

# Manchester Public Schools

## Technology Interoperability Standards

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Revised March 25, 2015

### Introduction:

These Technology Interoperability Standards are intended to inform the design process and bid specifications for school building projects so the technology purchased during building projects is compatible with the school system's and town's existing technology and supports the educational goals of the town and school system. The Town of Manchester Building Committee formally adopted these standards and their updates at a meeting on October 1, 2009.

Given the nature of technology, they are updated on a regular basis.

Further information about these standards may be obtained from Kerri Kearney: Instructional Technology Supervisor ([b11kkear@mpspride.org](mailto:b11kkear@mpspride.org), 860-647-6322).

### Networking:

The school district has adopted Cisco networking equipment as the standard. Current switches being purchased are Cisco C3850F-48L and Cisco. Additions to the data network must utilize the school district's current Cisco switches. All IDF switches must be connected to the MDF switch by multimode or single mode fiber cable. All new multimode fiber installations should be done with 10GB compliant OM4 grade 50/125um multimode fiber cable. Copper or wireless links may be used from an IDF to the clients. All cables, racks, cabinets must be labeled as per accepted standard (IDF name/#, source/destination, location, etc.). All wireless access points are Aruba 802.11ac/g/n managed from either an Aruba 3000 or 7000 series controller.

### Phone System:

Whenever possible and appropriate the District will use Alcatel VOIP phones. The preferred configuration is for a local PBX box to handle 911 calls from any of the phones connected to the Alcatel system. The minimum phone model will be the IP Touch 4068 with higher models for main administrative staff.

POTS (Plain Old Telephone Service) over copper lines is required in certain situations such as elevators, Fire alarms, HVAC systems and FAX. These lines also provide emergency call-out service in cases of extended power or network outages.

### Security Camera System:

Cameras must be compatible with H.264 formats and be power over Ethernet compatible. The school district owns and uses an enterprise version of IP Video camera system software so additional software is not needed. An additional IP Video license will need to be purchased for each additional camera and a new camera server needs to be purchased for every 60 additional cameras. All new or replacement cameras are Sony 1080P record-on-motion cameras purchased through the eligible bid.

### Building Access Badge System:

All new building-access-badge equipment must be compatible with WinDSX. The school district owns and uses an enterprise version of WinDSX so as many buildings and or badge readers can be added as needed. Other than having to use WinDSX panels for communication, this system is non-proprietary and can be programmed to use most badge reader devices, e.g. HID badge readers. Any building can be connected to the Education Center using WinDSX network adapters and the school district's fiber network. Badge readers and badges must support encryption higher than 26 bit.

### Public Access Control System:

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The school district uses AiPhone Door control systems to control public access into school buildings. It consists of one or more pan-able cameras mounted outside the controlled entry door and a video phone system. These systems allow office personnel to see and speak to individuals wishing to enter the building and then remotely grant building access by activating an electrified door lock mechanism.

### **Network Based Software:**

The school district's network uses Microsoft Active Directory. All new software must be able to run either as a standalone client or make use of the active directory network as client/server based software.

### **Intercom System:**

The district uses the most recent version of Bogen's Multicom 2000® Administrative Communication System for school intercom systems.

### **Library Circulation System:**

The school district owns and uses an enterprise version of Follett's Destiny so any additional hardware or software must be 100% compatible with this system. Destiny runs off an SQL database.

### **Cafeteria System:**

The school system owns and uses eTritionWare Meal Tracker. Any additional software/hardware must be 100% compatible with this system.

### **Manchester Public Schools Hardware Specifications:**

The Manchester Public Schools maintains standard makes, models, and prices for technology equipment including desktops, laptops, printers, interactive white boards, digital projectors, and software based on specifications and prices in contracts that have been competitively-bid by the organizations listed below. The Manchester technology equipment standards makes, models, and prices are updated as the competitively-bid contracts expire and new contracts are issued. A copy of the current standard make, models, and prices may be obtained by contacting Kerri Kearney: Instructional Technology Supervisor ([b11kkear@mpspride.org](mailto:b11kkear@mpspride.org), 860-647-6322).

- The State of Connecticut maintains competitively bid contracts for desktop, laptops, servers, software, audiovisual equipment, printers, computer peripherals through the [Department of Administrative Services](#).
- [US Communities](#) is a nonprofit purchasing alliance that competitively solicits contracts for products through and for governments. The founding co-sponsors of US Communities include the Association of School Business Officials International, the National League of Cities, and the United States Conference of Mayors.
- [PEPPM](#) is a technology cooperative bidding program operated by a Pennsylvania Regional Educational Service Center which is sponsored in Connecticut by CREC and the Connecticut RESC Alliance.
- The [CT Consortium for Cooperative Purchasing](#) offers competitively bid office and classroom supplies, audio visual and office machines and service, and assistive technology to all CT schools and municipalities.
- Manchester participates in [Western States Contracting Alliance](#) competitive bids for HP and Dell.

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- The [Connecticut Library Consortium](#) is a collaborative of Connecticut libraries that negotiates discounted pricing on behalf of member libraries.
- The [Association of Educational Purchasing Agencies'](#) (AEPA) offers pre-bid contracts on copiers and school furniture.
- [Buy Board National Purchasing Cooperative](#) offers competitively bid contracts on a variety of technology products.
- MEHC-

District-wide Software Systems In Use

<b>Type of Software</b>	<b>Product</b>	<b>Company</b>
Financial System	MUNIS	Tyler Technology
Personnel System	MUNIS	Tyler Technology
Employee Time and Attendance	Workforce Timekeeper	Kronos
Recruitment/Hiring	AppliTrack	General ASP
Emergency Notification System	School Messenger	Reliance Communications
Camera Control System	Sentry VMS	IP Video Corporation
Security Badge System	WinDSX	International Security Control Solutions
Cafeteria System	eTriton7	Harris School Solutions
Student Information System	eSchool PLUS+	SunGard Public Sector
Transportation	Routefinder	Transfinder
Special Education System	IEP Direct	Centris Group
Assessment Data Management	Performance Tracker	SunGard Public Sector
Student Attendance Monitoring	Swipe Premium	Swipe K12 School Solutions Inc.
College and Career Planning	Naviance	Hobsons
Online Assessment	Measures of Academic Progress, MAP for Primary Grades, Skills Pointer, Children's Progress Academic Assessment, Smarter Balanced	Northwest Evaluation Association
Website Management	fsContentManagementSystem	FinalSite
Online Student Registration	Online Student Registration	InfoSnap

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Educator Evaluation Automation	TalentEd	NetChemia
Library Management System	Destiny Library Manager	Follett Software
Student Accountabilities	Destiny Textbook Manager	Follett Software
Technology Support	IT Direct	School Dude.com
Technology Asset Management	ITAM Direct	School Dude.com
Headstart Student Information System	ChildPlus	ChildPlus Software
Standard PC Operating System	Windows 7	Microsoft
Standard Mac Operating System	OS 10.x current version	Apple
Office Productivity Suite for PCs	Microsoft Office Pro 2007/2010/2013	Microsoft
Office Productivity Suite for Macs	Microsoft Office Pro 2008/2011	Microsoft