



DISTRICT 96 TECHNOLOGY 3YR ROADMAP



ALL THE **TOPICS** WE WILL COVER TONIGHT

- ▶ Environments: Local, Premise, Hybrid & Cloud
- ▶ Connectivity & Infrastructure
- ▶ Premise Network Hardware
- ▶ Devices
- ▶ Safety & Security
- ▶ Web & Social Media Presence

1.

Environments: Local, Premise, Hybrid & Cloud

Local

Applications running on a user's "local" device

Premise

Applications / Services running on a server(s) or appliance with our organization's network

Hybrid

Applications / Services running in more than one environment

Cloud

Applications / Services running on servers accessed globally over the Internet, and the software and databases that run on those servers.

CLOUD, HYBRID, PREMISE & LOCAL (CURRENT)

CLOUD

Office 365 / Email

Google G-Suite

PowerSchool Services

Curriculum Applications & Services

Technology Services Applications

Business Office Application & Services

Website / Apptegy

Zoom / VoIP Phone System

Azure Active Directory

Building Access Control (Azure)

HVAC (Azure)

Intercom Management @ HJH (Azure)

PREMISE (Windows Services)

DHCP (Moved to Switch Hardware)

LOCAL

Microsoft Office

Microsoft Outlook

Apple Office Suite Apps

Adobe Acrobat

Antivirus

Peripheral Communications Software

iOS Apps

Internet Browser

HYPER-V

Microsoft's technology that allows users to create virtual computer environments, and run and manage multiple operating systems on a single physical server

3YR PLAN: MOVE **PREMISE** TO THE **CLOUD**

- Microsoft Active Directory > Azure - **COMPLETED**
- DHCP > External Only - **COMPLETED**
- DNS > Premise Network Hardware - **COMPLETED**
- VoIP Phone System > Zoom Hosted VoIP Service Provider - **FALL 2025 RENEWAL**
- Building Access Control > Azure - **COMPLETED**
- Facilities Heating / Cooling Controls > Azure - **COMPLETED**
- New Hosted Building Access Control Solution - **IN PROCESS**
- New Hosted Security Camera Solution - **IN PROCESS**
- New Hosted Classroom/Office Intercom System - **IN PROCESS**

Azure

Microsoft's public cloud computing platform

DHCP

Dynamic Host Configuration Protocol (DHCP) is a protocol that automatically provides IP address and other related network information to a device

DNS

The Domain Name System (DNS) is the phonebook of the Internet.

VoIP

Voice over Internet Protocol

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2.

Connectivity & Infrastructure

RESPECT RESPONSIBILITY **AGILITY** RESILIENCE **EQUITY** INCLUSION INNOVATION CREATIVITY EMPATHY COMPASSION

3YR PLAN: INCREASE **BANDWIDTH** & REDUCE COSTS

Internet Bandwidth

Upgrade from 1GB to 2GB - **COMPLETED**

Switch ISPs

Move from Comcast to Illinois Century Network / AT&T - **COMPLETED**

Improve Service & Reduce Costs

ICN services are largely subsidized by the State of Illinois - **COMPLETED**

Add Redundancy

Add broadband failover at each site - **COMPLETED**

Data Closet UPS Battery Replacement

Replace Batteries in Existing UPS Units (5 YR Cycle) - **IN PROCESS / COMPLETE SUMMER 2025**

E-Rate

The FCC's program designed to make telecommunications and information services more affordable for schools and libraries

ICN

The Illinois Century Network (ICN) is a high performance network built to meet the Internet and Intranet needs of the educational, research and governmental organizations serving the citizens of Illinois State wide.

ISP

Internet service provider

3.

Premise Network Hardware

3YR PLAN: INCREASE **BANDWIDTH** & IMPROVE COVERAGE

Firewall / Security Appliance

Upgrade needed to accommodate increase in Internet bandwidth - **COMPLETED**

Network Switches

No upgrades on existing switches needed till 2030

Additional switches will likely be required to accommodate increased number of PoE (Power-Over-Ethernet) to support all new security project-related devices.

Wireless Network - **IN PROCESS**

Wireless Network Upgrade - Scheduled for Summer '25: E-Rate Funded (Pending Board Approval)

E-Rate

The FCC's program designed to make telecommunications and information services more affordable for schools and libraries

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4.

Devices & Classroom Tech

RESPECT RESPONSIBILITY **AGILITY** RESILIENCE **EQUITY** INCLUSION INNOVATION CREATIVITY EMPATHY COMPASSION

3YR PLAN: CONTINUE WITH EXISTING **REPLACEMENT** CYCLES

Staff Macbooks

5YR replacement cycle

Student 1:1 Chromebooks

GR 3-5: 5YR replacement cycle

FY27: 600 units

FY28: 600 units

GR 6-8: 3YR replacement cycle

Student 1:1 iPads

GR K-2: 5YR Replacement cycle

3YR PLAN: CONTINUE WITH EXISTING **REPLACEMENT** CYCLES

Projectors

7YR replacement cycle: **Next replacement SY26-27**

Investigate Flat Panels as Replacement Technology

Document Cameras

7YR replacement cycle: **Next replacement SY26-27**

Control Boxes

7YR replacement cycle: **Next replacement SY26-27**

5.

Safety & Security

The Children's Internet Protection Act (CIPA).
Enacted to address concerns about children's access to obscene or harmful content over the Internet

3YR PLAN: MAINTAIN INTERNET SAFETY PRACTICES

Content Filtering & Student Safety

Continue with Securly services

Internet Safety Curriculum - REVIEW & UPDATE NEEDED

Continue utilizing Common Sense Media's Digital Citizenship Curriculum

- ▶ Grade-Level Specific Lessons and Resources
- ▶ Addresses top concerns for schools
- ▶ Prepares students with critical 21st-century skills
- ▶ Supports educators with training and recognition
- ▶ Engages the whole community through family outreach

3YR PLAN: **SECURITY** CAMERA, ACCESS CONTROL & PA SYSTEM MODERNIZATION

Cabling Infrastructure Expansion

Data cabling to support modernization of existing systems - **IN PROCESS**



6.

Web & Social Media Presence

Web Content Accessibility Guidelines (WCAG) 2.0 Level AA Accessibility Compliance

This conformance level is used in most accessibility rules and regulations around the world, including the ADA.

To meet WCAG 2.0 Level AA conformance, the website is usable and understandable for the majority of people with or without disabilities.

3YR PLAN: IMPROVE WEBSITE & SOCIAL MEDIA ACCESSIBILITY & PRESENCE

Website Accessibility Compliance & Clean-Up - **COMPLETED**

New hosted solution: Apptegy - **COMPLETED**

Launch of District 96 Mobile App - **COMPLETED**

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THANKS!

Any questions?