# Amesbury School District Technology Update
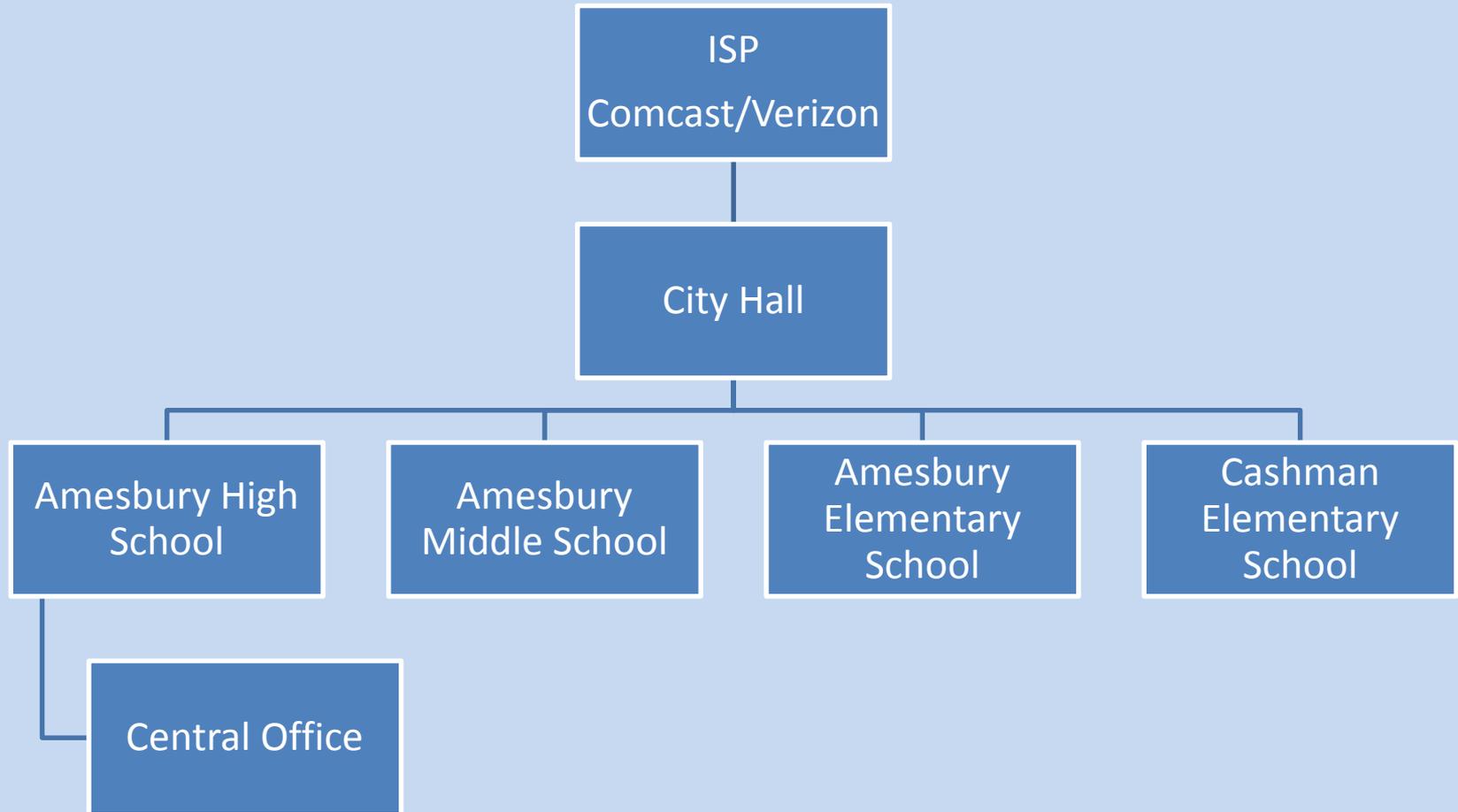
## Amesbury Technology Update

## October 15, 2013

# **Technology Overview**

- Amesbury School District utilizes Technology in four separate buildings
  - Amesbury High School
    - Central Office
  - Amesbury Middle School
  - Amesbury Elementary School
  - Cashman Elementary School

# Technology Infrastructure
## How are Things Connected

# Amesbury School District
## Internet Connection

- Comcast Business Class Service
    - 50mb/10mb (download/upload speed) District Wide
    - Shared Connection similar to Comcast Home Service

- Verizon DSL Service
    - Backup Internet Service for interruptions in Comcast Service - 5mb Speed (extremely limited bandwidth)

# Amesbury School District
## 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 developed for Home Use
  - 2 New Enterprise Access Point installed for Teaching and Learning, can be managed in the future (CES/AES)

# Amesbury High School
## Physical Network

- AHS is equipped with High Speed switches connected at 10gb
  - Switches are current with latest technology
  - Switches provide increased performance (speed) and bandwidth

# Amesbury High School
## Computer Labs/Laptop Carts

- Amesbury High School has the following resources for Student Teaching and Learning
  - 2 Computer Labs with 24 systems per lab
  - 3 Laptop Carts with 12 laptops per cart
  - Library has 21 workstations
  - Limited resources for Teaching and Learning
  - MAP Testing
    - Utilizing 1 computer lab for 12 days to test 9th grade students
    - PARCC Testing will strain resources

# **Amesbury Middle School**
## **Physical Network**

- AMS is equipped with switches connected at 1gb
  - 3 Switches are not 10gb capable
    - Switches will need replacement to improve performance (speed) and increase bandwidth
  - 10 switches are End Of Life
    - Switches are not supported with any new updates
    - Vulnerabilities will not be fixed by manufacture
    - Switches are not covered by a valid service contract

# Amesbury Middle School
## Computer Labs/Laptop Carts

- Amesbury Middle School has the following resources for Student Teaching and Learning
  - 4 Computer Labs
    - 2 labs with 29, 1 with 24 and 1 with 15 systems
  - 9 iPads for Reading
  - Library has 10 systems
  - Limited resources for Teaching and Learning
  - MAP Testing
    - Utilizing computer labs for 17 days to test students
    - PARCC Testing will strain resources

# Amesbury Elementary School
## Physical Network

- AES is equipped with switches connected at 1gb
  - Switches are not 10gb capable
  - Switches will need replacement to improve performance (speed) and increase bandwidth

# Amesbury Elementary School
## Computer Labs/Laptop Carts

- Amesbury Elementary School has the following resources for Student Teaching and Learning
  - 2 Computer Labs
    - Mac Lab with 28 iMacs
    - PC Lab with 27 computers
  - MAP Testing
    - Utilizing 1 computer lab for 2 weeks to test students
    - PARCC Testing will strain resources

# Cashman Elementary School
## Physical Network

- CES is equipped with switches connected at 1gb
  - 3 Switches are not 10gb capable
    - Switches will need replacement to improve performance (speed) and increase bandwidth
  - 5 Switches are End of Life
    - Switches are not supported with any new updates
    - Vulnerabilities will not be fixed by manufacture
    - Switches are not covered by a valid service contract

# Cashman Elementary School
## Computer Labs/Laptop Carts

- Cashman Elementary School has the following resources for Student Teaching and Learning
  - 2 Computer Labs
    - 1 Mac Lab with 26 Mac Mini's
    - 1 PC Lab with 30 systems
  - 1 Netbook Cart with 30 systems
  - MAP Testing
    - Utilizing 1 computer lab for 2 weeks test students
    - PARCC Testing will strain resources

# Amesbury School District
## Future Technology Needs
## Infrastructure

- Install Robust Wireless Infrastructure
  - Allows for wireless access in any building with central control

- Migrate to Enterprise Class Internet Access
  - Dedicated service from Internet Service Provider to Amesbury with to increase speed

- Upgrade Switches
  - 10gb Backbone provides an increase in performance (speed) and bandwidth
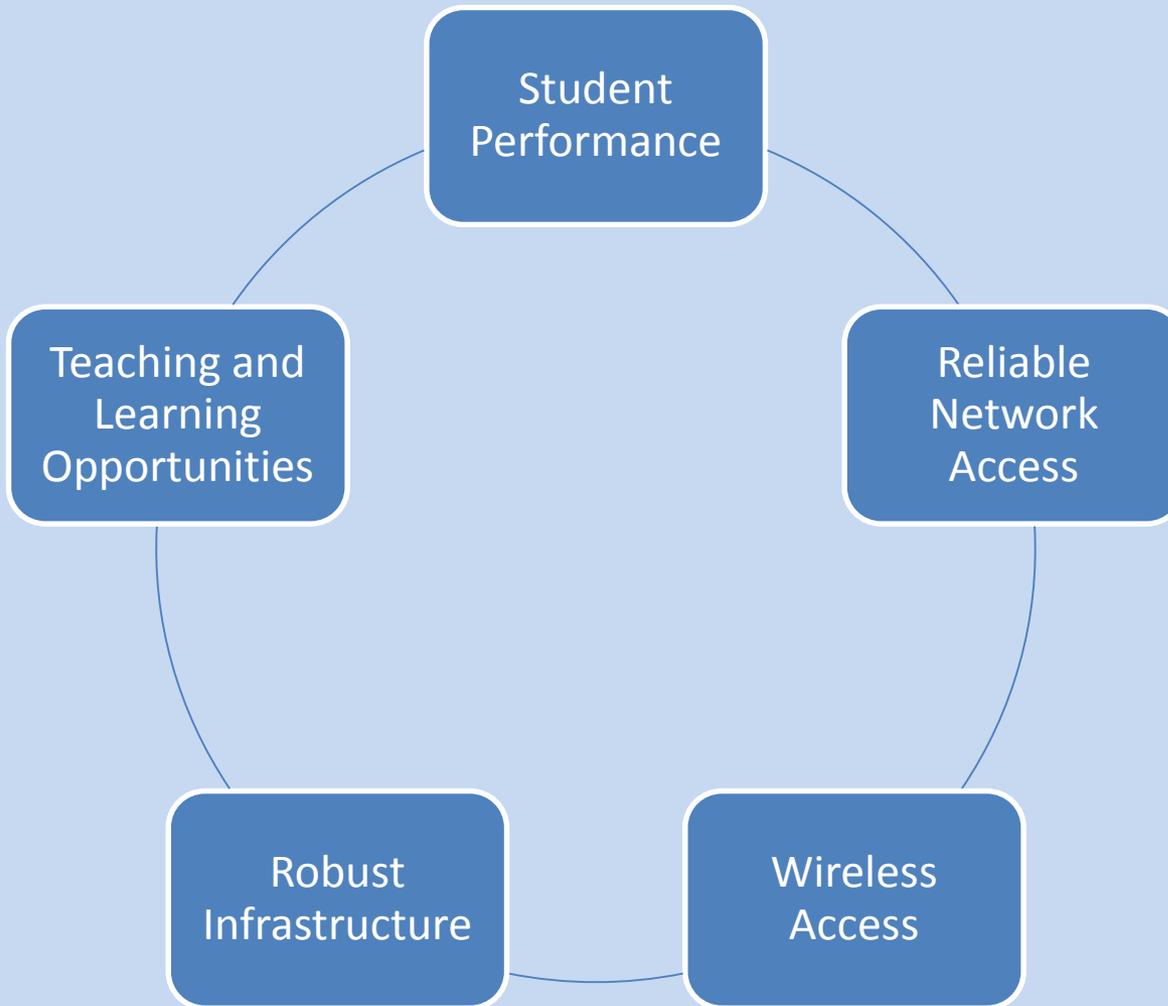
# Amesbury School District
## Future Technology Needs
## Teaching and Learning

- Expand Teaching and Learning Opportunities
  - Increase the number of labs in the district
  - Increase the number of computers in the classroom
  - Increase the number of Mobile Learning Devices (iPads, mobile readers, ELMO's)
  - Technology delivered curriculum (Virtual HS, online courses, etc)
  - Replace and redeploy systems within the district

# Technology Infrastructure
## Amesbury School District Future

# MIS Team

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Martine Fabre
District Network Manager
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