

Hamilton School District Technology Mission Statement and Overview

The Hamilton School District maintains a fully developed network infrastructure guided by the following tenants:

- Nimble** - our network and technology infrastructure is built and configured to provide support for any modern system that teachers would need to use in their classrooms. We support all conventional Operating Systems and can provide focused support for the implementation and deployment of the same.
- Secure** - our network utilizes state of the art Firewall Protection systems to prevent outside intrusion and each endpoint device is protected by a cloud based Anti-Virus management system that gives visibility to all devices in real time regarding infections and malicious/suspicious behavior. The network servers and hardware are protected within the Active Directory Security Group's best practice approach.
- Robust** - as of January 2014 the district invested nearly a half a million dollars in a network "backbone" rebuild. This included upgrades of all server hardware and managed switch hardware, network wide, across all 5 buildings. District servers were all virtualized to bring our network up to modern standards and allows us to proceed forward with implementing a best practice approach to server hosts and ensures adequate processing power for all the network resources supported across the network. We continue to be proactive and forward thinking in this regard. Our most recent upgrades were to bring our on premise Exchange server up to Exchange 2016 and the transition to an IP based network phone system in two buildings. We will continue this phone upgrade process across the remaining district buildings. The District recently negotiated with Spectrum to increase our bandwidth from 100MB/sec to 200MB/sec with no increase in cost. Future expansions are currently in negotiation. The district has a full 1GB connection between buildings for all Network data.
- Scalable** - we continue to approach the network systems that support classroom teachers and admin with an eye to the future innovations on the horizon. Equal emphasis is given to the future increases in both devices on the network and students and staff working with those devices during the day to day activities of the school district. All network systems that support the learning environment are evaluated against the need to increase in scale as the district implements new resources and technology solutions. All network system are additionally evaluated regarding their ability to scale as the district grows in size in student numbers.

Building Specific summary regarding technology infrastructure:

Washington School Building

The Primary School at Hamilton School District has enterprise level technology solutions with regard to all infrastructure components. The wifi system is a enterprise grade Cisco System that is only 3 years old, with upgrades planned for no later than winter 2017.

Administrative Staff all have modern hardware and connectivity to numerous network-based and cloud-based resources.

Teachers all have IBM/Lenovo hardware and most classrooms utilize Apple iPads for small group activities and teacher guided instruction. Many classrooms have Smart board technology in place for enhancing instruction.

Students are given age appropriate exposure to both Apple iOS devices and Microsoft computers.

Building Specific summary regarding technology infrastructure (continued):

Daly Elementary Building

The Elementary School at Hamilton School District has enterprise level solutions with regard to all infrastructure components and wifi network. It has the same Cisco wifi system as all buildings in the district.

Administrative Staff all have modern HP or Dell hardware and full connectivity to numerous network-based and cloud-based resources.

Teachers all have IBM/Lenovo computer hardware and each grade level has access to both shared iPad carts and shared Google Chrome book carts with 30 devices per cart. Each classroom has multiple laptops for student to use for web based reading tests and similar. These classroom laptops (typically 2-4 devices) have either Microsoft and Apple operating systems. All classrooms have Smart board or Smart projector technology in place to enhance instructional activities.

Students are given age appropriate exposure to cloud-based desktop publishing and collaboration tools. Students have active accounts for both Google G-suite and Microsoft Office 365 functionality. Students are exposed to Google operating system, Microsoft operating system and Apple operating system devices.

Hamilton Middle School Building

The Middle School at Hamilton School District has enterprise level solutions with regard to all network infrastructure components and the same district wide wifi system used across all buildings.

Administrative Staff all have modern HP or Dell hardware and full connectivity to numerous network-based and cloud-based resources.

Teachers all have either Lenovo, Dell, Toshiba or Apple computer hardware and many have Apple iPads and Apple TV's to enhance the instructional setting and classroom activities. All classrooms are equipped with projector display systems and approximately half classrooms have Smart board, Smart projectors or Smart touch screen + Kapp board displays. Teachers have access to three separate 30 station computer labs: the library lab has Apple iMacs purchased Fall 2015, the 6th grade lab are 2009 iMacs, and the POD lab computers are all 2009 Windows 7 HP computers. Teachers also have access to two iPad mobile lab carts which contain 30 devices each. All district owned iPads are set up with bluetooth keyboards for maximum functionality.

Students are exposed to age appropriate technology integration in all content areas. Students have active accounts for both Google G-suite and Microsoft Office 365 functionality. Teachers utilize both computer software as well as cloud-based desktop publishing and collaboration tools within the instructional setting. Students are given opportunities to gain mastery of both Microsoft operating system environments and Apple operating system interface as well as Apple's iOS system.

Hamilton High School Building

The Middle School at Hamilton School District has enterprise level solutions with regard to all network infrastructure components and the same district wide wifi system used across all buildings.

Administrative Staff all have modern Apple, HP, or Dell hardware and full connectivity to numerous network-based and cloud-based resources.

Teachers have IBM/Lenovo or Toshiba computer hardware. The District Network supports numerous device and software platforms to accommodate the technology teaching tools that many High School teachers have acquired through Grants and Federal Programs. All classrooms have projection/display systems, which includes Smart technology were appropriate. Additionally, teachers have access to a mobile iPad cart and two full Windows 10 computer labs with newly purchased Acer computers.

Students are given an opportunity to gain mastery of numerous technology enhanced subject areas. These include, but are not limited to: C ++ and Small Basic programming software, MasterCam and CAD/CAM design software, Web development and desktop publishing software, USB interface scientific measurement software/hardware.