As part of our commitment to being a single-source provider of special systems design services, speXsys provides high quality audio-visual (AV) systems design and acoustical analysis for a variety of facilities, including Board Rooms, Conference Rooms, Meeting Rooms, Auditoriums, Network Operations Centers, Classrooms and Lecture Halls, Sports Venues, and Hotel Ballrooms.

The implementation of AV systems starts with a well designed infrastructure to support both current and future needs. It includes quality sound systems and visual displays, as well as a carefully designed control system that automates many functions and allows a user to control all of AV components with a single touch.

SpeXsys consultants work as an integral part of a team with other designers and engineers to develop systems and spaces that will enable a speaker to convey his message without tiring or distracting the audience. We develop audio systems that provide proper sound levels and coverage to facilitate good speech intelligibility. Our selection and placement of video equipment, including projection systems, direct view devices, video cameras, etc., allows the presentation of high-quality visual images, which can be viewed from multiple audience locations. These state-of-the-art multimedia systems incorporate many complex components. To simplify the operation for end users, we design integrated touch-screen control systems that automate and manage audio and video sources, video projectors, motorized projection screens, room lighting, window shades, audio amplifiers, and a variety of other devices.

While the design and selection of the appropriate AV equipment is essential to a successful AV installation, equally critical is the coordination with other design professionals engaged in the project. The architect must design a space of proper size and shape to allow proper viewing of visual displays. The room proportions must support good acoustics and foster good sound intelligibility, and the type of construction must
minimize the transmission of unwanted sound into adjacent spaces. The lighting designer
must provide a system that creates an ambient light level that allows viewing of visual
media and provides the correct color
temperature and mix of light of video
teleconference. The mechanical
engineer must design HVAC systems
that meet appropriate noise criteria
(NC) ratings. This is especially true for
rooms to be used for video
teleconference. Finally, the interior
designer must select finishes and
accessories that enhance rather than
detract from the visual presentation of
the space.

At speXsys, we believe that a rigorous and well-defined design process results in design
documents that accurately reflect our customer’s requirements and clearly communicates
these requirements to the installation contractor. To that end, we have adopted a
structured approach to AV design that breaks projects down into specific, manageable,
and well-defined tasks. The tasks include a detailed Requirements Analysis and Basis for
Design phase, a thorough Design Development phase, the development of detailed
Construction Documents, Bid Support, Installation Management throughout the
implementation of the AV systems, and Systems Acceptance Testing. These tasks are
defined so as to encompass all of the activities required to provide complete and
comprehensive AV construction documents. This approach to design, along with the
experience and technical knowledge of our consultants, allows us to produce AV designs
that satisfy the needs of our clients.

Below is a sample of some of the speXsys projects from the past several years that have
included physical security systems assessments, design and/or implementation
management (listed alphabetically):

- United States Army Corps of Engineers
- Chesapeake College
- Edenwald
- Erickson Retirement Communities
- National Institutes of Health