



CRICOS Provider No: 02529F

## Union Institute of Language (UIL), QLD

# Delivering a Powerful Network Infrastructure with Wi-Fi 6 Wireless Connectivity via D-Link's Nuclias Cloud Solution



*"Since A & S Tech installed the D-Link Nuclias Cloud solution in our Springfield campus, students and teachers can seamlessly utilise the Internet in all areas of the building without dropouts or interruptions. The Internet is also so much faster now since the solution has gone in."*

— John Yamasaki, Operations Manager, Union Institute of Language



Contact us for more information on D-Link Network Solutions for your business.

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In Partnership with



### Background

Established in 2003, the Union Institute of Language (UIL) is committed to providing quality short and long-term English courses to thousands of students of all ages from around the world. UIL professionally manages and coordinates the process of assisting students with planning an academic pathway from English studies to exam preparation, along with specially designed programs to help students develop the skills for High School, Vocational College and University Courses.

UIL uses multiple devices including iPads, laptops and the students' own equipment of choice in their classes on a daily basis. Due to a sector slow down as a result of COVID-19, UIL had held off a Wi-Fi infrastructure upgrade during the pandemic.

As students returned once international borders reopened, this existing infrastructure at UIL was upgraded and brought up to the latest technology Wi-Fi standards of today. UIL now has the ability to be managed in the Cloud and UIL is committed to taking its Internet and wireless capabilities to the next level.

### Overview

The project involved installing a D-Link Nuclias Cloud 24-Port PoE Switch for all of the phones and Nuclias Cloud Wireless Access Points, alongside additional D-Link Nuclias Cloud 52-Port Data Switch. Seven Nuclias Cloud Wi-Fi 6 Wireless Access Points were also installed and UIL's Internet connection was upgraded to 500/500Mbps.

### The Challenges

There were issues in being able to separate the students' data from the teachers' data via the use of VLANs. Thus, emphasis was placed on keeping the students safe by putting Internet browsing restrictions in place.



### Key Solution Factors:

In short, the Solution comprised of D-Link Nuclias Cloud Wi-Fi 6 Access Points, D-Link Nuclias Cloud Switches and direct access cables.

The first step involved organising a new 500/500Mb Fibre service and D-Link completing a Wi-Fi survey to establish the best placement for the Access Points. Then the data cabling to the APs were run and the APs were installed, using Power over Ethernet (PoE) from the Nuclias Cloud PoE Switch. The next step involved re-patching the entire comms cabinet and putting in the two new D-Link Switches. Then, finally, the policies were set and the student traffic was able to be separated from the business traffic by utilising D-Link's Nuclias Cloud Administration Portal, and a new firewall.




### The Outcome

UIL now have full building Wi-Fi coverage without dropouts and with download and upload speeds regularly in excess of 200Mbps. As previous speeds were approximately 3Mbps up and down, this new solution is 66x faster. In addition, students can browse the web in a safe and secure manner.

With the installation and implementation of the new Wi-Fi and network system, the students and educators at UIL can utilise this technology far more effectively and efficiently.

### Products integrated in this solution include:



	<p><b>D-Link DBA-X2830P</b> Nuclias Cloud-Managed Wi-Fi 6 AX3600 4x4 Dual Band PoE Access Point</p>
	<p><b>D-Link DBS-2000-28MP</b> Nuclias Cloud-Managed 28-Port Gigabit 370W PoE switch with 28 RJ45 (24 PoE) and 4 Combo SFP Ports</p>
	<p><b>D-Link DBS-2000-52</b> Nuclias Cloud-Managed 52-Port Gigabit switch with 52 RJ45 and 4 Combo SFP ports</p>