

**Wireless Replacement Project
Project Authorization**

Recommendation

It is recommended that the Board of Governors authorize the President, or his designee, to award contracts for the upgrade of the campus wireless network. It is further recommended that the Board of Governors authorize \$4,090,000 for the purchase and installation of a new wireless solution and associated network upgrades. Funding for wireless replacement in Housing buildings will be provided by the FY18 Housing Operating Fund. The C&IT Network Plant Fund will pay for the remainder of the project.

Background and Project Description

Improving the wireless network will dramatically enhance user experience and customer service for our students, faculty, staff and visitors. State-of-the-art wireless service will help meet the University's strategic goals for student success, teaching excellence and research.

Over the next two years, WSU will deploy 4000+ wireless access points (APs) in 100+ University buildings. The installation will be a phased deployment starting with the buildings that have the highest wireless usage.

A key part of this project is to increase the number of APs to support growth in student, faculty, and staff devices and "Internet of Things" devices, such as door locks and building management systems in the new Residence Halls. The project will replace 3000+ existing APs and add 1,000+ new APs within high usage buildings, enhancing coverage and bandwidth where current student usage frequently exceeds existing capacity. 100 APs will be added for outdoor wireless coverage, supporting outdoor campus events. There will be seamless wireless roaming between outdoor and indoor locations.

The new wireless solution will also support location services which can be used to create interactive campus maps, customized messages, technology dense classrooms, etc.

All contracts for this project will be awarded in accordance with University policies and procedures.

Project Budget

Funding Sources	
Housing Maintenance Reserve	\$ 810,000
C&IT Network Plant Fund	\$ 3,280,000*
TOTAL Sources	\$ 4,090,000
Expenditures Plan	
Wireless APs and Cabling - Housing Buildings	\$ 810,000
Wireless APs and Cabling - Non-Housing Buildings	\$ 1,780,000
Wireless APs and Cabling - Outdoors	\$ 500,000
Infrastructure - Controllers and Software	\$ 350,000
Building Network Uplinks	\$ 50,000
Upgrade Core Network	\$ 250,000
Consulting and Training	\$ 175,000
Contingency	\$ 175,000
TOTAL Expenditures	\$ 4,090,000