



CARROLL

INDEPENDENT SCHOOL DISTRICT

Technology
Subcommittee
Report



Assessment Guidelines...

- Raise the academic challenge and performance of each student.
- Ensure quality personnel in all positions
- Provide a school environment supportive of learning.
- Effectively manage and further develop financial resources.
- Improve public understanding and support of our schools.



Primary Focus Areas

- District-Wide Technology Inventory
- Network Infrastructure
- Technology Facilities
- Classroom Technology
- Enterprise Applications/Services
- Training



Computer Inventory

- Approximately 2500 Computers
 - 16% - GX1xx Series – 7 years or Older
 - 28% - GX2xx Series – 6 years or Older
 - 28% - GX5xx-6xx – 3 years or Older
 - 24% - GX7xx – 1 year
 - 4% - Laptops – 90% are 3 years or Older



Network Infrastructure

- Approximately 200 Routers/Switches
 - 85% - 5 years or Older
 - 70% - Past end-of-life
 - 95% - Will not accommodate new technologies

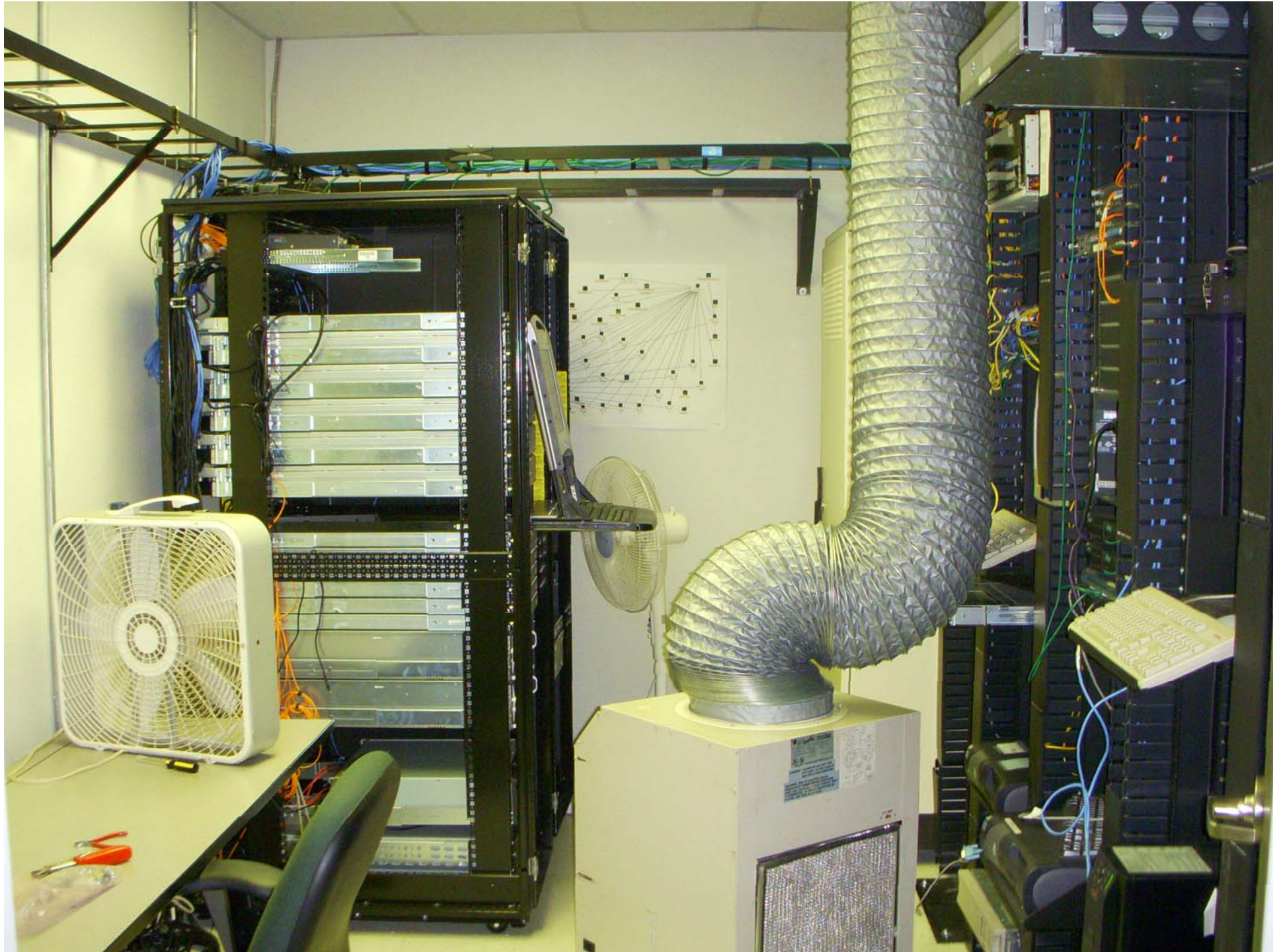


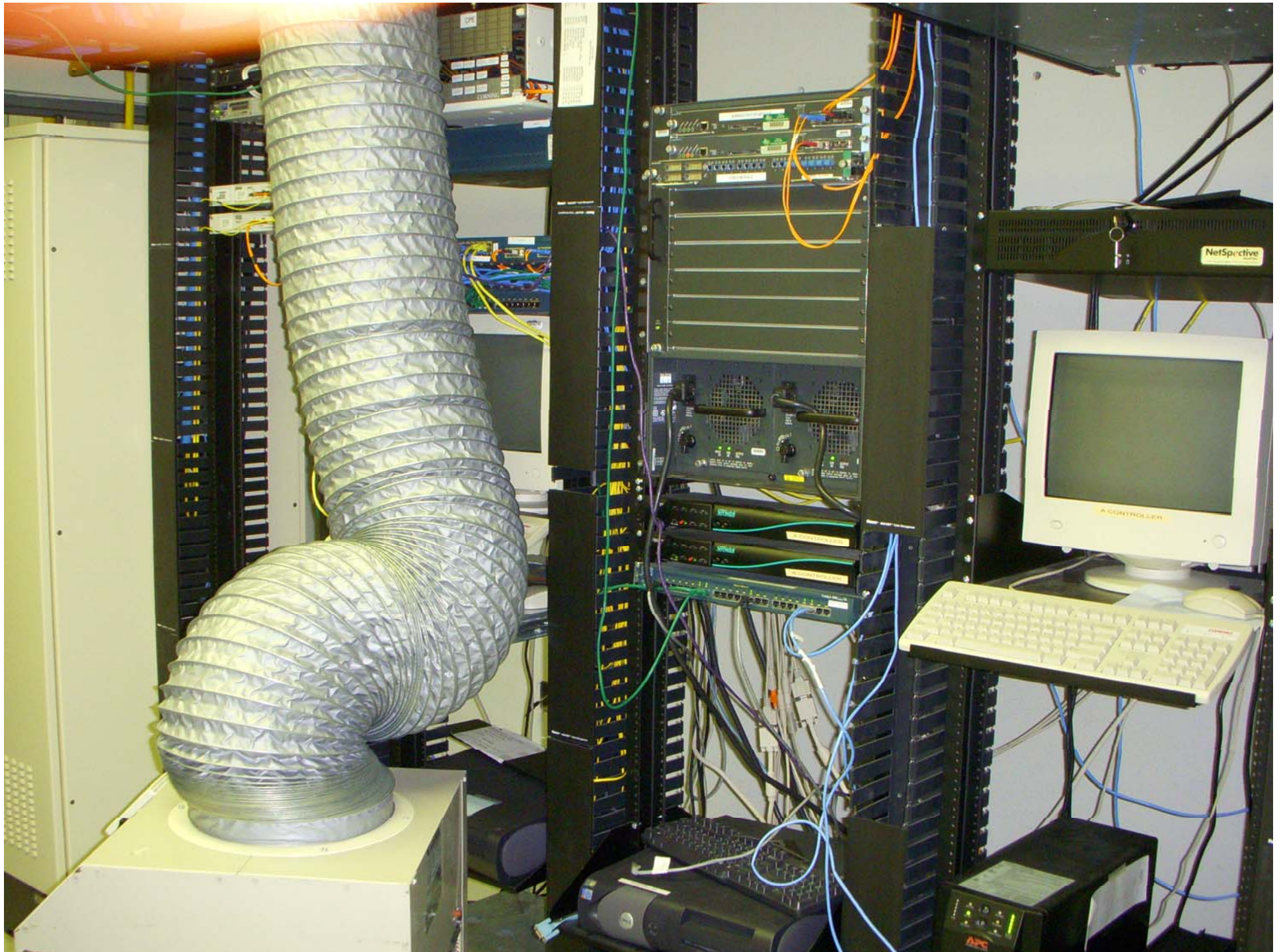
Technology Facilities

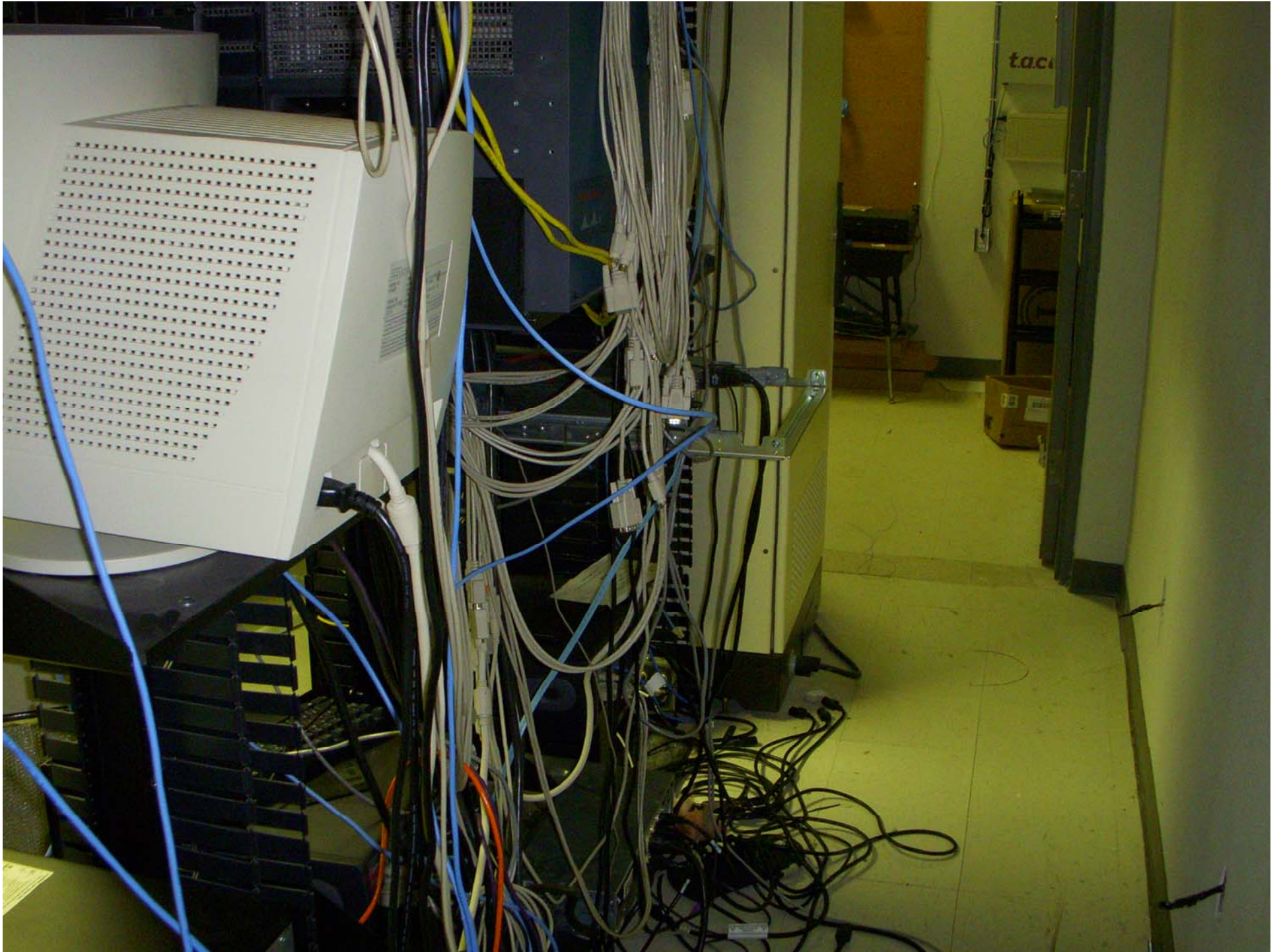
- Data Center / Network Operations
 - No Auxiliary Power
 - Inadequate Cooling Systems
 - No Data Backup/Recovery
 - No Disaster Recovery Plan

NETWORK
OPERATIONS
CENTER
(N.O.C.)





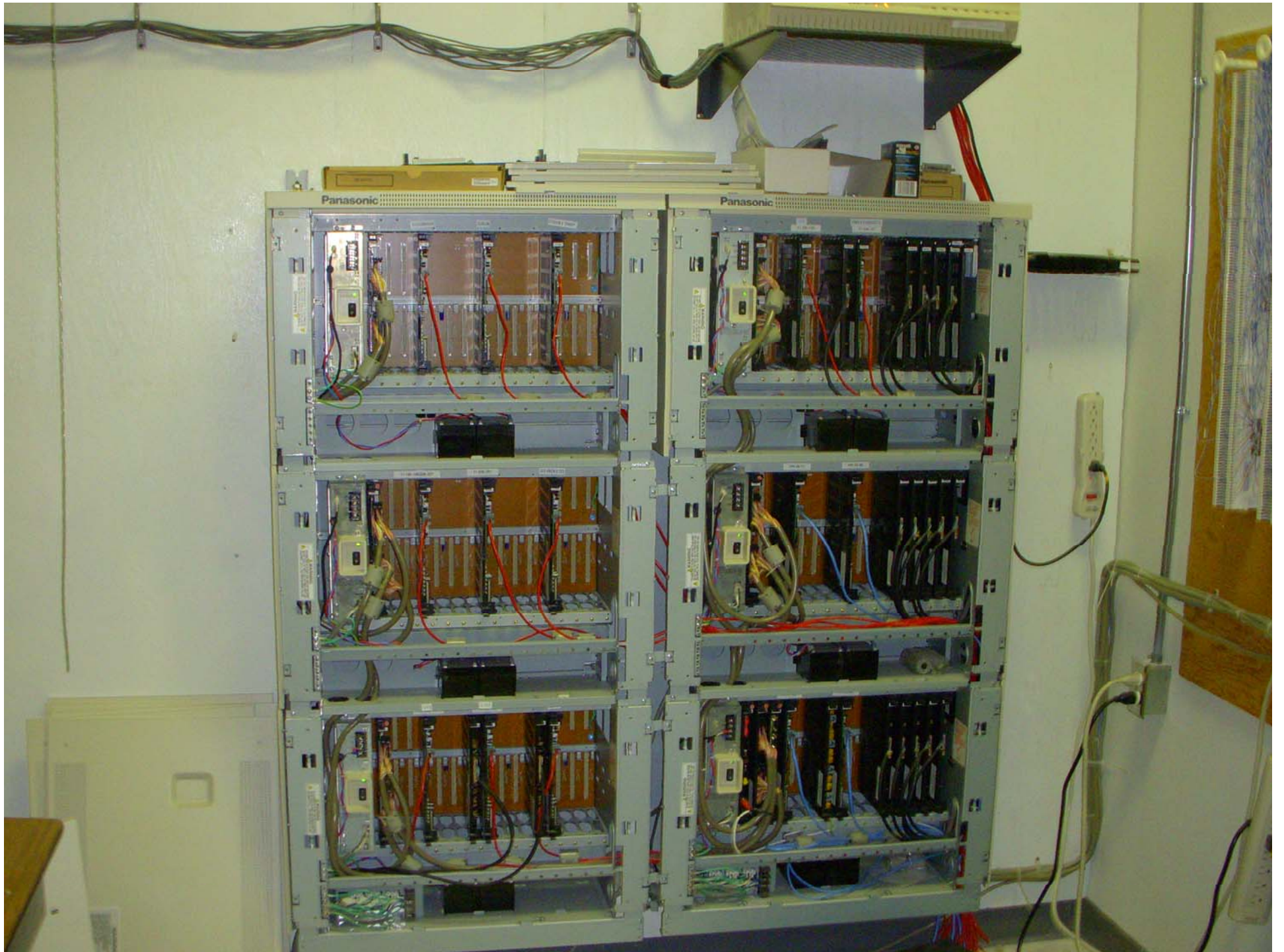






Phone System

- Manufacturer Discontinued
- No system upgrade path
- Limited support/maintenance options
- At maximum capacity for direct-dial numbers





Campus Technology

- Typical Classroom
 - 1 Teacher Workstation
 - 2 Student Workstations
- Typical Campus
 - 2 Computer Labs
 - 1 Printer



Campus Technology

Promethean Boards

- Phase 1 (complete)
- 6-12 Math and Science

- Phase 2 (in process)
- 6-12 English and Social Studies



Training

- Very little formal technology training
- Some Technology Training for New Hires
- Now Mandatory for New Technology Implementations



Short-Term Plan

- Reported Initial Findings on May 19th
- School Board Approved \$409k
 - Upgraded Skyward Information Systems
 - Auxiliary Power (Still not long-term solution)
 - Backup System
 - Upgraded Core Switches



Long-Term Vision

- Upgrade Technology Facilities/Infrastructure
- Implement New Technologies
 - VOIP
 - Wireless
 - Video on Demand/Content Delivery
 - Virtualization
- Raise Classroom Technology Standards



How Do We Get There?

√ Excellence √ Relationships √ Character & Integrity √ Innovation √ Open & Honest Communication



Improved Technical Facility

- Technology/Professional Development Center
 - New Data Center
 - New Network Operations Center
 - Technology Warehousing/Receiving
 - Technical Support/Repair Shop
 - Professional Development Training Labs



Network Infrastructure

- Review Fiber MAN/WAN Architecture
 - Lease vs. Own
- Upgrade Router/Switch Components
- Implement Server Virtualization
- Storage/Data Warehousing
- Establish Disaster Recovery Plan



New Technologies

- Converge Voice, Data, and Video
 - One infrastructure to support
 - Voice over IP
 - Wireless Networking Capabilities
 - Video on Demand / Content Delivery



K-8 Campus Standard Technology

Classrooms

- Document Camera
- Promethean Board with Short Throw Projector and dedicated Laptop
- Six Student Workstations
- One Teacher Workstation
- Access to Departmental Printing



K-8 Campus Standard Technology

Computer Labs

- Two Full Time Computer Labs
- 25 Student Workstations Per Lab
- One Instructor Workstation Per Lab
- One Enterprise Networked Printer Per Lab



K-8 Campus Standard Technology

Student Video Production Lab

- Digital Video Camera and Recording Equipment
- One Workstation for Content Editing



9-12 Campus Standard Technology

Classroom

- Document Camera
- Promethean Board with Short Throw Projector and dedicated Laptop
- Six Student Workstations
- One Teacher Workstation
- Access to Departmental Printing



9-12 Campus Standard Technology

Computer Labs

- Six Full Time Computer Labs
- One Multimedia Computer Lab with Server
- 30 Student Workstations Per Lab
- One Teacher Workstation Per Lab
- One Enterprise Networked Printer Per Lab



9-12 Campus Standard Technology

Student Video Production Lab

- Digital Video Camera and Recording Equipment
- One Workstation for Content Editing



Recommendation

Engage an architectural technology firm to complete a detailed feasibility assessment and cost analysis of the Technology Subcommittee's long-range vision.



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**The Journey To Excellence
Begins Today...**

✓ Excellence ✓ Relationships ✓ Character & Integrity ✓ Innovation ✓ Open & Honest Communication
