Enterprise Information Technology Services

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Deployment Strategy and Procedures for 802.11 Wireless Local Area Networks (Student Technology Fee Funded)

Network Infrastructure and Services
Enterprise Information Technology Services
The University of Georgia

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The University of Georgia
PAWS
Personal Access Wireless/Walkup System

SUPPORTED BY THE UGA
STUDENT TECHNOLOGY FEE
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1. **OVERVIEW**
   It is EITS's intention to leverage Student Technology Fee (STF) funding to implement the centralized PAWS wireless network ubiquitously on campus, whether in instructional or non-instructional areas. The costs associated with adding non-instructional areas to the central system will be recovered by fees paid by departments.

2. **COSTS COVERED BY STF FUNDING**
   The following costs are funded by the Student Technology Fee for the deployment of wireless networks in student areas:
   2.1. Centralized equipment.
   2.2. Wireless access points and related equipment.
   2.3. Switches, patch panels, additional power, and other equipment in wiring closets as required.
   2.4. Wireless RF site survey costs.
   2.5. Installation costs.
   2.6. Project management for planning, installation, and implementation.
   2.7. Support staff for planning, installation, implementation, and ongoing administration and maintenance of the wireless network.

3. **ELIGIBILITY AND PRIORITIES FOR STF FUNDING**
   Student Technology Fee funding was set aside for the implementation of a campus-wide wireless network based on an overwhelming desire on the part of the student community. Students indicated that their highest priority was for wireless in classrooms; therefore, that was the initial focus of this project.
   3.1. Areas eligible for STF funded wireless networks include:
      3.1.1. Classrooms
      3.1.2. Teaching laboratories
      3.1.3. Tutoring areas
      3.1.4. Libraries (both the Main and Science Libraries, as well as departmental library areas)
      3.1.5. Lobbies and other areas where students gather
      3.1.6. Undergraduate and graduate student offices/carrels
      3.1.7. Residence halls
      3.1.8. Student break areas
      3.1.9. Outdoor greenspace areas
      3.1.10. Areas in non-classroom buildings in which students are likely to gather
      3.1.11. Dining halls
      3.1.12. Recreational facilities
   3.2. Areas not eligible for STF funding for wireless networks include:
      3.2.1. Academic offices
      3.2.2. Administrative offices
      3.2.3. Research laboratories

3.2.4. Non-instructional support areas, such as administrative conference rooms, faculty and staff break rooms, etc.

4. OPPORTUNITIES FOR NON-INSTRUCTIONAL AREAS

It is EITS policy that existing wireless networks in buildings identified for deployment of Student Technology Fee Funded wireless networks be converted to the centralized wireless network. EITS will work with departments to convert non-centralized network deployments to centralized (when possible) or assist in the design of a network which will integrate into the centralized network.

4.1. Coverage for areas without an existing wireless network.

4.1.1. EITS will work with departments desiring to add non-instructional areas during the deployment of the Student Technology Fee funded network in their building(s). If departments wish to have a wireless network installed in their administrative areas concurrent with the installation of the STF wireless network, EITS will collaborate with the department to determine a fair and equitable distribution of costs based on percentage instructional vs. non-instructional area and provide project management and execution of the entire wireless installation.

4.1.2. Departments will be responsible for all costs associated with installation in non-instructional areas.

4.1.3. For large non-instructional area deployments, an initial fee **may** be required to offset the expenses of the centralized controller equipment and software.

4.1.4. EITS will work closely with departments to ensure that the design encompasses all areas desired by the department.

4.1.5. Further information is contained in the document linked on the *PAWS Wireless Initiative web site* (http://net.uga.edu/wireless) under "Procedure for Deployment of Wireless Networks – Non-STF Funded."

4.2. Coverage for areas with existing non-centralized wireless network.

4.2.1. When possible, EITS will convert existing compatible access points (in general, Cisco access points with 802.11a, 802.11g, and 802.11n radios) to utilize the centralized wireless network.

4.2.2. If the existing access points are not compatible with the centralized wireless networks EITS will recommend the appropriate equipment for the department to purchase.

4.2.3. Departments will be responsible for all costs associated with installation in non-instructional areas.

4.2.4. For large non-instructional area deployments, an initial fee may be required to offset the expenses of the centralized controller equipment and software.

4.2.5. EITS will work closely with departments to ensure that the design encompasses all areas desired by the department.

4.2.6. Further information is contained in the document linked on the PAWS Wireless Initiative web site (http://net.uga.edu/wireless) under "Procedure for Deployment of Wireless Networks – Non-STF Funded."

4.2.7.

4.3. Requirements for joint deployments.

4.3.1.   In order to ensure a seamless wireless environment for students, faculty and staff, EITS requires that all departments in buildings receiving STF wireless networks convert or replace all existing access points so that they will be part of the centralized system. In general, Cisco access points with 802.11a, 802.11g, and 802.11n radios are compatible.

4.3.2.   EITS will not deploy wireless networks funded by Student Technology Fee funds in buildings until it has been agreed that all existing access points (if any) will be converted or replaced by access points compatible with the central system.

5. RESPONSIBILITIES IN JOINT DEPLOYMENTS

A delineation of the departmental and EITS responsibilities in non-STF funded wireless deployments may be found in the document linked on the PAWS Wireless Initiative web site (http://net.uga.edu/wireless) under "Procedure for Deployment of Wireless Networks – Non-STF Funded."