

U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS WASHINGTON, D.C. 20208-5651 ADVANCED TELECOMMUNICATIONS IN U.S. PUBLIC SCHOOLS, K-12 FAST RESPONSE SURVEY SYSTEM	FORM O. M. B. NO.: 00706 EXPIRATION DATE: 6/95
This survey is authorized by law (20 U.S.C. 1221e-1). While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate, and timely.	

INSTRUCTIONS FOR THIS SURVEY:

This questionnaire about the availability and use of advanced telecommunications is designed to be completed by the person(s) most knowledgeable about computer and other networking (2-way audio or computer) capabilities at your school.

This study is designed to obtain information about individual schools rather than school systems. Please respond only for technologies and activities that take place in your individual school. Definitions for key terms are provided below.

DEFINITIONS

Advanced telecommunications - refers to modes of communication used to transmit information from one place to another including broadcast and interactive television, networked computers, etc.

Broadcast television - refers to network television such as NBC, CBS, etc.

Cable television - refers to subscription television such as CNN, Learning Channel, Discovery, etc.

Closed-circuit television - refers to the transmission of television on noncommercial lines (e.g., inhouse broadcast).

Distance learning - refers to the transmission of information from one geographic location to another via various modes of telecommunications technology. For example, an advanced high school math class in Richmond, Virginia, could receive a college-level math seminar from the University of Virginia via two-way video.

Instructional rooms - refers to rooms in the school building used for any instructional purposes (includes classrooms, labs, media centers, art rooms, rooms used for vocational or special education, etc.).

Local area network - refers to the linkage of computers confined to a limited area that may consist of a room, building, or campus that allows users to communicate and share information.

One-way video with two-way audio or two-way computer link - refers to the ability to transmit or receive picture in one direction with the capability to communicate in two directions (interactively) via computer or some audio method.

Two-way video and audio - refers to the ability to transmit and receive picture and sound simultaneously in real time.

Wide area network - refers to a data communications linkage designed to connect computers over distances greater than the distance transmitted by local area networks (e.g., building to building, city to city, across the country, or internationally), that allows users to communicate and share information.

AFFIX LABEL HERE

IF ABOVE INFORMATION IS INCORRECT, PLEASE MAKE CORRECTIONS DIRECTLY ON LABEL.

Name of person completing form: _____ Telephone: _____

Title/position: _____ Number of years at this school: _____

Best days and times to reach you (in case of questions): _____ E-mail: _____

IF YOU HAVE ANY QUESTIONS, CALL: Sheila Heaviside 1-800-937-8281, ext. 8391 WESTAT 1650 Research Boulevard Rockville, Maryland 20850
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Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Department of Education, Information Management and Compliance Division, Washington, D.C. 20202-

PLEASE REFER TO DEFINITIONS ON COVER PAGE FOR WORDS IN **ITALICS**.

I. Telecommunications

1. For each type of equipment or service read, please indicate whether or not the service is available at this school, and then where in the school it is located. Then tell me the number of rooms used for any instructional purposes (include classrooms, labs and media centers, etc.) in which the equipment/service is available.

Equipment or service	1 Available at school?	2 In administrative offices?	3 In teacher workrooms?	4 In classrooms?	5 In computer labs?	6 In Library/media centers?	7 Number of instructional rooms with service (Columns 4-6)
Do you have:							
a. Computer with telecommunication capabilities via <i>local area network</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
b. Computer with telecommunication capabilities via <i>modem</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
c. <i>Broadcast television</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
d. <i>Cable television</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
e. <i>Closed-circuit television</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
f. <i>Two-way video and audio</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____
g. <i>One-way video with two-way audio or computer link</i>	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	_____

2. What is the total number of rooms in this school used (in whole or part) for any instructional purposes (with or without telecommunication equipment/service)? Total _____

II. Telecommunication Plans

The next few questions are about your school's telecommunication plans.

3. Is your school currently involved in the development of a comprehensive *advanced telecommunications* plan? (Circle one.) Yes ... 1 No ... 2

4. Does your school have plans to connect or upgrade access to a *wide area computer network*? (Circle one.)

a. Yes, plans to connect to *wide area network* 1 **If yes, by what year do you expect to implement connection to a *wide area network*? 19 ____**

b. Yes, plans to upgrade access to *wide area network* 2 **If yes, in what year did your school first connect to a *wide area network*? 19 ____**

c. No 3 **(If no, skip to Q6)**

5. Are your school's plans to implement or upgrade a *wide area network* connection part of a: (Circle all that apply.)

a. School plan? 1 c. Regional plan? 3

b. District plan? 2 d. State plan? 4

e. Other (specify) _____ 5

III. Local Area Networking Capabilities

Next, I have a few questions about your school's local area network capabilities.

6. Does this school have a *local area network*? (Circle one.) Yes ... 1 No ... 2 (If no, skip to Q9)

7. Which of the following does your *local area network* connect for instructional and for administrative purposes? (Circle all that apply.)

Does it connect:	Purpose		
	Instructional purposes?	Administrative purposes?	Neither
a. Computers within the same room for	1	2	3
b. Computers in different rooms in your school building or on your school campus for	1	2	3
c. Computers in your school with a central school district computer or network for	1	2	3
d. Computers in your school with a regional (other than school district), national, or international network for	1	2	3

8. Can your school's *local area network* be reached (for either full or partial access) through telephone connections from remote locations (e.g., home or other off-campus sites) by

	Yes	No
a. Staff?	1	2
b. Students?	1	2
c. Parents?	1	2
d. Other community members?	1	2

IV. Telecommunication Access and Use

The next set of questions concern telecommunications access and use.

9. Does this school have access to the Internet? (Circle one.) Yes ... 1 No ... 2 (If no, skip to Q12)

10. Please tell me which of the following Internet resources or capabilities your school has and who in your school has access to each. (Circle all that apply.)

Resource/capability	Not available?	Available for administrative staff?	Available for teachers?	Available for students?
Is/Are:				
a. E-mail	1	2	3	
b. News groups	1	2	3	
c. Resource location services (e.g., Gopher, Archie, Veronica, etc.)	1	2	3	
d. Graphical user interface (e.g., MOSAIC) ...	1	2	3	
e. Other (specify) _____	1	2	3	

11. How many rooms used for instructional purposes (include classrooms, labs and media centers, etc.) have connections to the Internet? _____

12. Does this school have access to other *wide area networks* such as CompuServe, America Online, Prodigy, etc? (Circle one.) Yes 1 No 2

(If no to Q9 and Q12, skip to Q23.)

13. How does your school connect to *wide area networks* (e.g., Internet, etc.)? (Circle all that apply.)
By:

Modem?	1	SLIP/PPP connection?	4
T1?	2	Other? (specify _____)	5
56Kb?	3		

14. Who has responsibility for administering the *wide area network* in your school? (Circle one.)

- a. A full-time network administrator (staff member whose primary responsibility is network administration) 1
- b. A staff member with part-time responsibility for administering the network 2
- c. Administered by the district 3
- d. No single individual 4 (Skip to Q16)

15. Is this network administrator on site or shared with one or more schools? (Circle one.)

On site 1 Shared with other schools 2

16. Please indicate for whom *wide area network* training is available and who provides this training. (Circle all that apply for each item.)

Is training provided for (a-d) by the:

	Not available	School?	District?	Community?
a. Administrative staff	1	2	3	4
b. Teachers	1	2	3	4
c. Students	1	2	3	4
d. Parents	1	2	3	4

17. To what extent do administrative staff, teachers, and students use *wide area networks* in your school?

Does/do (a-c) use wide area networks to a:

	Not at all	Small extent?	Moderate extent?	Large extent?
a. Administrative staff	1	2	3	4
b. Teachers	1	2	3	4
c. Students	1	2	3	4

18. Now I'll read a list of possible restrictions on student access to *wide area networks*. Please tell me which restrictions to student access apply to your school? (Circle all that apply)

- a. No students have access 1
- b. All students have access 2
- c. Network access is restricted to specific grades 3
- d. Network access is restricted to those students currently enrolled in or having completed a computer course 4
- e. Network access is restricted to students in specific programs (e.g., gifted and talented, vocational education, etc.) .. 5
- f. Other (specify) _____ 6

19. Approximately what percentage of all (administrative staff/teachers/students) in your school access *wide area networks* from school:

	Not at all?	Less than once a month?	Once or twice a month?	More than twice a month?
a. Administrative staff.....	_____ %	_____ %	_____ %	_____ %
b. Teachers.....	_____ %	_____ %	_____ %	_____ %
c. Students.....	_____ %	_____ %	_____ %	_____ %

20. In which of the following ways are *wide area networking* capabilities and other *advanced telecommunications* used in your school?

	Are wide area computer networks used for:		Are other advanced telecommunications used for:	
	Yes	No	Yes	No
a. Central record keeping within school district?.....	1	2		
b. Accessing other networks for sharing files and programs?.....	1	2		
c. As part of an integrated learning system providing individualized assignments?.....	1	2	1	2
d. To work from home?.....	1	2		2
e. <i>Distance learning?</i>	1	2	1	2
f. Other? (specify).....	1	2	1	2

21. Please tell me to what extent each of the groups I read have a formal role in developing your school's telecommunications activities?

Would you say (a-i) have a formal role to a:	Not at all	Small extent?	Moderate extent?	Large extent?
a. Students.....	1	2	3	4
b. Teachers/Staff.....	1	2	3	4
c. Parents.....	1	2	3	4
d. District/Regional administrators.....	1	2	3	4
e. Business leaders.....	1	2	3	4
f. Institutions of higher education.....	1	2	3	4
g. Other community organizations (e.g., libraries).....		2	3	4
h. State education agency.....	1	2	3	4
i. Other (specify).....	1	2	3	4

22. Who is responsible for making decisions concerning your school's *advanced telecommunications* budget? (Circle all that apply.)

School?.....	1
District?.....	2
Regional administrator?.....	3
State?.....	4

V. Barriers

23. Please indicate to what extent, if any, each of the following are barriers to your school's acquisition or usage of *advanced telecommunications* capabilities. If your school is currently using *advanced telecommunications*, please indicate to what extent the following are barriers to upgrading or maximizing telecommunications usage.

IS:	Not a barrier	A minor barrier	A moderate barrier	A major barrier
a. Lack of or poor equipment.....1		2	3	4
b. Inadequate hardware upkeep and repair1	1	2	3	4
c. Too few access points in building1		2	3	4
d. Problems with telecommunications service provider.....1	1	2	3	4
e. Lack of instructional software1	1	2	3	4
f. Software too complicated to use1	1	2	3	4
g. Lack of time in school schedule1	1	2	3	4
h. Telecommunications links not easily accessible.....1	1	2	3	4
i. Telecommunications equipment not easily accessible1	1	2	3	4
j. Lack of technical support or advice1		2	3	4
k. Lack of administrative support or initiative.....1		2	3	4
l. Lack of or inadequately trained staff1	1	2	3	4
m. Lack of teacher interest1		2	3	4
n. Lack of teacher awareness regarding ways to integrate telecommunications into curriculum1		2	3	4
o. Lack of student interest1		2	3	4
p. Lack of parent or community interest1	1	2	3	4
q. Not enough help for supervising student computer use1	1	2	3	4
r. Funds not specifically allocated for telecommunications1	1	2	3	4
s. Variability of telecommunications rates from service providers1		2	3	4
t. Use of <i>advanced telecommunications</i> does not fit with the educational policy of this school1	1	2	3	4

VI. General Questions About Your School

24. Looking back over the past 3-5 years, what type of an effect would you say using each of the following *advanced telecommunications* tools has had on your school overall?

Has the effect of:	Not not used	Been very positive?	Been somewhat positive?	Had no impact?	Been somewhat negative?	Been very negative?
a. Computer networks1		2	3	4	5	6
b. Broadcast television1		2	3	4	5	6
c. Cable television1		2	3	4	5	6
d. Closed-circuit television1		2	3	4	5	6
e. Two-way video and audio1		2	3	4	5	6
f. One-way video with two-way audio or computer link1		2	3	4	5	6

25. In what year was this school built? 19_____ Last major renovation? 19_____

26. Did the construction or renovation include wiring for telecommunication services? (Circle one.) Yes . . . 1 No . . . 2

THANK YOU!