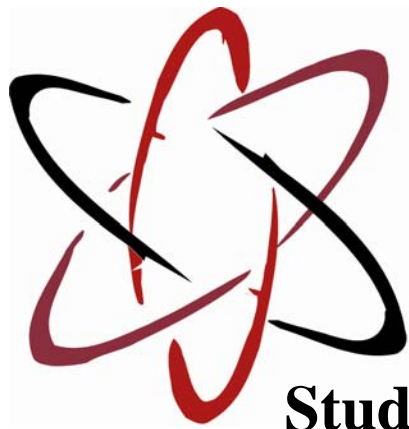


Classroom Connections

February 22, 2006

Ramkota RiverCentre

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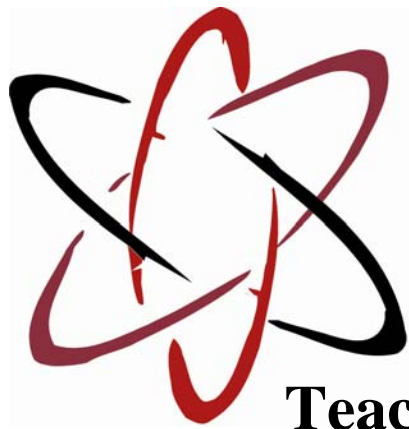
Classroom Connections

Student Objectives

Provide students with opportunity to learn 21st century skills:

- ✓ Research skills
- ✓ Problem solving skills
- ✓ Writing skills
- ✓ Communication skills
- ✓ Team building skills (Project-based learning)

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Classroom Connections

Teacher Objectives

Provide teachers with opportunity to teach with 21st century tools:

- ✓ Teachers trained with technology
- ✓ Teachers using electronic resources
- ✓ Teachers serving as facilitators of learning

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Classroom Connections

Program Overview

- ✓ Laptop for each teacher and student - Grades 9-12
- ✓ 3 year lease/purchase - District owns machine after 3 years
- ✓ First year program – 5,000-10,000 students (Fall 2006)
- ✓ Funding - CitiBank donation of \$4,000,000

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Classroom Connections

Advance Team Symposia


June 2006

Team: Building principal, technology coordinator, two teachers

Topics: Overview of the devices and support software, demonstration of applications, laptop roll-out

Delivery: Central location by vendors, experts, practitioners

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The logo consists of three overlapping, stylized loops in black and red, resembling a flower or a dynamic shape.

Classroom Connections

School-Based Assembly

July to August 2006 – three days

Participants: High school instructional staff,
sophomore/junior students

Topics: Content development in disciplinary
curriculum teams, classroom management

Delivery: At each pilot site location by facilitation team

The logo features the year '2010' in a large, bold, orange font with a slight shadow. Below it, the word 'education' is written in a smaller, dark blue, lowercase font. The entire logo is set against a background of large, abstract, overlapping brushstrokes in shades of orange, red, and grey.

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The logo consists of three overlapping, stylized loops in red and black, resembling a flower or a molecular structure.

Classroom Connections

Content Symposia

Early August 2006 - two days

Participants: High school staff within content areas

Topics: Strategies for student engagement within content areas (math, science, languages, social studies, etc.). Content teams from each pilot site to share their curriculum development products/ideas.

Delivery: Symposia at Dakota State University

The logo features the year '2010' in a large, bold, orange font with a dark outline. Below it, the word 'education' is written in a smaller, dark blue, lowercase font. A thin orange line separates the year from the word.

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The logo consists of three overlapping, stylized loops in black and red, resembling a flower or a dynamic shape.

Classroom Connections

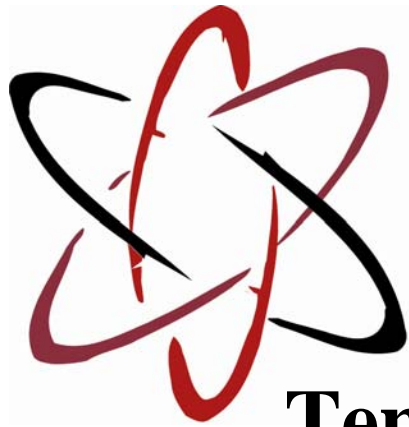
Tentative Timeline

RFP process:

- ✓ Publication of RFP March 1, 2006
- ✓ Proposal submission deadline March 22, 2006
- ✓ Review & evaluation March 23 – April 20, 2006
- ✓ Approximate award April 21 – May 5, 2006

The logo features the year '2010' in a large, bold, dark blue font with a white outline. Below it, the word 'education' is written in a smaller, dark blue, lowercase font. The entire logo is set against a background of large, abstract, overlapping brushstrokes in shades of orange, red, and grey.

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Classroom Connections

Tentative Timeline

Application process:

- ✓ Applications made available to schools expressing interest in the pilot – March 1 via email wade.pogany@state.sd.us (Superintendents only)
 - ✓ Final project cost information available to applicants - May 5
 - ✓ Application deadline - May 15
 - ✓ Application review completed May 22, pilot schools announced

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The logo consists of three overlapping, stylized loops in red and black, resembling a flower or a network of connections.

Classroom Connections

Application areas to be addressed

- ✓ Demonstrate the means to meet the \$2 to \$1 matching funds (district \$2 / state matches \$1)
- ✓ Demonstrate action steps necessary to implement professional development of staff and students
- ✓ Demonstrate a technology plan including support services
- ✓ Demonstrate how the program will impact instruction of students
- ✓ Demonstrate commitment from school board and effort to involve community

The logo features the year '2010' in a large, bold, orange font with a slight shadow. Below it, the word 'education' is written in a smaller, teal, lowercase font. A thin orange line underlines the '2010' and extends slightly to the right.

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Classroom Connections

- ✓ Preference may be given to schools in school improvement to study the effect of laptops on student achievement.
- ✓ Preference may be given to schools in sparse districts that are taxing at the maximum levy for capital outlay funds.
- ✓ Preference may be given to schools applying through a consortium of schools intending to coordinate resources among their consortium.
- ✓ Consideration will be given to all size school districts with the intent to select AA, A and B schools in the pilot.



Classroom Connections

Laptops/Tablets

- ✓ Students: Laptops
- ✓ Teachers: Tablets? (School choice)
- ✓ CPU
- ✓ RAM
- ✓ Integrated wireless
- ✓ Extra battery
- ✓ Purchase or 3 year lease (manufacturer or local)
- ✓ 3 year warranty – accidental coverage
- ✓ Software
 - ✓ Microsoft Windows XP Professional
 - ✓ Microsoft Word, Excel, PowerPoint, Publisher
 - ✓ Altiris
 - ✓ Symantec Client Security
- ✓ State contract

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Classroom Connections

Server

- ✓ Image management
- ✓ RADIUS server
- ✓ Microsoft server 2003

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Classroom Connections

Desktop Management

- ✓ Students install own hardware & software?
 - ✓ Instant messaging?
 - ✓ Flash drives?
 - ✓ Security?
- ✓ Local control & management
- ✓ Tools to aid in management:
 - ✓ Acceptable use policies
 - ✓ Active directory policies
 - ✓ Altiris imaging
 - ✓ Symantec & Sygate
- ✓ Philosophy:
 - ✓ Locked down & open up permissions as need be?
 - ✓ Wide open – then lock down undesireables?
- ✓ Advanced computer support skills required

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Classroom Connections

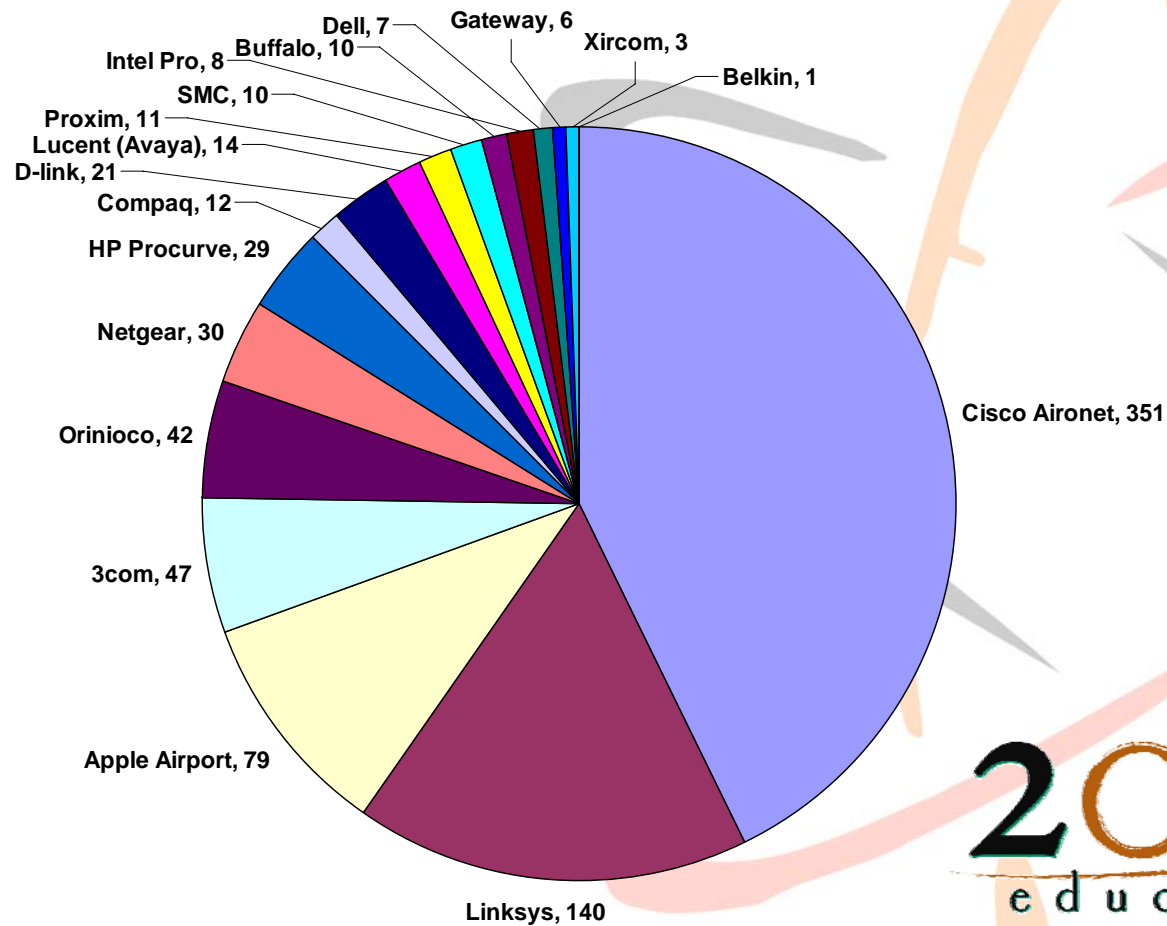
Wireless Networking

- ✓ Build it right the 1st time!
- ✓ State contract – local decision
- ✓ 802.11g
- ✓ 54 Mbps shared (not switched)
- ✓ 2.4 Ghz
- ✓ Local Area Network based on switched architecture
 - No hubs
- ✓ Autonomous vs. light weight
- ✓ Centralized management
- ✓ Expectations: Performance
- ✓ RADIUS authentication
- ✓ Enterprise level encryption
- ✓ “Buy” expertise/services if necessary



Classroom Connections

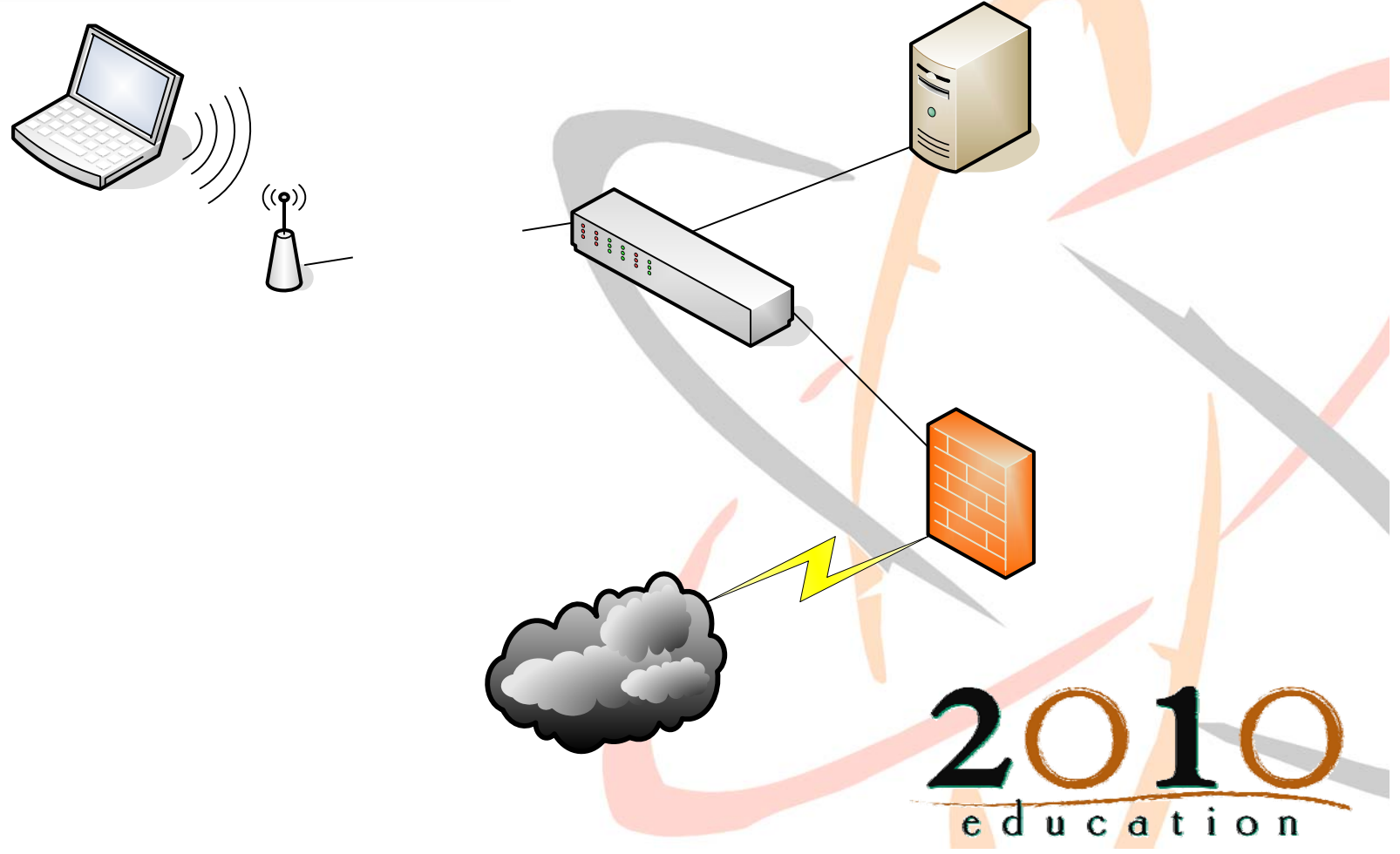
Wireless Networking Survey



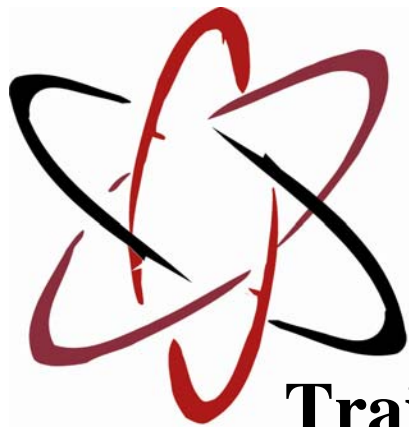
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Classroom Connections



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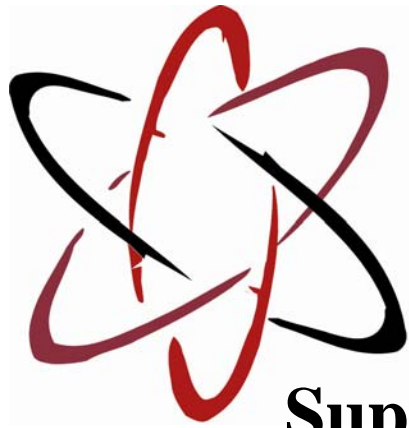


Classroom Connections

Training

- ✓ DDN IT: June 12 – June 23
- ✓ Dakota State University
- ✓ Classroom Connections track
 - ✓ Advanced active directory policies
 - ✓ RADIUS
 - ✓ Laptop hardware repair
 - ✓ Altiris
 - ✓ Virtual server
 - ✓ Windows Software Update Service (WSUS)
 - ✓ Symantec Client Security
 - ✓ Wireless configuration (AP & Desktop)
 - ✓ Help Desk management

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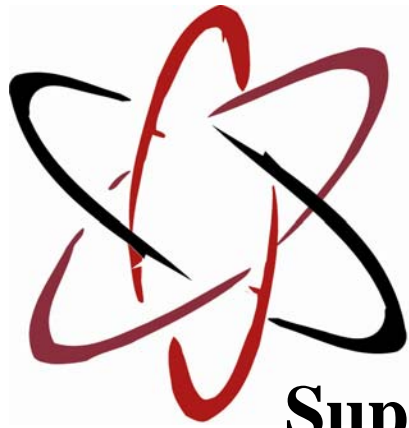


Classroom Connections

Support: Eyes Wide Open

- ✓ Additional FTE?
- ✓ Quality & skills of tech support?
- ✓ Desktop & network skills
- ✓ Standards-based infrastructure
- ✓ Parts center – repairs
- ✓ Spare laptops?
- ✓ Extra battery station

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Classroom Connections

Support: Eyes Wide Open

- ✓ Change management
- ✓ Repair charges for repeat repairs?
- ✓ Tracking system
- ✓ Local support? Students?
- ✓ Wired printers
- ✓ IT: an integral aspect of “education”
- ✓ BIT assistance on state “standard infrastructures”

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Classroom Connections

Other Considerations

- ✓ Parent involvement
- ✓ Orientation
- ✓ Projectors
- ✓ Start small – goal perspective
- ✓ Classroom management
- ✓ Student fees?
- ✓ Policies & penalties
- ✓ Electrical outlets & power strips

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Classroom Connections

Communicating the Vision

- ✓ Engage key educational audiences
 - ✓ School board
 - ✓ Business manager/administration
 - ✓ Staff
 - ✓ Community
- ✓ Development of "stump speech" - focus on students
- ✓ Allow for input from audiences
- ✓ Be prepared for the critics
- ✓ Don't make promises you can't keep

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