

# ***Services Provided to the Districts and Schools by the Delaware Center for Educational Technology***

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**Telecommunication Infrastructure**

**1. Standards for Wire, Cable, and Electronics**

The DCET has set standards for wire, cable, and electronics in the schools. The DOE Construction Manual states that school districts are responsible for installing wire, cable, and electronics to DCET standards for all construction, including remodeling, expansion, and new construction. The standards document can be found on the World Wide Web at <http://www.dcet.k12.de.us/technical/docs/FINL-STD.pdf>.

*DCET Contact: Walt Roshon, Dan Farley, Scott White*

**2. Network Design**

The DCET technical staff assists districts with the network design required for school improvements and new school construction. The designs adhere to the DCET wiring standards while incorporating the newest technologies available.

*DCET Contact: Dan Farley, Walt Roshon, Scott White*

**3. Network Support and Trouble-shooting**

The DCET technical staff monitors, troubleshoots and services the Delaware Education Network in all 180 Delaware public schools. Monitoring servers, test equipment, and spare parts are maintained at the DCET office in order to make timely repairs to the network.

*DCET Contact: Walt Roshon, Scott White*

**4. Windows 2000 Implementation**

The DCET has led Districts in their migration and/or implementation of the new Windows 2000 Network Operating System by providing servers, licensing, consultants, and technical expertise to all Districts wanting to move to Windows 2000

*DCET Contact: Walt Roshon, Scott White, Dan Farley*

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### ***5. TechMACC (Technology Managers and Coordinators Council)***

The DCET hosts monthly meetings of the district technology coordinators. The group is called TechMACC, **T**echnology **M**anagers and **C**oordinators **C**ouncil. These individuals are responsible for maintaining and supporting the networks and workstations in the districts. The meetings are intended to keep an open line of communications between the state level agencies and the districts.

*DCET Contact: Dan Farley, Chair of TechMACC*

### ***6. Technology Block Grant***

One of the most important annual allocations is the Technology Block Grant of \$1.0M. The funding is distributed to the school districts and charter schools to help offset the cost of maintenance and support of technology. Technology Block Grant funding is used in many ways by the districts, but the main use is to hire contractual personnel to perform maintenance and support on PCs.

*DCET Contact: Dr. Wayne Hartschuh*

### ***7. Server and Infrastructure Enhancement Project***

The DCET Server and Infrastructure Enhancement Project is three-fold: (1) administrative servers for the statewide pupil accounting system; (2) ensure an instructional server in every school; and (3) upgrade the existing LAN electronics (switches and hubs) to a switched network.

The first two segments of the project are essentially complete. The DCET has not received any e-rate funding to offset the cost of internal connections, such as, servers and electronics. The effect of not receiving e-rate funding on the project is that the DCET will not be able to upgrade all of the electronics in the schools as planned. The project covered the administrative and instructional server needs in the schools, but the upgrading of electronics will be scaled back tremendously. The project is proceeding and continues through the 2001-2002 school year.

*DCET Contact: Dan Farley, Dr. Wayne Hartschuh*

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**8. CATV / Video Broadcast Project**

The DCET installed coaxial cable to every classroom during the three year wiring project. The final part of the installation will provide the necessary equipment to broadcast cable television and locally originating video signals (VCR, camera, satellite, etc.) to the classroom.

*DCET Contact: Dr. Wayne Hartschuh, Dan Farley*

**9. Technical Training / Consulting**

The DCET works with various vendors and manufacturers to provide technical expertise to DCET and district personnel regarding emerging technologies. In turn, the DCET personnel work with local personnel to provide services that meet the needs of the schools and districts.

*DCET Contact: Dan Farley, Dr. Wayne Hartschuh*

**10. Technical Research and Evaluation**

The DCET works with various vendors and manufacturers to provide emerging technologies for piloting and evaluating.

*DCET Contact: Dan Farley, Dr. Wayne Hartschuh*

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**Instructional Technology**

***11. Delaware Instructional Technology Conference***

The Delaware Center for Educational Technology sponsors the annual *Delaware Instructional Technology Conference*. The conference is held at the Sheraton Dover Hotel and Conference Center in early spring. The conference is a two-day forum that enables teachers, administrators, technology coordinators, and other professionals from the mid-Atlantic region an opportunity to meet and exchange ideas on the present and future of instructional technology. The conference focuses on successful technological applications used in today's classrooms as well as the emerging technologies of the future.

Concurrent sessions allow presenters to share their most effective instructional technology solutions and projects with teachers, administrators, instructional support staff, and librarians. Hands-on Internet presentations in the computer labs (PC and Macintosh) take place during concurrent sessions. In addition, three-hour and six-hour workshops provide a more intensive opportunity to learn technology integration.

*DCET Contact: Wendy Modzelewski, Dr. Wayne Hartschuh*

***12. INTEGRATE (Instructional Technology Guiding  
Rigorous Academics and Teaching Excellence)***

The DCET hosts monthly meetings of the district instructional technology coordinators. The group is called INTEGRATE, **IN**structional **TE**chnology **G**uiding **R**igorous **A**cademics and **T**eaching **E**xcellence. These individuals give the DCET guidance on instructional technology activities across the state and feedback on the activities impact on instruction and curriculum.

*DCET Contact: Wendy Modzelewski, Dr. Wayne Hartschuh*

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**13. Traveling Integration Lab**

One of the most successful instructional technology projects the DCET is involved with is the Traveling Integration Lab. The DCET's Traveling Integration Lab provides teachers an easy way to try integrating instructional technology into their teaching by providing computers for the classroom. The lab consists of 8 Apple iBook laptop computers, an Airport network communication device (which means no wires!), and a color printer. The lab is delivered to the school and can stay for up to two weeks. The DCET provides books with instructional ideas and strategies, and the DCET personnel will assist in designing lesson plans and activities that will work for the teacher and students. During the 2000-2001 school year, the lab was used in 10 schools and at the Delaware Instructional Technology Conference.

*DCET Contact: Wendy Modzelewski, Dan Farley*

**14. ITUG-DE (Instructional Technology Users Group – Delaware)**

The DCET is providing the impetus to create, organize, and conduct operations for a professional organization in technology. The group is in its organizational phase and interest continues to be tremendous. The name of the organization is ITUG – Delaware (Instructional Technology Users Group - Delaware)

*DCET Contact: Wendy Modzelewski, Dr. Wayne Hartschuh*

**15. Technology in Delaware Schools Brochures**

The DCET periodically publishes tri-fold brochures that highlight successful uses of technology in schools across the state.

*DCET Contact: Dr. Wayne Hartschuh*

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### ***16. ThinkQuest***

ThinkQuest is a global network of students, teachers, parents and technologists dedicated to exploring youth-centered learning on the Net. The DCET is a ThinkQuest partner that provides technical support to schools with teams wanting to participate in ThinkQuest activities.

The two main ThinkQuest activities are the ThinkQuest Internet Challenge and ThinkQuest Junior. The ThinkQuest Internet Challenge is an international program for students ages 12 through 19 that encourages them to use the Internet to create information-rich Web-based educational tools and materials. ThinkQuest Junior is a classroom-based competition that encourages girls and boys in grades 4-6 to take a meaningful interest in computers and technology. ThinkQuest Junior helps teachers promote the "Internet Style" of learning – an interactive, participatory method that encourages students to take advantage of the Internet as a constantly growing source of information and as a powerful collaborative tool.

*DCET Contact: Wendy Modzelewski*

### ***17. Delaware Technology Academy***

For the summer of 2001, the Delaware Technology Academy was organized by the DCET with support from the McDonald's Restaurant Owner/Operators of Delaware. Educators were given the opportunity to participate in a variety of technology professional development activities that would increase the educators' technological skills and gain an insight into how technology can effectively be used in the classroom and education environment.

One of the main goals of the Delaware Technology Academy was to increase the technology capacity of the educators in our schools. In other words, the emphasis is that the most important side of technology is the human side. Each participating educator received 30 hours of training and developed a technology-enhanced instructional activity for use in the classroom. Inservice credit (2.0) was awarded when all requirements were met. The DCET is planning to conduct another version of the Delaware Technology Academy during the summer of 2002.

*DCET Contact: Dr. Wayne Hartschuh, Wendy Modzelewski*

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### ***18. Marco Polo Professional Development***

MarcoPolo is a partnership between MCI WorldCom and seven renowned educational organizations. These partnerships were created to produce six discipline-specific educational web sites. The MarcoPolo program provides standards-based Internet content for the K-12 teacher and classroom, developed by the nation's content experts. Online resources include panel-reviewed links to top sites in many disciplines, professionally developed lesson plans, classroom activities, materials to help with daily classroom planning, and powerful search engines.

Just as the textbook helps teachers provide credible information in a structured way that meets our state curriculum guidelines, MarcoPolo has been designed to accomplish the same thing over the Internet. And just like the textbook, it requires that you take some valuable time to learn how to use these sites and the information they offer. They are striving to meet your needs by offering useable, standards-based content which works within your curriculum and provides a structured and safe Internet experience.

The DCET has an agreement with Marco Polo to provide workshops to Delaware educators on the program. Each participant will investigate the six Marco Polo portals along with their standards-based curriculum and resources. Upon completion, participants are asked to return to their home school and share this information with their fellow teachers. We ask for a contact minimum of 3-5 and a maximum of 10 teachers per year. These follow-up sessions can be offered in a variety of ways: to grade levels, content areas, on-on-one sessions, or however the trainer feels most comfortable.

*DCET Contact: Wendy Modzelewski*

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**19. Technology Strand of Statewide Professional Development Day**

The DCET organizes a strand of technology workshops that are presented at the statewide professional development day.

*DCET Contact: Wendy Modzelewski*

**20. Instructional Technology Training / Consulting**

The DCET works with various vendors to provide technical expertise to DCET and district personnel regarding emerging instructional technologies. In turn, the DCET personnel work with local personnel to provide services that meet the needs of the schools and districts.

*DCET Contact: Wendy Modzelewski, Dr. Wayne Hartschuh*

**21. Instructional Technology Research and Evaluation**

The DCET works with various vendors to provide emerging instructional technologies for piloting and evaluating.

*DCET Contact: Wendy Modzelewski, Dr. Wayne Hartschuh*

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**Total Project Needs**

***22. Procurement Contracts***

The DCET is the lead agency for the Microsoft Select purchasing agreement, the Apple Master Volume Licensing Agreement, and the Educational Resources Partnership Plus program. These agreements allow any educational agency in the state, including higher education and DOE, to purchase software at a substantially reduced rate.

In many cases, education can receive better “deals” than state government with respect to purchasing agreements. DCET is working with companies that currently have state contracts and has brokered educational agreements with respect to the contracts. Most notably, Dell Computer and Compaq have been working toward favorable pricing on servers and 3Com has provided favorable pricing on LAN electronics as the DCET proceeds on the Server and Infrastructure Enhancement Project.

*DCET Contact: Dr. Wayne Hartschuh*

***23. Annual Technology Survey***

The DCET conducts an annual technology survey of all the schools in October. The 2000-2001 School Technology Survey gave a ‘snapshot’ of technology in our schools on October 30, 2000. Highlights of the survey are (1) there are over 30,000 computers in our schools (Comparing results from past years, the number of computers in our schools has more than doubled in the past two years.); (2) 98% of our classrooms have at least one computer; (3) 96% of our classrooms have at least one computer connected to the Internet; and (4) 68% of Delaware’s teachers use the computer on a DAILY basis for instructional planning and/or teaching.

*DCET Contact: Dr. Wayne Hartschuh, Dan Farley*

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### ***24. Dial-in Accounts for Educators***

The DCET provides dial-in access accounts to educators through OISNet. The cost of an OISNet account is \$83.40 per year (\$6.95 per month), but each educator pays only \$25 per year and the DCET subsidizes the remainder of the cost for each account. Educators can find information on signing up for a dial-in account at <http://www.dcet.k12.de.us/oisnet>.

*DCET Contact: Pam Reed*

### ***25. E-Mail Lists***

In conjunction with the Office of Information Services, the DCET supports the education e-mail list software by Lyris. E-mail lists can be created and made available to the educational community. Lists can also be accessed through the Web at <http://lists.k12.de.us>.

*DCET Contact: Walt Roshon*

### ***26. E-mail accounts for Faculty/Staff***

The OIS provides an e-mail system for districts to use to provide e-mail accounts for all faculty and staff. Within the system, a domain for each district is created with district personnel given administrative rights for the domain. The district personnel with administrative rights maintain the accounts for the district performing such tasks as setting up new users, deleting users no longer at the district, and changing passwords. This service is provided at no cost to the district. If a district chooses not to use this service, that district can set up an e-mail server at the district to provide the same functionality. Please note that this system does not support e-mail for students.

*DCET Contact: Dr. Wayne Hartschuh or George Slentz at OIS*

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### ***27. Web Site Hosting***

The DCET contracts with the OIS to provide a Web site for all public schools in the State of Delaware. The Web site is made available to the school at no cost to the school. All school Web sites can be found at <http://www.k12.de.us>. Each school has a directory that identifies the school, such as, the Newark High School Web site can be found at <http://www.k12.de.us/newark>.

*DCET Contact: Dr. Wayne Hartschuh*

### ***28. Internet, Copyright, and Filtering Policies***

The State of Delaware has a standard statewide acceptable use policy through the Office of Information Services (OIS). Filtering of Internet content is provided at the state level using the SmartFilter software package.

In most cases, school districts have developed their own acceptable use policy that must be signed and adhered to by the educators and students in the district. The district policies vary, but on a whole, include Internet use, ethics, and copyright at a minimum.

*DCET Contact: Dr. Wayne Hartschuh*

### ***29. Meeting Facility***

The DCET Office Suite has a meeting facility for up to 50 participants with the tables and chairs arranged to meet the needs of the meeting, a large white board with markers, computer barrel projector, overhead projector, VCR, satellite downlink, and television set.

*DCET Contact: Pam Reed*

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**30. Computer Lab Facility**

The DCET Computer Lab is adjacent to the meeting area with 15 student computers and an instructor station with projection device. All workstations have the following software: Windows 2000 Professional, Microsoft Office Premium; Internet Explorer; Netscape Navigator; and Adobe Acrobat. Other software may be installed by request. (Please Note: Software must be Windows 2000 compliant and must be submitted to the DCET office staff for review no less than two weeks in advance of use.) The lab also has a large white board with markers and an overhead projector.

*DCET Contact: Pam Reed, Dr. Wayne Hartschuh*

**31. Satellite Teleconferencing Site**

The DCET has a satellite dish capable of receiving both C band and Ku band signals for teleconferences. This gives representatives from across the state the opportunity to receive teleconferences, such as, the USDOE monthly Town Hall meetings on the second Tuesday of each month.

*DCET Contact: Dr. Wayne Hartschuh*

**32. E-Rate Consulting**

The DCET disseminates information to the schools and districts concerning the e-rate and the application process. On the whole, e-rate applications for the assured e-rate funding on telephone service and telecommunications charges are filed at the state level. The DCET has encouraged districts to review the list of eligible services and submit applications for services that are not included in the state applications.

*DCET Contact: Dr. Wayne Hartschuh*

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