

Amesbury School District Five Year Technology Needs

Capital Planning

May 4, 2015

Amesbury School District

5 Year Capital Planning Goals

- Continue infrastructure upgrades at AHS, AMS, AES and CES
 - Centrally manage wireless through AHS controller
 - Upgrade network switches for speed/reliability
- Add additional Mobile Carts to each school
 - Provides lab environment in any classroom
- Continue 6-Year upgrade cycle for computers
 - Provide reliable technology for classroom learning

Amesbury School District

Existing Wireless Network

- Amesbury School District has limited wireless connectivity
 - Wireless Access Points are placed in areas that require access
 - Laptop Carts have dedicated Access Points
 - Wireless System is at End Of Life (Installed 2008)
 - Many Access points are typically used for residential use
 - 9 New Enterprise Access Point installed for Teaching and Learning are centrally managed

Amesbury School District

Existing Wireless Coverage

- Amesbury High School
 - Some classrooms, laptop carts, Netbook Cart
- Amesbury Middle School
 - Library and Lobby Performance Center
- Amesbury Elementary School
 - Library and Technology Classroom and Pre-K Classroom
- Cashman Elementary School
 - Library, Technology Classroom, Pre-K Classroom and Main Office

Amesbury School District

Computers Over 7 Years Old

- Amesbury School District has older systems with no warranty coverage
 - Amesbury High School
 - 306 systems over 7 years old
 - Amesbury Middle School
 - 108 systems over 7 years old (11 over 10 years)
 - Amesbury Elementary School
 - 80 systems over 7 years old (34 over 10 years)
 - Cashman Elementary School
 - 80 systems over 7 years old (53 over 10 years)

Amesbury High School

Infrastructure Upgrade – 5 Year Capital Planning

- AHS is pre-wired for 35 Wireless Access Points
 - Wiring will support 100% coverage
 - Infrastructure Upgrade
 - Edge Switch Upgrade FY16 - \$3,500
 - Phased switch upgrade FY17 - FY20
 - 20 Wireless Access Points FY16 - \$15,800 (\$790 each)
 - Redundant Wireless Controllers FY16 - \$11,800 (\$5,900 each)
 - Controllers will be utilized district wide

Amesbury High School

Hardware Upgrade – 5 Year Capital Planning

- Amesbury High School has 306 systems that are over 7 years old (372 total systems)
 - Develop a 6-Year replacement leasing cycle
 - Begin upgrading older systems first
 - Begin upgrades in FY17
 - 200 systems per lease cycle - FY17 – FY19 (1st Lease)
 - \$37,200 per year
 - Add additional mobile cart for use in classrooms
 - Netbook Cart FY16 - \$8,000
 - Replace Laptop Carts – FY17 – FY19

Amesbury Middle School

Infrastructure Upgrade – 5 Year Capital Planning

- AMS requires wiring installation for Wireless Access Points
 - Network Upgrade
 - Edge Switch Upgrade FY16 - \$3,110
 - Replace 7 End of Life Switches - \$9,560 (\$2,390/ea)
 - Replace 6 24-Port Switches with 3 48-Port Switches
 - Replace 1 48-Port Switch
 - Phased switch upgrade FY17 - FY20
 - 13 Wireless Access Points - \$15,800 (\$790/ea)
 - Connect to Wireless Controllers at AHS
 - Central Management of Wireless Access Points

Amesbury Middle School

Hardware Upgrade – 5 Year Capital Planning

- Amesbury Middle School has 108 systems that are over 7 years old (249 total systems)
 - Develop a 6 year replacement leasing cycle
 - Begin upgrading older systems first
 - Begin upgrades in FY17
 - 125 systems per lease cycle - FY17 – FY19 (1st Lease)
 - \$23,300 per year
 - Add additional mobile cart for use in classrooms
 - Netbook Cart FY16 - \$8,000

Amesbury Elementary School

Infrastructure Upgrade – 5 Year Capital Planning

- AES requires wiring installation for Wireless Access Points
 - Network Upgrade
 - Edge Switch Upgrade FY16 - \$3,300
 - Phased switch upgrade FY17 - FY21
 - Enterprise wireless solution
 - Begin deployment in FY17
 - \$790 per Access Point
 - Centrally managed through AHS Wireless Controller

Amesbury Elementary School

Hardware Upgrade – 5 Year Capital Planning

- Amesbury Elementary School has 87 systems that are over 7 years old (176 total systems)
 - Develop a 6 year replacement leasing cycle
 - Begin upgrading older systems first
 - Begin upgrade in FY17
 - 88 systems per lease cycle - FY17 – FY19 (1st Lease)
 - \$16,400 per year
 - Add additional mobile cart for use in classrooms
 - Netbook Cart FY16 - \$8,000

Cashman Elementary School

Infrastructure Upgrade – 5 Year Capital Planning

- CES requires wiring installation for Wireless Access Points
 - Network Upgrade
 - Edge Switch Upgrade FY16 - \$3,300
 - Phased switch upgrade FY17 - FY21
 - Enterprise wireless solution
 - Begin deployment in FY17
 - \$790 per Access Point
 - Centrally managed through AHS Wireless Controller

Cashman Elementary School

Hardware Upgrade – 5 Year Capital Planning

- Cashman Elementary School has 80 systems that are over 7 years old (197 total systems)
 - Develop a 6 year replacement leasing cycle
 - Begin upgrading older systems first
 - Begin upgrade in FY17
 - 99 systems per lease cycle - FY17 – FY19 (1st Lease)
 - \$18,500 per year
 - Add additional mobile cart for use in classrooms
 - Netbook Cart FY16 - \$8,000

Amesbury School District

Technology benefits to students/learning

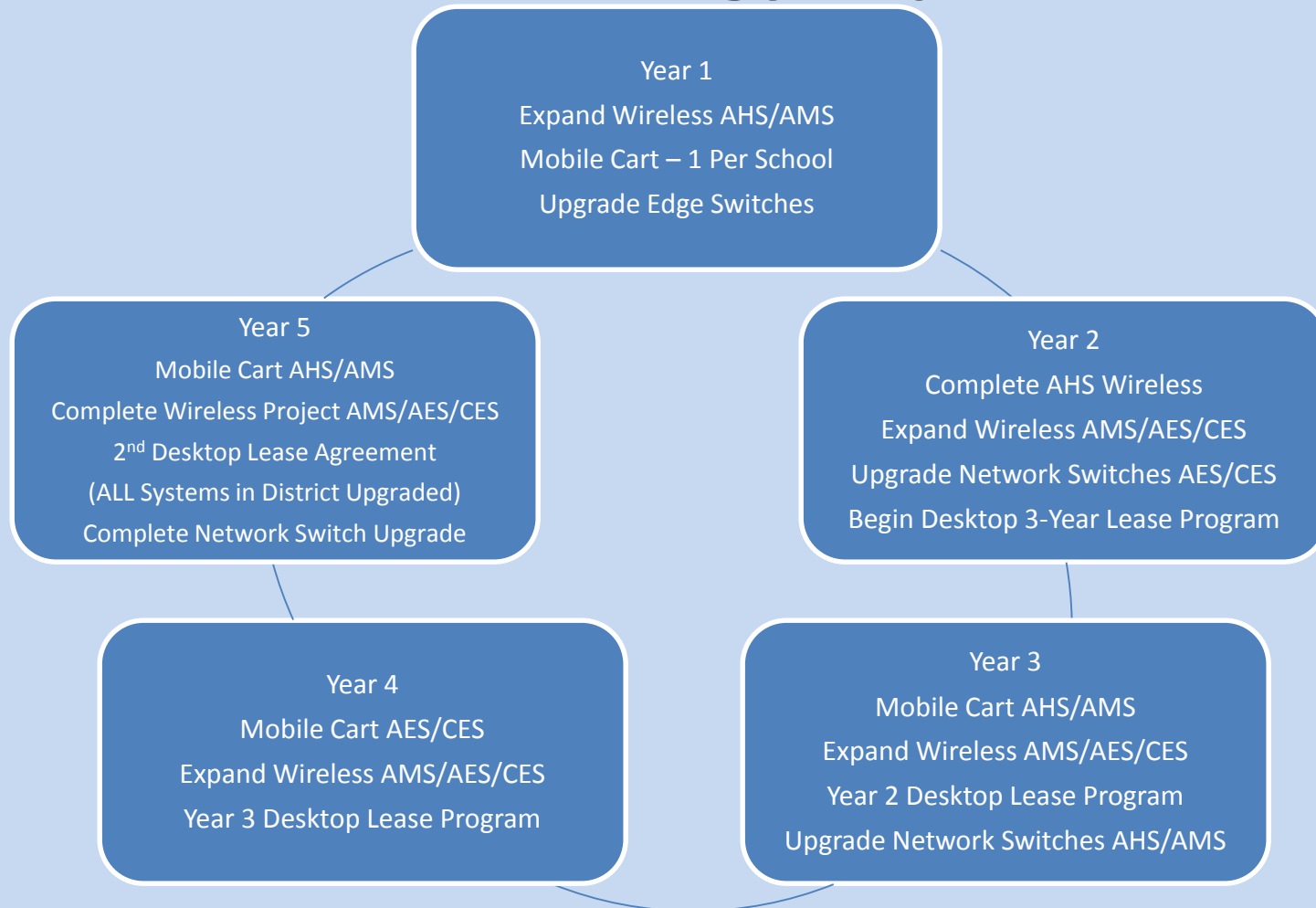
- Expand Teaching and Learning Opportunities
 - Increases the number of labs in the district
 - Provides mobile technology for classroom use
 - Provides reliable computers in the classroom
 - Increases the connectivity for Mobile Learning Devices (iPads, mobile readers, document cameras)
 - Allows on-line testing to occur district wide

Amesbury School District

5-Year Technology Capital Plan Breakdown

Location	Project	Year 1	Year 2	Year 3	Year 4	Year 5
AHS	Wireless	\$27,600	\$11,850			
	Hardware	\$3,340	\$40,540	\$40,540	\$40,540	\$40,540
	Mobile Cart	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000
	Network Switches	\$3,500		\$10,000		\$10,000
AMS	Wireless	\$10,270	\$3,950	\$3,950	\$3,950	\$3,950
	Hardware	\$3,340	\$26,640	\$26,640	\$26,640	\$26,640
	Mobile Cart	\$8,000		\$8,000		\$8,000
	Network Switches	\$12,670		\$10,000		\$10,000
AES	Wireless	\$0	\$3,950	\$7,900	\$7,900	\$7,900
	Hardware	\$3,340	\$19,740	\$19,740	\$19,740	\$19,740
	Mobile Cart	\$8,000			\$8,000	
	Network Switches	\$3,300	\$10,000		\$10,000	
CES	Wireless	\$0	\$3,950	\$7,900	\$7,900	\$7,900
	Hardware	\$3,340	\$21,840	\$21,840	\$21,840	\$21,840
	Mobile Cart	\$8,000			\$8,000	
	Network Switches	\$3,300	\$10,000		\$10,000	
Total		\$106,000	\$160,460	\$164,510	\$172,510	\$164,510

Amesbury Public Schools 5 Year Technology Capital Plan



Amesbury Public Schools

MIS Team

