

# LPSD Technology Report

*November 2024 - Sam Rigby*

With our beginning-of-the-school-year tasks slowing down, the tech team has shifted our focus to proactive technology maintenance, BBRCTE projects, and the implementation of new resources.

## **Cybersecurity**

- We implemented several email protections, including [SPF, DKIM, and DMARC](#). These authentication mechanisms protect both senders and recipients from phishing attacks, spam, and other types of email fraud.
- We performed a comprehensive audit and reconfiguration of our school internet filters to ensure student safety and CIPA compliance.

**BBRCTE** - We have continued supporting the configuration and deployment of simulators, virtual reality headsets, and other technology funded by the three USDA grants awarded to BBRCTE. This has been a multi-year project that will continue into 2025 and beyond.

**Starlink** - We continue to see improvements in Starlink's performance district-wide.

Performance is measured in three areas: Uptime, Latency, and Bandwidth.

- Over half of the Starlink connections have maintained 100% uptime for the last 30 days.
- The longest outage in the last 30 days was 5m 55s
- The average latency has dropped from 60-70ms to 45-50ms
- The average download bandwidth on a single connection has increased from 200mbps to 280mbps
- The maximum recorded bandwidth on our dual Starlink installations has increased from 500mbps to 800mbps