



DISTANCE LEARNING SOLUTIONS FOR EDUCATION

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IP VIDEO-BASED DISTANCE LEARNING

Within the traditional classroom, there is an inherent flexibility that assists the learning process. This makes the classroom the most effective venue for learning to take place. Students can work individually or in a group. Information can be shared in a lecture or in a discussion. Students learn both from the teacher and from each other. Learning tools and resources can be introduced and removed as needed. Everything can be monitored and facilitated under the watchful gaze of the teacher.



A significant limitation of education over the web, or distance learning, is that typically a large portion of the training is asynchronous - with few of the traditional classroom benefits available. Participating students view the course material on their computer screens and use printed materials to provide much of the basic instructional content in the form of a course text, as well as readings, the syllabus, and day-to-day schedule. Email is used to send messages, assignment feedback, and other targeted communication to one or more class members.

When compared to the classroom, this traditional form of 'distance learning' does not accommodate key educational elements such as 'face-to-face' interaction and real-time discussion with the teacher and with other students. Research comparing distance education to traditional face-to-face instruction indicates that teaching and studying at a distance can be as effective as traditional instruction if a number of features intrinsic to the classroom could be translated into web-based learning. Some of these features include:

- Real-time interaction with the Instructor
- Allowing individual and group work
- Presentation formats incorporating both discussions and lectures
- Resource tools and materials that can be introduced, presented, shared and removed
- Student activity that can be monitored and facilitated by the instructor

All these features are made possible by the implementation of IP Video technology. Although IP Video's impact is just beginning to be felt in the consumer market, it's already making its mark in the world of institutional video, where the infrastructure is more mature. Educational institutions are using IP Video in place of traditional CCTV (Closed-Circuit TV) networks for distance learning, virtual field trips, and event broadcasts.



THE ACCESS MILLENNIUM SOLUTION

Access Millennium specializes in deploying IP Video solutions for advanced learning applications - either by installing brand-new facilities or upgrading existing video and audio facilities to accommodate IP Video delivery. In today's technology-infused learning environment, our IP Video Distance Learning solution returns to the paradigm that works: **the classroom**. But instead of gathering students and instructor together physically in one place, we conquer distance by gathering together digitally in one place; **a virtual classroom**. Our method of synchronous Internet delivery closely matches the traditional classroom model.

IP Video technology enables interactive audio / video conferencing, which provides real time face-to-face (and voice-to-voice) interaction. This is also an excellent and cost-effective way to incorporate guest speakers and content experts. IP Video offers educational institutions new possibilities for extending staff and student training to remote sites, and for delivering fresh and innovative methods for distance learning.



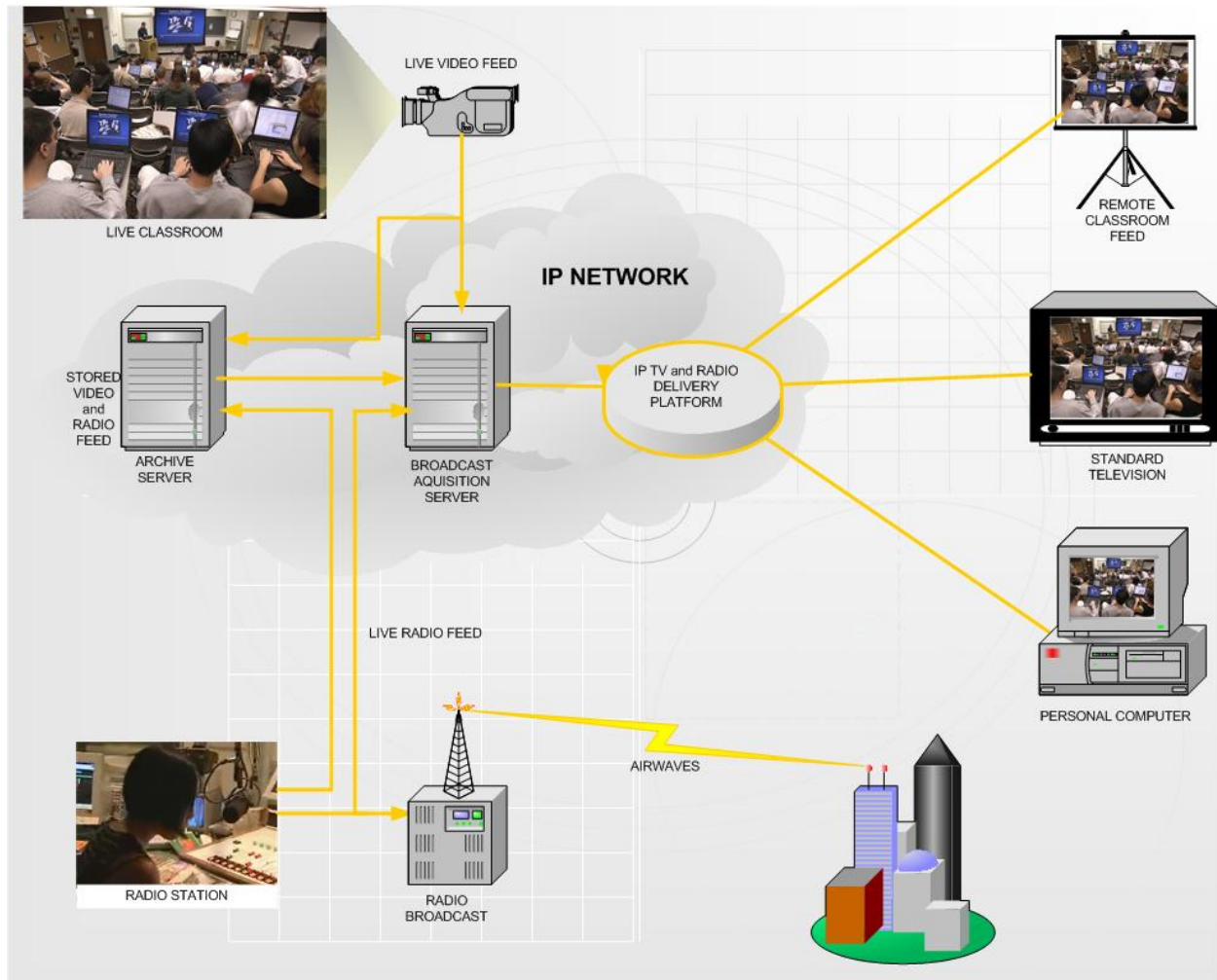
Colleges and universities are increasingly recognizing the need to develop Web-based, anywhere, anytime, access to traditional student services, but they often need help in envisioning what services to provide and how to design them.

The mandate of Access Millennium is to simplify the process by addressing all aspects of the design and deployment of an IP Video distance learning system. The physical construction of multimedia studios, the furnishing, the equipment, the software, the installation, and the operator training, are all addressed.

Our solutions provide ubiquitous access, reliability with built-in fault and environmental tolerance, are optimized for non-intrusive performance across various network topologies, provide administrative tools for real-time or pre-scheduled live and stored video viewing, and utilize a simple user interface for both network managers and end-users.



ACCESS MILLENNIUM DISTANCE LEARNING PLATFORM



- Our architectural team creates the drawings and plans for the studio/classroom, including backdrops, lighting rigs, etc.
- We provide studio furniture custom designed to accommodate your equipment, with easy engineering access, positive ventilation, attractive designs and finishes.
- Our network design team integrates the IP video transmission components into your existing IP network.
- We serve as systems integrators and resellers for the various hardware/software systems and configurations.
- Our course consultants help to convert existing curriculums to multimedia presentations.
- Our training staff brings faculty and students up to speed in getting the most out of the IP Video training system.