Case Study
Infrastructure Assessment

Client

Higher Education Organization

The client is a higher education organization that serves thousands of students, faculty members, and researchers through a network of facilities. The client is navigating a fast-changing educational environment and must support their sophisticated multimedia-based educational content and multiple student, faculty, and guest smart devices via a network that provides 24x7x365 connectivity.

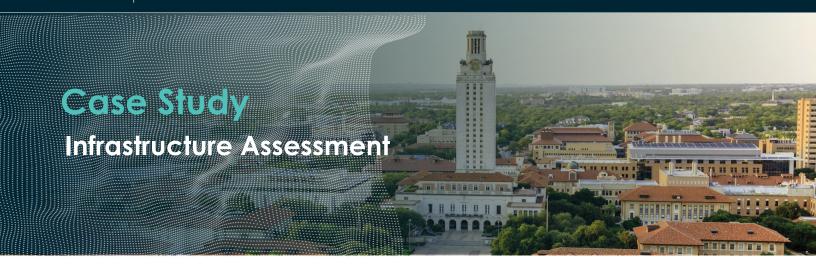| Challenge	CBTS Solution	Results
• The client required a network to support their students, who bring multiple connected devices to campus • The client's aging network and wireless infrastructure failed to provide the required connectivity to students and faculty, plus they didn't allow network access for guests • Client lacked bandwidth to maintain, manage, and upgrade their network	• CBTS started with a deep dive into the client's existing infrastructure to understand their needs • CBTS recommended and delivered necessary updates, installation, configuration of switches, APs, and security software	• CBTS provided best-in-class network access, speeds, and connectivity for an exceptional experience • A guest network that allows secure connectivity • A fully managed solution that frees the IT organization to focus on delivering strategic business outcomes

Business Challenge

The client required a network that will support their students, who on average bring seven connected devices to campus. The client had an aging network and wireless infrastructure that failed to provide the required connectivity, leading to complaints from students and faculty who rely on the network. Additionally, the client's network did not support guest access, impacting the ability to provide a positive customer experience for guests and visitors. Finally, the client's IT organization lacked the bandwidth to maintain, manage, and upgrade their network.

Infrastructure Assessment -Infrastructure

Infrastructure, covered.

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CBTS Solution

The client engaged the CBTS Infrastructure practice to help deliver a solution that would provide the necessary connectivity, security, and flexibility to support their students, faculty members, and visitors. CBTS started with a deep dive into the client's existing infrastructure, and worked closely with the client's associate CIO and IT employees to fully understand its needs.

CBTS next recommended and delivered:

- Radio and network surveys of the client's residence halls.

- Updates and re-work of old network closets.

- Installation and setup of new Aruba switches and APs in the residence halls.

- Configuration of ClearPass network access security software so that students can securely connect multiple devices to the new network.

Results

The CBTS Infrastructure practice's solution is delivering the following results to this client:

- Network access, speeds, and connectivity that are best-in-class and providing an exceptional student experience.

- Guest network that allows for secure connectivity to the university network.

- A fully managed solution, which allows the client's IT organization to focus on strategic initiatives that deliver business outcomes.