In Support of the District Strategic Plan

• Elements of System Infrastructure:
  • More than 1,200 end-user computing devices, thousands of peripherals
  • More than 10,000 end-user accounts
  • 8 core systems supporting productivity, student information, and staff
  • 14 additional support systems ranging from emergency call to library
  • More than 50 virtual servers
  • A complex wide and local area network

• Supporting Staff:
  • Director of Technology, Network Manager, System/Data Manager, Technology Specialist, Technician, Administrative Support (Total FTE = 6)
Barrington Public Schools – Systems of Support
October, 2013

Productivity
- Network
  - Windows
- Email
  - Outlook
- Productivity
  - MS Office
- Web
  - Sharepoint

Student Management
- Student Information System and portal
  - Aspen X2
- Curriculum and Learning
  - Aspen X2
- Response to Intervention
  - Aspen X2
- Special Education
  - TIENET (Aspen 5/2014)

Staff Management
- Sub/Attendance
  - AESOP
- Business Office
  - (admin & office staff only)
- Educator Performance and Support System
  - EPSS (RIDE)
- Growth Model Visualization
  - RIGM (RIDE)

Other Support
- Emergency Notif.
  - CODERED
  - State Reporting
  - ERIDE
- Time and attendance
  - TIMECLOCK PLUS
  - Repairs and Orders
  - SCHOOLDUDE
  - Hiring
  - SCHOOLSPRING
  - Asset Management
  - GFAMS
  - Food Service
  - NUTRIKIDS
  - Transportation
  - FIRST STUDENT
  - Library
  - DESTINY
  - Positive Behavior
  - SWISS
  - HS Guidance
  - NAVIANE
  - Online Learning
  - DISCOVERY
  - Assessment
  - STAR (9/2012)
  - AIMSWEB

*** All systems are accessible on your school desktop or through www.barringtonschools.org ***
BPS Backend *Physical* Server Location and Roles July, 2013

**ADMIN**
- AO-ESX-1
  - Dell PowerEdge 1710, dual core, warranty exp 4/2015
- AO-ESX-1
  - Dell PowerEdge 1710, dual core, warranty exp 4/2015
- SAN MD3000i, warranty exp 4/2014
- SAN EQP6100
- Switches 2 HP ProCurve 1810G-24, lifetime warranty

**BHS**
- BHS-ESX-1
  - Dell PowerEdge 2900, dual core, warranty exp 11/2012
- BHS-ESX-2
  - Dell PowerEdge 2950, dual core, warranty exp 11/2012
- SAN Equallogic PS6000E (J253HJ1), warranty exp 4/2016
- Switches 2 Cisco Catalyst 3560E, lifetime warranty

**BMS**
- BMS-ESX-1
  - Dell PowerEdge R900, quad-quad core, warr. exp 6/2015
- BMS-ESX-2
  - Dell PowerEdge R900, quad-quad, warr. exp 6/2015
- SAN Equallogic PS5000XV, warranty exp 8/2014
- Switches 2 Cisco Catalyst 3560E, lifetime warranty

**HMS**
- HMS-ESX-1
  - Dell PowerEdge T310 single core, warrant exp 8/2014

- **Backend Software (major)**
  - Microsoft School Agreement Data Center, VMWare v5, Backup Exec, Storage Replicator, Altiris, Open DNS, m8E6
Goal 1: Ensure Success for Every Student

Strategy: Establish a Comprehensive Assessment System

- Continue with PARCC readiness process at state and local level.
- Status: In-progress
  - Garnered community support to re-establish capital allocation for technology
  - Purchased and distributed 250 Fujitsu tablets for classroom teachers in preparation for instructional shifts
  - Will purchase additional devices to cover instructional areas not covered in first phase
  - Shifting 125 in-cycle classroom computers to elementary will reduce deficit from 356 to 231

<table>
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<tr>
<th>School</th>
<th>Grade Levels</th>
<th>Max Std at 1 Gr level*</th>
<th>Std Per Device **</th>
<th>Days for Admin</th>
<th>Accessible Computers</th>
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</tbody>
</table>

* Based on 3/14/2013 enrollment moving up 2 grade levels for FY15
** PARCC Rule of Thumb: For schools with 1, 2 or 3 tested grade levels, 2 students per device at largest grade level
For schools with more than 3 tested grade levels, 1 student per device at largest grade level
Goal 2: Building Productive Partnerships

Strategy: Operationalize Common Vision

• Develop district scorecard to include progress toward achievement of goals and annual update of student demographic, attendance, student achievement, gap closure, discipline data, graduation rates, teacher-student.
  • Status: In-progress
  • District scorecard http://www3.barringtonschools.org/scorecard/default.aspx
  • Future Plan: Pending completion of District Communication Plan

Strategy: Redesign and Transform Online Presence

• Complete redesign and rollout of SharePoint 2010 district website to strengthen online presence and incorporate collaboration tools including project management.
  • Status: In-progress
  • Elementary schools have transitioned to new site format http://www3.barringtonschools.org/default.aspx
  • Classroom websites have been moved into Aspen Class Pages – strategic change in direction
  • All elementary families have received Aspen Accounts
  • Elementary report cards, redesigned to meet Common Core, will be published to Aspen and viewable by families
  • Future Plan: Pending completion of District Communication Plan
Goal 3: Promote a Positive Culture

• No technology-specific action items – ongoing collaborative support of strategies aligned with supporting professional learning community
Goal 4: Providing Optimal Learning Environments

Strategy: Revitalize Policies in Place

- Revise District Acceptable Use Policy to reflect “responsible use” in a contemporary learning environment and evaluate the need for additional policies associated with technology.
  - Status: Complete
    - Responsible Use Policy approved by School Committee June 20, 2013

Strategy: Infrastructure to Access and Enable

- Increase Internet bandwidth from current 24 MB to 200 MB in support of current and expanded need.
  - Status: In-progress
    - Bandwidth increased to 100 MB with capacity to burst to 150 MB
    - Hope to leverage both Internet and internal connections through decreasing prices and expanded funding FY15

Strategy: Technology to Engage and Empower

- Establish internal technology advisory group to assist with developing a model classroom configuration and support the integration of rich digital content into the curriculum.
  - Status: In-progress
    - Successful Unconference, ongoing PD in all schools, embedded in all curriculum development
Goal 5: Effectively Manage Fiscal Resources

**Strategy: Maximize External Infrastructure Funding**

- **Aggressively pursue 200 MB architecture using annual federal eRate discounting as available – 40% discount**
  - Status: In-progress, see Goal 4
- **Leverage RI Wireless Access Bond to ensure site survey and implementation occur on head-of-line timetable**
  - Status: In-progress
    - 3 vendor proposals received at RIDE and reviewed by RIDE and district
    - Questions have been submitted to vendors for clarification on proposals

**Strategy: Manage Lifecycle Prudently**

- **Develop a comprehensive plan to consolidate head-end.**
  - Status: In-progress
    - Continued path of server virtualization and migration to head-end at BHS and Admin Office
    - Internet entry point moved from BMS to Admin
    - Wireless controllers will be moved from BMS to Admin (11/29/2013)
    - Admin head-end must be moved to secure temperature-controlled environment connected to generator
Goal 5: Effectively Manage Fiscal Resources

**Strategy: Integrate Future Special Education Case Management System with Emerging RIDE Preference**

- Monitor RIDE and, where possible, lobby for initiative on quality systems for special education case management – leverage available opportunities that yield cost effective, functional solutions.
  - Status: In-progress
    - No emerging RIDE preference so we will embed in Aspen – ideal solution, single system to access student information
    - Major system rollout impacting all reporting and case management
    - Conversion will begin in the spring to be completed in the early summer of 2014.

**Strategy: Integrate 1:1 and PARCC Plan to Increase Return on Investment**

- Develop a comprehensive, 5-year plan to support the introduction of 1:1 in grades 4-12. (subsumes PARCC readiness requirement)
  - Status: In-progress
    - Technology subcommittee investigating BYOD and 1:1 programs
    - Will participate in 2013 Speak Up Survey again this year
Questions?