

TEMPLATE FOR ONENET CAPABILITIES

Par 1:

OneNet, Oklahoma's sole telecommunications provider for higher education, government and research in Oklahoma, is a Division of the Oklahoma State Regents for Higher Education operated in cooperation with the Oklahoma Office of State Finance. This comprehensive network is unlike any other in the country—utilizing fiber optics and wireless technologies to transmit video, voice and data throughout Oklahoma, the nation and the world. OneNet is not a state-owned utility, but rather a state-led partnership among telecommunications companies, equipment manufacturers and service providers. OneNet provides high-speed communications to approximately 70% of public K-12 schools, all vocational-technical schools, all state colleges and universities, public libraries, local, tribal, state and federal governments, rural health care delivery systems and programs engaged in research.

Par 2:

In addition to statewide and regional networking, OneNet is also the primary node connecting the state to the National LambdaRail (NLR). The NLR is a major initiative of U.S. research universities and private sector technology companies to provide a national scale infrastructure for research and experimentation in networking technologies and applications. NLR aims to catalyze innovative research and development into next generation network technologies, protocols, services and applications. Participation in the NLR will strongly improve Oklahoma's ability to compete for hundreds of millions of dollars in federal research money. Already, the University of Oklahoma's recent initiative in high end computing has helped bring in over \$13M in additional funding -- and this number will grow even faster with NLR participation, helping turn Oklahoma into the Research Capital of the Plains. And, as the technologies developed by Oklahoma researchers are transferred to the private sector, these endeavors will lead to significant improvements to Oklahoma's economy.

Par 3:

OneNet's origin was in 1992. It was at this time that voters in Oklahoma approved a statewide capital bond issue that provided \$14 million for the implementation of a statewide telecommunications network. In late 1995, the State Regents approved the OneNet business plan and began implementation in 1996.

Par 4:

Upon its implementation, OneNet focused on establishing the necessary hub sites throughout Oklahoma to provide the infrastructure necessary to support the high-speed telecommunications network. In addition, it moved aggressively to establish an equitable rate structure and enroll customers.

Par 5:

OneNet's state-of-the-art technology and dedicated staff currently provide high-speed communications to a variety of Oklahoma entities such as: 85% of Oklahoma's public K-12 schools; all vocational-technical schools; all colleges and universities; all

public libraries; all local, tribal, state and federal governments; court systems; rural health care delivery systems; programs engaged in research, and businesses.

Par 6:

OneNet serves as the sole provider of Internet and telecommunications access for higher education in Oklahoma. During the 2000-2001 academic year, more than 1,600 computer-based courses and 3,000 interactive video classes were delivered via OneNet.

Par 7:

OneNet provides 74 circuits to the Oklahoma Career Technology Education Centers throughout the state, and last year more than 100 classes were delivered via OneNet. The Career Technology Centers also coordinate and provide free professional development videoconferences on a regular basis that are available to all OneNet clients.

Par 8:

Comprised of 42 "hub sites," OneNet can transmit 1,344 times more information than the average business Internet connection and can transfer 2.5 billion bits of information per second.

Par 9:

The 42 hub sites serve and connect tens of thousands of Oklahomans at user sites such as schools, libraries, courts, hospitals and clinics, government agencies, businesses, and colleges and universities. The hub sites are:

- Ada, East Central University
- Altus, Western Oklahoma State College
- Alva, Northwestern Oklahoma State University
- Ardmore, Ardmore Higher Education Center
- Bartlesville, Tri-County Technology Center
- Chickasha, University of Science & Arts of Oklahoma
- Claremore, Rogers State University
- Duncan, Higher Education Facility
- Durant, Southeastern Oklahoma State University
- Edmond, University of Central Oklahoma
- El Reno, Redlands Community College
- Enid, Northwestern Oklahoma State University Branch Campus
- Goodwell, Oklahoma Panhandle State University
- Idabel, McCurtain County Higher Education Center
- Langston, Langston University
- Lawton, Cameron University
- McAlester, Kiamichi Technology Center
- Miami, Northeastern Oklahoma A&M College
- Midwest City, Rose State College
- Muskogee, Connors State College Branch Campus, Northeastern State University Branch Campus
- Norman, University of Oklahoma

- Oklahoma City, Oklahoma State Regents for Higher Education, Oklahoma State University-OKC, Oklahoma City Community College, Downtown Oklahoma City Consortium
- Okmulgee, Oklahoma State University Technical Branch
- Poteau, Carl Albert State College
- Sallisaw, Carl Albert State College Branch Campus
- Sayre, Southwestern Oklahoma State University Branch Campus
- Seminole, Seminole State College
- Stillwater, Oklahoma State University
- Tahlequah, Northeastern State University
- Tishomingo, Murray State College
- Tonkawa, Northern Oklahoma College
- Tulsa, OSU-Tulsa, Tulsa Community College, OU Health Sciences Center-Tulsa
- Warner, Connors State College
- Weatherford, Southwestern Oklahoma State University
- Wilburton, Eastern Oklahoma State College
- Woodward, High Plains Technology Center

Par 10:

The Oklahoma State Regents have a comprehensive disaster recovery and business continuity enterprise leveraging the capabilities of Oklahoma's integrated statewide telecommunications network and the resources and expertise available through the system of higher education. Serving a majority of the state's education, research and governmental entities, OneNet has the distinct capability of creating a critical mass of technology resources that can be shared to provide a seamless, high quality infrastructure committed to protecting critical data and information of entities including, but not limited to:

- Public safety
- Military
- State and federal government
- Municipalities
- Education and research
- Federal Aviation Administration
- Health and human services

Par 11:

OneNet's strategic operational considerations include comprehensive statewide disaster recovery needs assessment, identification of significant resources and assets, identification and incorporation of best practices, security audits, architectural design, deployment and integration, and analysis and testing. Increasing risks of cyber-terrorism necessitate that states focus on protecting critical data and information assets. Heightened threats against state and national infrastructures require additional protections for disaster recovery and business continuity. OneNet has made the initial investment in a disaster recovery service and has the expertise and infrastructure in place to rapidly expand the

service to support all constituent groups. The unique design, architecture and reach of OneNet provide an ideal mechanism to serve a multitude of constituencies ranging from rural health to advanced research initiatives.

Par 12:

Specifically, OneNet is part of the most advanced research network in the world, a world-class high band-width distance learning network, a major test bed for future technologies, the only integrated state-wide IP-based network in the United States, capable of delivering high speed data and video over the same network lines, and the State of Oklahoma's key to economic development and technology transfer.