



NAVARRO



INDEPENDENT SCHOOL DISTRICT

Network Update

Current State of Infrastructure

June 2024

Uninterruptible Power Supplies (UPS)

All non-operational UPS devices have been replaced during the 2024-2025 School Year.

July 2024

Access Points

217 wireless access points have been upgraded to WIFI 7 capable devices.

September 2024

Switches

All switches have been replaced with new hardware that will receive support through 2030 and beyond.

October 2024

Firewall and Core Switch

Our network infrastructure features redundant firewalls and core switches for continuous operation. The elimination of licensing requirements further strengthens stability by preventing renewal related outages.

March 2025

New High School

All of the network hardware has been ordered for the new HS.

Network Issues - Firewall

Firewall Crash

Firewall Replaced

Removed Zayo ISP Connection

Region 20 Escalation

February 25, 2025

- Firewall began crashing requiring reboots.
- Firewall was replaced with backup device.

March 6, 2025

- Firewall was replaced with a newer model separating the management server from the firewall hardware to reduce workload.
- Firewall continued to experience issues almost daily requiring reboots between 8am-Noon

April 1, 2025

- Issues subsided.
- Log files showed the Zayo connection was “flapping” with over 1000 daily log entries of the connection going up and down.

April 1, 2025 - April 8, 2025

- Region 20 response stated no issues detected.
- Escalated the ticket and continued to keep the Zayo connection out of the primary network. Zayo was plugged into a backup firewall for testing.
- Connection still showed high latency with only a single Chromebook streaming 4k video on the 10 Gbps connection as of April 11.

Network Resolutions

GVEC 5 Gbps Connection

- Connection remained stable and has removed the issue requiring daily firewall reboots.
- District was able to complete testing the first week without issues since removing the Zayo ISP connection.

Zayo

- Zayo resolved the tickets stating the problem was fixed, but stated they did have faulty network cards needing replacement.
- Zayo link was plugged back into the district network on April 14 at 1pm. No issues have been reported since then.
- We are reviewing Zayo service level agreement to pursue bill credits for the time we are unable to utilize the ISP connection.

The background features large, stylized letters 'N' and 'T' in a light purple color. Each letter has a thick, light yellow outline and a thin white inner border, giving them a 3D or layered appearance. The 'N' is on the left and the 'T' is on the right, both centered vertically.

Thank You