

Mississippi FiberNet 2000

- Locations Served:** 4 High Schools (Corinth, West Point, Clarksdale, Philadelphia)
4 College/Universities (Mississippi State for Women, MSU, Mississippi School for Math and Science, ETV Jackson)
- Services Supported:** Multi-point two way interactive video & audio
Commercial Quality
Teacher can reside at any location
3 monitors per classroom
- Uses of Network:** Creative Writing, Oral Communications, German 1, Probability & Statistics, Health
- Partners:** IBM, Apple Computers Inc., ADC Telecommunications Inc., South Central Bell, Northern Telecom

Vision Carolina North Carolina

- Locations Served:** 8 High Schools (Wilmington, Charlotte-Mecklinberg Area)
4 College/Universities UNC-Wilmington, UNC-Charlotte, Gaston College, Cape Fear Community College, Central Piedmont Community College North Center,
1 Hospital (Hanover Regional Medical Center)
- Services Supported:** Multi-point two way interactive video & audio
Fiber dedicated loops
Commercial Quality
Teacher can reside at any location
- Uses of Network:** High School - Spanish III, French IV, Latin II, Physics, Pre-Engineering, Social Studies (Law & Justice)
- Community College - Algebra II, Accounting II, Statistics II, Economics II, Computer Literacy
- Partners:** Northern Telecom, Southern Bell

West Palm Beach Florida

Locations Served: 4 High Schools (Suncoast,
Pahokee, Lake Worth, Atlantic)
1 School of the Arts
1 College (Palm Beach Community
College)

Services Supported: FM1 Fiber
Continuous Presence two way
interactive video & audio
Teacher can reside at any location
Commercial Quality

Uses of the Network: Calculus, French III, Spanish IV,
Dual enrollment courses: Speech,
Sociology
Ministries in America (College)

Partners: Southern Bell

Below is a list by state of the ways schools, colleges and universities are using video in education:

Alabama: University of Alabama -

Math Department: Scientists and Physicists in the Huntsville are teaching high level specialized Math courses to campuses in Birmingham and Tuscaloosa.

Georgia: ClassConnect Trial -

University of Georgia, Georgia Tech, Columbus College, Morris Brown College, Grady High School, Fredrick-Douglas High School, Carver High School, and Columbus High School

Uses: French III taught at High School level among High Schools

African-American Studies taught across all locations by Morris Brown

Kentucky: Murray State and Paducah College

Uses: Nursing (Graduate and Undergraduate)
Business (Graduate and Undergraduate)
English Courses
Special Education (Teaching)
Education Administration,
Math, Political Science and French

Two High Schools

Uses: French, Spanish, Political Science and Honors English

Mississippi: Mississippi FiberNet 2000

Clarksdale High School, Corinth High School, Philadelphia High School, West Point High School, Mississippi State at Starksville, Mississippi University of Women, The Mississippi School for Math and Science in Columbus and Educational Television in Jackson

Uses: German, Probability and Statistics, Creative Writing, Oral Communications and Health

Presently the courses are being taught

at the High School level but instruction may be provided by a College or University.

North Carolina: Vision 2000

Piedmont Area:

University of North Carolina, Central Piedmont Community College, East Mecklinburg High School, Harding High School, and North Mecklinburg High School, Ashbrook High School of Technology, East Lincoln High School, West Lincoln High School

Wilmington Area:

University of North Carolina, Cape Fear Community College, New Hanover High School, John T. Hoggard High School and New Hanover Regional Medical Center

Uses: High School - Spanish III, French IV, Latin II, Physics, Pre-Engineering, Social Studies (Law & Justice)

Community College - Algebra II, Accounting II, Statistics II, Economics II, Computer Literacy

Appalachian State Project under development.

Tennessee: Gibson County

Milan High School, Trenton High School, Gibson County High School, Bradford High School, Humboldt High School

Uses: Calculus, Contemporary Issues, Advanced 9th Grade English

In each state plans are underway to expand the uses of video in education into areas such as: Teacher Inservice, Debate Team activities, Teacher Education (Observations, Teacher Internship, etc.). The uses are growing at a rapid pace as teachers become more familiar with the technology.

**HEALTHCARE
APPLICATIONS & TRIALS**

Application: Teleradiology to Physicians Homes
Customer: Teleradiology Associates
Location: Orlando, FL
Service: ISDN
Vendor: Using other Teleradiology vendor
Use: Allows radiologists to read images from their home. They no longer need to return to the hospital in the middle of the night.
Plans: Customer plans to expand the connections and add new physicians.

Application: Teleradiology Reading Center
Customer: Alliant Health Systems
Location: Louisville, KY and Carrollton, KY
Service: MegaLink
Vendor: CAE/Link
Use: Providing radiology services to small rural hospital from the state medical center. Saving 5K/month in courier fees and radiologist travel time to remote location.
Plans: Provide ISDN to physicians homes, when available, and AccuPulse lines to 14-16 other locations.

Application: Teleradiology System
Customer: Rush Foundation Hospital
Location: Meridian, MS
Service: All internal - plans for ISDN
Vendor: CAE/Link
Use: Sending images within hospital campus
Plans: Customer is planning to have a teleradiology reading center to rural state hospitals.

Application: Macro Surgery
Customer: Crestwood Hospital/Redstone Arsenal
Location: Huntsville, AL
Service: ISDN
Vendor: Videoconferencing NCAP vendor
Use: Providing Videoconferencing with NCAP partner for remote medical education of surgical procedures.

Application: Teleradiology (Image Integration)
Customer: Trident Regional Medical Center
Location: Charleston, SC
Service: MegaLink
Vendor: Martin Marietta and Cemax
Use: Provide teleradiology services between Trident and Summerville Hospital systems.
Plans: Integration of medical cameras and physician access.

Application: Picture Archiving Communication System (PACS)
Customer: St. Vincents Hospital
Location: Jacksonville, FL
Service: ISDN
Vendor: Martin Marietta, AT&T/NS and Cemax
Use: Consolidating 4 MRI, CT and nuclear medicine cameras to PACS system at 4 separate locations
Plans: Add 16 remote community clinics to PACS system and allow physician access from all sites using ATM and SMDS.

Application: Teleradiology and Videoconferencing
Customer: Richland Memorial Hospital
Location: Columbia, SC
Service: MegaLink and ISDN
Vendor: CAE/Link
Use: Providing physician access and teleradiology. Customer is supporting high risk OB clinic, Oncology consults, Emergency medicine and Continuing Medical Education through videoconferencing.
Plans: Expanding telemedicine to remote hospitals and clinics.

Application: VistaNet - Medical Oncology Research Center
Customer: State of North Carolina (Trial)
Location: Raleigh, NC
Service: ATM
Vendor: GTE, Fujitsu, CRAY Supercomputer
Use: Research center to determine correct radiation dosage for cancer treatment.
Plans: To go on state broadband network to share services.

Application: Telemedicine to remote Hospital and Prison
Customer: State of Georgia - Medical College of Georgia
and Dodge County Hospital
Location: Augusta, GA and Eastman, GA
Service: MegaLink
Vendor: CAE/Link
Use: Telemedicine to remote hospital and state
prison utilizing "biomedical telemetric
devices".
Plans: Add other state institutions to share
services.

Application: Distance Learning for Healthcare Education
Customer: University of Tennessee Medical Ctr - Memphis
Location: Memphis, TN
Service: MegaLink, ISDN
Vendor: Videoconferencing NCAP vendor
Use: Providing advanced nursing degrees to
underserved areas to keep nurses in their
local communities.
Plans: Add additional sites.

Application: Image Transfer for Burn/Trauma Center
Customer: University of Tennessee Medical Ctr - Memphis
Location: Memphis, TN
Service: ISDN
Vendor: Videoconferencing NCAP vendor
Use: Image transfer of burn victims to remote
medical sites to UT Memphis burn center.

Application: EDI (Electronic Data Interchange) for
"Stockless Inventory"
Customer: Vanderbilt Hospital
Location: Nashville, TN
Service: MegaLink provided by VAN (Value Added Network)
Vendor: GEIS
Use: Provides "just -in-time" ordering of materials
for hospital purchasing which has decreased
warehousing and inventory costs by 1.6 million
annually.

Application: Remote Medical Transcription
Customer: Cedars Sinai Hospital
Location: Miami, FL
Service: SynchroNet
Vendor: Dictation Equipment
Use: Medical transcriptionists work from home which
decreases the hospital FTEs and eliminates an
outside vendor costing 60K annually.