a managed gigabit [network switch](#), this AVoIP system diagram could be used for any number of applications, including workplace, education, entertainment or anywhere content needs to be shown on a multitude of displays in a variety of modes.

Here are four of the most common input sources sent through [encoders](#) to be distributed across the network to be [decoded](#) anywhere that content needs to be seen and heard — and that configuration can change on the fly, either onsite via a workstation or remotely. Whether it's flat panel [displays](#) or [projectors](#) and [screens](#), or any other [sound](#), [video](#) and [control output](#), the options are nearly limitless, as long as you have enough capacity in your [switch](#) (and don't forget the PoE).

Depending on the input hardware and types of displays or audio outputs used, there will be different ethernet ports that need to be allocated. And whether you rely on RS-232 or TCP/IP control will also be a factor to consider in your switch configuration.

Along with the endless possibilities of AVoIP comes a list of variables and questions related to every system design. [Read our eBook](#) on delivering the best AVoIP experience or [contact our design team](#).