

UAEU Infrastructure upgrade – Phase 4

UAEU upgraded its data center and crescent building in the first two phases of infrastructure upgrade and later upgrade highly populated C-series Building continuing UAE University's promise to deliver ubiquitous, high bandwidth connectivity throughout the campus. As per university's plan to continue with the upgrades in phases keeping in view the advancement in networking technology and the introduction of features such as internet of things (IoT), 4th generation access protocols, cloud applications as well as bandwidth hungry gaming application such as Poke'mon go, all remaining buildings comprising E-series and F-series, G-series and H-series were upgraded constituting phase-4 of the upgrade project. This upgrade enables the infrastructure to meet the exorbitant bandwidth demands and to satisfy the requirement for ever-present internet connectivity providing a switching backhaul of 40 Gbps, highly resilient, non-blocking state-of-the-art infrastructure. The upshot of this change would be a higher bandwidth for the end user by reducing the bandwidth contention ratio and oversubscription on the uplink.



Figure 1: Cisco Catalyst 9500 series

For the campus, Catalyst 9500 40 Gbps switch form the distribution layer while the Multi-Gigabit Catalyst-3850 constitutes the access layer. The Cisco Catalyst 9500 Series is the first 100/40-Gbps switch purpose-built for the enterprise campus. It was recently recognized as CRN's 2017 Overall Network Product of the Year. Designed for security, the Internet of Things (IoT), and the cloud, Catalyst 9500 fixed-core switches are high-density building blocks for a next-generation, intent-based network.