

**Phase 2 of the Technology Audit:  
Upgrade of the Elementary School  
Networks**

Board of Education  
Business Meeting  
March 19, 2007

*Presented by: Patrice Hatjygeorge  
Director of Technology*

## Background

**Tech Audit 2005 highlighted the following:**

- Licensing Issues
- District servers are not “real” servers
- The connectivity between the buildings cannot support the consolidation of servers
- Backup and disaster recovery functions are unreliable
- HS & MS identified as the most vulnerable

# Outcome of Tech Audit

- Phase 1: Replace the HS/MS network. (Spring/Summer 2006)
- Phase 2: Replace the Elementary School Networks (Spring/Summer 2007)
- Phase 3: On- going focus on solving our connectivity Issues. (HS/MS switch replacement, replacement of T1's to the elementary schools, upgrading our internet access bandwidth, exploring wireless options.)
- Phase 3 continued: Replace Administrative systems and thereby reduce #'s of servers.

*(All decisions backed by the District Technology Plan and the District Technology Committee)*

# Elementary Networks

- Project 1 (beginning mid-May)
  - 8 Cisco switches in 4 elementary schools
  - Domain & file servers (Brookside & Crompond)
  - Workstations & printers (Brookside)
- Project 2 (beginning July 1)
  - Domain & file servers (Mohansic and French Hill)
  - Workstations & printers (Crompond, Mohansic & French Hill)
- Work will be completed by Boces Team.

# Hardware Specs

- Servers: Dell PowerEdge 2900's
  - Dual Core Xeon processor
  - 4GB Memory
  - Four 73 GB Hard Drives
  - Windows 2003 Server OS
- Workstations: Dell GX620's
  - PD Processor
  - 1GB Memory
  - 80 GB Hard Drive
  - Windows XP OS
  - 17 inch Flat Panel Monitor

# Estimated Distribution

Building	Re-image existing workstations	New workstations	Total
Brookside	60	95	155
Crompond	55	95	150
Mohansic	40	70	110
French Hill	40	70	110
		20	
Total		350	

# Financing

- 06/07: General Funds
  - Net cost to District: \$125,000 (+ \$75,000 Leibell)
- 07/08: Year 1 IPA payment  
(Loan Amount will not exceed \$257,000. Assumed a 5.5% Rate)
  - Net cost to District : \$45,787
- 08/09: Year 2 IPA payment
  - Net cost to District: \$76,378
- 09/10: Year 3 IPA payment
  - Net cost to District: \$75,775

	06/07 School Year	07/08 School Year	08/09 School Year	09/10 School Year
Systems Integration	26,665			
Telecommunications	11,445			
Materials	98,791			
Verizon Materials	40,960			
SmartNet Coverage	3,436			
Project Management	14,399	11,814		
Procurement	1,796	2,233		
Annual Server support		5,600	5,600	5,600
Annual Desktop Support		27,360	27,360	27,360
District Funds	\$ 197,492	\$ 47,007	\$ 32,960	\$ 32,960
Systems Integration		40,701		
Telecommunications		-		
Materials		216,871		
IPA Estimated Amount		\$ 257,572	\$ -	\$ -
Grand Total Estimate	\$ 197,492	\$ 304,579	\$ 32,960	\$ 32,960
Net Effect				
District Funds	197,492	47,007	32,960	32,960
IPA Estimated Payment for 3 years	-	77,776	93,331	93,331
Net Cost to District before applying Aid factor	\$ 197,492	\$ 124,783	\$ 126,291	\$ 126,291
Boces Aid 40%		78,997	49,913	50,517
Total Net Cost to District	\$ 197,492	\$ 45,787	\$ 76,378	\$ 75,775

# Preparation

- Meeting with principals and Building Tech Team to discuss
  - Software applications (sign off on image before we ghost machines)
  - # of machines
  - Placement of machines
  - Delivery of equipment
  - Safe storage area
  - Some disruption in May and June
  - Other projects in building
  - Cooperation of the Maintenance Staff

# Results

- Ready to go on August 31, 2007!