

## Glossary

Acceptable Lifecycles	Same as reliable service life.
Ameritech Video Contract Termination	Ameritech is the prime contractor for the WBAA/State video contract. This contract is referenced by several names i.e. State Video Contract, BadgerNet Video Contract, WBAA contract, Wisconsin Distance Education Video Contract.
Asynchronous environment	This term has a lengthy definition with numerous technical implications. However it generally means that a group can communicate interactively without being present together in time and in place.
ATM standards based service	Asynchronous Transfer Mode. Very high speed transmission (network) technology. High bandwidth, low delay connection oriented packet like switching standards.
Backbone Network	The state of Wisconsin has a backbone network or circular configuration that traverses each LATA in WI with access points established where local circuits are run to an access point locally in order to get on the backbone network to get to a far away location. For example a circuit for Superior will go to an access point in Eau Claire. The data gets on the backbone there to ride to an access point in Madison where it gets off the backbone and travels on a local connection to get to the Madison user. It is the same as taking a commuter flight to get to the main terminal where the backbone airlines takes you on the long run to another terminal where you take a commuter flight again to get to the smaller city.
BadgerNet Contract	Generic term relative to BadgerNet. Today, the BadgerNet network is really a series of different networks and contracts that blend together as a portfolio of services for the end users to purchase from DEG relative to their needs.
BadgerNet Video Network	State of Wisconsin contract that supports high- quality video classrooms and expires December 5, 2005.
Bandwidth	Generally, in this business case, bandwidth can be thought of as water traveling through a pipe and the amount of water the user needs. The bigger the pipe the more water available. The bigger the

	pipe the more water the multiple users can draw simultaneously. Conversely, the bigger the pipe the more water that can drain. The more users you have at the end of the pipe, the greater the demand, which can impact how quickly the water can be delivered. As we get more and more users at the ends we need to either somehow compact the information before it gets to the pipe or we just need pipes capable of handling the amount of water we need during low and peak times of use.
Building wiring	Wire installed in a building to facilitate networking.
Connectivity	The ability to connect point A with point B or Point A with A, B, C →
Continuous Audio	Video term, which means the audio, is constant and clear. High quality.
Course Management Systems	Can be a generic term and relates to very recent technology where vendors sell systems or services that contain content our courses that students and instructors use for distance education courses. They have a myriad of ways interactive and asynchronous methods can be incorporated into them. Other terms relative to similar technology but different relative to specific uses are LMS or LCMS.
Data access lines (internet)	Term used By Teach WI. T1 data lines purchased by TEACH from DEG to support TEACH applicants i.e., schools, libraries, etc.
Data lines	Generic term. In this business case it is a line leased from a vendor to connect an end user to an ISP or the Internet.
Database	Electronic capture of subject matter or information to be used in a myriad of applications, usually by sorting it and formulating reports.
Desktop Video	Video applications which can be implemented at the desktop on an individual PG for example. This is where video is emerging and provides different capabilities vs. having to go to a specific distance education room where all the video equipment is located.
Digital Divide	Term: means some locations have affordable access to technology and others do not; lack of equity.
Digital Highway	Buzz Word and generic with many uses

	but usually pertains to modern public and private networks. Digital is the most recent and popular technology standard used today.
Digital Technologies	In telecommunications, in recording or computing, digital means the use of a binary code to represent information, 1s, 0s, in specific patterns that make up numbers and letters, spaces and punctuation, video signals or sounds. Most recent technology developed used as a world accepted standard.
Distance Education	Process of education where the student(s) and the educator are typically not in the same place. Most often, educational telecommunication technology is the medium of either synchronous or asynchronous collaboration.
Education Technology Classroom	Term: Can be a variety of options but mainly pertains to a location where teaching is performed utilizing educational technology that is physically present and available for students and educators.
Education Telephone Network (ETN)	This is a very old application developed by the UW that essentially was a large telephone conference network used for educational services. This was a pioneer collaboration tool for educational communication.
Educational Technology	In this business case this pertains to any type of technology that is used in the process of teaching or transportation of information associated with education, academic or administrative. This is a general term covering many applications.
Educator	This is a common term, which in this business case can pertain to PK/12 teacher, Higher Education Professor, Technical College Instructor and their assistants.
Egress Points	Usually a networking term where the data leaves the originating point and travels to the destination, which is an ingress point.
ELearning	Generic term meaning electronic learning often used in place of distance learning. This could involve many different kinds of potential educational teaching applications i.e. video, voice, Internet search, teleconference, etc.
Electronic Field Trips	Rather than getting on a bus and going to

	a museum for example or NASA the field trip is done by video conferencing or other electronic connection means.
End User	Term: anyone who uses the technology at the point of origin or destination. A teacher using a PC for classroom Internet access is an end user. A person making or taking a telephone call is an end user.
Equitable Access	In this business case this means that no matter where in the state you live you have the same low cost access, high quality access, high bandwidth access and same equitable access for a quality education as anyone. Specifically, there are many rural locations where they do not have the affordable and high-speed access that those have in larger cities. This is a specific fact. In larger towns a video link can be purchased for \$117,000, in a rural town it is \$350,000 for the same thing.
Existing Contract Grants	TEACH WI. Term used for a grant program. Education services that existed prior to) October 14 <sup>th</sup> , 1987 are eligible for a grant, Existing Contract Grant.
Federal E-Rate Reimbursement	Federal program that a K/12 school can apply for reimbursement of portions of their educational telecommunication expenses.
Full Motion Video Education Network	Generic term usually referenced to the high quality State Video or BadgerNet Video Contract. Full motion quality is like watching the 6:00pm news at home on television. It is actually VCR tape quality with this network.
Full Motion Video	This is a term associated with quality. In this case it relates to the same quality of TV picture as if you were watching the evening news on your home TV.
Global Connectivity	The ability for an end user to make a connection with another entity anywhere in the world be it next door or another country.
Grassroots Need	Basic, core need of someone to perform a function.
High-Speed Access	Term: In this business case it generally means access to the Internet or a data network. High –speed is generic. It means different things to different people depending upon their needs. For a Public Library a T1, 1.544 MBPS data speed is very high. For UW Madison it would be

	inadequate and multiple links of 45 MBPS (million bits per second) would be High-Speed Access.
Instruction Television Fixed System	Older technology implemented years ago still in existence where a video broadcast is sent in one direction to many sites or specific sites. Often an audio bridge is coupled with the service to provide 2 way audio service.
Interactive Video	Term: A live transaction (meeting, class) is taking time between two or more locations real time as if all the people were in the same location meeting together.
Intra Campus	Transporting information within a campus, between the buildings and locations of a campus.
IP Based Network	General term meaning Internet Protocol standards based network
IP	Internet Protocol which is a standard.
ISDN	Integrated Services Digital Network. ISDN provides voice, data and signaling services.
IT	Information Technology.
ITV	Generic term used with video education. Can be associated with video classes provided on the State Video Network or the ITFS network or other modes of video instruction.
Java script	Application programming interfaces for JAVA based computer technology. These are standards scripts that are independent of platform or telephone system. Under Open System Standards, the Application layer is what you see on the computer screen as text and format. Therefore this presents the option for a universal script or view.
JPEG	This is a video standard. Joint Photographic Experts Group so called as it we designed by the International Standards Organization. It is a video compression technique. Since it's inception other standards have superseded it which are more advanced and supposedly more cost effective. These standards are soft and constantly being modified with more recent versions.
Legacy System	In this business case, it pertains to video distance education networks that may have been in service for many years.

	Project Circuit is 20 years old. Quite a few Legacy Systems preceded newer systems. These newer systems may not be compatible with the older or legacy systems.
Local Area Networks	Often called a LAN. The primary purpose is to network (connect or link) computers, printers and shared devices in a building or a group of workers together. Most often cabling (category 5 standard cabling) is used to do this and now fiber optics.
Migration Path	Standard term usually referencing that technology has an emerging path of change to get to the next or current level. Sometimes this can be accomplished by making software changes or making a complete change of the platform.
MPEG	Video term. It is commonly known as a compression scheme for full motion video. It means Moving Pictures Experts Group as defined by the ISO committee. MPEG was introduced in 1991. There have been a number of revisions to MPEG in the last 10 years.
Network Platform	Platform is the primary word here. Platform usually pertains to a particular technology the network architecture is based upon. That is the kind of technology or medium moving the information between points.
Network	The medium that carries voice, data or video between locations. This can be local, statewide, national, or global.
Networking	A term used relating to tying things together.
No Child Left Behind Act1	The No Child Left Behind (NCLB) Act of 2001, signed into law January 8, 2002, is the reauthorization of the federal Elementary and Secondary Education Act enacted in 1965.  It defines the federal role in K-12 education and is a compilation of numerous federal grants and programs. It is based on four basic principles: stronger accountability for results, increased flexibility and local control, expanded options for parents, and an emphasis on proven teaching methods.
PI 34 Education Program Approval and License Rules1	The recently enacted PI 34 Education Program Approval and License Rules restructure teacher education, educator licensing, and professional development

	for educators in Wisconsin. The new system is based on the Wisconsin Standards requiring demonstrated knowledge, skills, and dispositions for teaching, pupil services, and administration. Initial licensing and license renewal will be based on an educator's successful performance as measured against these standards.
Pioneer Video Network	In Wisconsin K/12 schools, the Technical Colleges, some Private Universities, CESA's and UW established full motion video networks for collaboration at their expense. On network is 20 years old and still uses the same technology. These users became known as the Pioneer Video Networks.
Portable classrooms	A term from the last TEACH WI technology and training grant. The audio and video equipment typically installed permanent in a classroom was mounted on a portable cart system so it could be moved to any classroom for video instruction.
Procurement	Term: process in government used to purchase equipment or services.
R&D commitment	Research and development. Tektronix, the manufacturer of the current BadgerNet video platform promised during negotiations to provide an upgrade path from JPEG to MPEG and ATM under R&D. They subsequently broke that promise and manufactured discontinued the product line.
Reliable Service Life	Term: Even in the environment of quickly changing technology, hardware, software and other equipment have a useful life, regardless of change, for a period that allows the purchaser to obtain the full value for the reason it was purchased. For example, a BETA VCR will still show a video; but a newer technology, which does the same thing, replaced it years ago. Many products purchased by PK/20+Libraries can be used for years to come. The most common element that supports them is a data network. As long as they are compatible with the network, they have a reliable service life.
Satellite Downlinks	Stations dish antennas that receive signals from satellites.

Seamless Connectivity	Term: Generally it means that we create an environment where different technologies that are based upon common networking standards can communicate easily with each other. The use seems universal to the user. As long as users adopt common standards that the world of telecommunications continuously evolves to and the products made top work on these networks, we see a seamless connectivity.
Standards Based Network	Communication industry term, which, in this business case, relates to a common network, capable of supporting common applications, based on standards supporting global commonality.
Statewide Distance Education Network	In this business case, it is the primary term that will relate to a standards based voice, data and video network that can support all educational users. The network ideally would also be capable of supporting state business.
Streaming Video	Transmitted video or audio data are viewed (or listened to) in real time <i>i.e.</i> , as the information is received. Streaming video may be user controlled (as in on-demand, pay-per-view movies) or server controlled (as in Webcasting).
Synchronous Learning	In this essence it pertains to communication primarily being one way. Computers communicate with a mainframe synchronously. Typically an interactive video call would not be done synchronously. This type of transmission would be like a broadcast to many possible locations or just one with no response intended to come back from the viewer.
System Access	This means one has access to a system, it is generic relative to what kind of system.
TEACH Video Link	A TEACH eligible entity can request a video link provided through the state video contract. TEACH pays for the entire cost of the service which can be several hundred thousand dollars and TEACH bills the school \$250 a month through 12,05,05.
TEACH	<b>T</b> echnology for <b>E</b> ducational <b>A</b> chievement ( <b>TEACH</b> ) Wisconsin provides support for investments in educational technology and telecommunications. Wisconsin's schools, libraries, cooperative educational service

	agencies (CESAs), charter schools, secured juvenile correctional facilities, private colleges, tribal colleges, and technical colleges are all served by TEACH.
Tektronix Video Network	The proprietary name of the manufacturer who built and sold the video platform equipment for the current BadgerNet video contract and the common term people use to relate to that network.
Telecommunication	Communication that take place over a distance. This does not relate only to telephone networks, which is a common misconception.
Telecommunications Access Program (TEACH)	TEACH Wisconsin offers state networked Video Link services to eligible applicants at a monthly price of \$250. TEACH Wisconsin basic video service includes spare capacity for a 1.544Mbps data line circuit which can be used for Internet access in most cases. The system is designed to accommodate daily connections for users connected to the locally installed video switch.
Telecommunications Access Service	Voice, data or video accesses to a network. The network can be public, private or it can be the Internet. Private networks can apply to many different situations but is primarily looked upon, as the point where data or information leaves the originators hand and has to telecommute to get where it is being sent.
Upgrade	Term: In this case means that a technology or software can be changed to newer versions without having to throw them away and starting over from scratch.
Upgradeable	Term which means that a technology can be modified with an upgrade to do more applications, meet new standards or become more efficient. The point is the initial investment is protected because changes do not make the item automatically become obsolete or unusable.
Video	Video adds the element of sight to communications.
Video Classroom Equipment	Audio and video equipment installed in a classroom that supports video teaching, TV screens (monitors), document camera, instructor control panel, microphones, etc.

Video Conferencing	Industry term where a meeting is held from a distance with the users using a video service to connect them.
Video Distance Education managers	In WI there are many distance education regional networks for video instruction and they have names like KASKADE, JEDI, SCING, NWECS, TRITON, etc. Each network usually has a manager who is responsible for coordinating and managing all activity on that network. This is one of the reasons why Wisconsin has such a well-organized collaboration statewide video network.
Video Links	The video service itself. Each school on the network has a video link connecting it to the entire network.
Video Network	Universal term. It can mean a cluster of video partners sharing their own network or it could be hundreds of users sharing a common network. This generic term does not associate it with any particular technology.
Video Platforms	Generic term. A platform is usually a specific type of technology and the main engine for running a network. A video platform is a particular video technology based upon a particular technology or the engine behind the network.
Video Service Lease	In this case, the State of Wisconsin initially agreed to award the current video contract based upon a 7 year "leased service" scenario. The state leases the video link however; the schools must purchase and own anywhere from \$35,000 to \$55,000 of classroom equipment to complete the video service. At the end of the lease, the service period is over and a new contract or extension is needed to provide video link service or capability. The WENCC committee determined extending the current video contract will not meet the classroom educational technology educators needs after 2005.
Videoconferencing	Conducting a meeting between distant locations with an interactive audio and video signal. There are many technologies and levels of quality and ways to do video conferencing. This is a generic term.
Virtual Learning Communities	Generic term in modern distance education that pertains to linking different content

	providers, educational systems, institutions, methods for teaching, anything available usually from a distant location to be incorporated into the educational process.
Wide Area Networks	WAN. Same principal as a LAN however buildings are linked by wide area networks. Quite often used in a campus environment.
Wisconsin Economic Development Plan	The State of Wisconsin Plan that supports development of Wisconsin competition in the global marketplace and also attracts business to Wisconsin.
Wisconsin Education Industry Investment	The money spent on purchasing technology, or services, or training which has formed the educational technology infrastructure for the State of Wisconsin.
Wisconsin Telecommunications Deregulation	Pertains to legislation in the mid 1990s that deregulated major portions of the way telephone companies are required to do business. It was anticipated this would create more competition and reduce costs through competition for the general consumer and business.
Wisconsin Universal Service Fund	Established by the Public Service Commission, this fund is assessed upon telecommunication (telephone companies primarily) for a variety of public policy support issues. TEACH telecommunication access programs are paid for by assessments from this fund paid to the telephone companies by their customers.