# UCFSD Phase 2 - Network Upgrade

# Executive Summary

- Project simplifies network management, improves network speed and performance in all buildings, and improves security for staff, student, and guest mobile devices

- Cost is $100k, funded in the 2019-20 preliminary budget

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# Current State

- End of life wireless controllers at each elementary school building

- End of life router equipment at all buildings

- No authentication process for our guest user/devices

- A single firewall poses a single point of failure

- Weak WiFi access in specific areas of our elementary buildings

- Weak WiFi signal around perimeter of each school building

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# Future State

- All elementary school wireless access points will point to our two redundant wireless controllers at UHS

- Cisco network router upgrades at each building

- Second firewall to provide redundancy

- Mobile authentication and security system for staff, student, and guest mobile devices

- External access points installed for internet access at building outside perimeter

- Internal access points upgraded to remediate findings from our wireless assessment

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# Benefits

- **Improved Redundancy and Access**
  - Elementary building access points will point to two wireless controllers
  - All buildings will have outside perimeter access to extend the classroom and provide access for accountability systems
  - Second firewall will provide failover capabilities

- **Efficient Operations**
  - All wireless equipment will be the same vendor
  - Centralized management systems will be installed to monitor and manage the network

- **Better Network Performance**
  - Installing better technology in areas/schools to reduce oversaturation and dead zones
  - Support future endpoint technology growth and emerging technologies

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# Financials and Board Action

- Project will upgrade all routers in six buildings and consolidate wireless controllers at each elementary building

- Project will add additional firewall to provide redundancy

- Project will add outside access points at each building to provide WiFi signal

- Project will add additional software for authentication and security for mobile devices

- Total cost is ***$100,000.00*** added to the 2019-20 preliminary technology budget

## Board Action

- Seeking approval at the March 2019 board meeting to move forward with the commitment to purchase network equipment for Phase 2 of the network upgrade project

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# Timeline

- **March 11, 2019 - Board presentation**

- **March 18, 2019 - Board Approval**

- **April 2019 - June 2019 - Finish design and implementation plan**

- **July 2019 - Purchase equipment**

- **July 2019 - April 2020 - Install and configure network equipment**

- **May 2020 Close out Project and report to board**

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