



## St Andrew's Hospital Toowoomba

A simple and scalable network solution providing fast and reliable networking services to medical professionals and visiting clients 24/7



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— St Andrew's Hospital Toowoomba



Contact us for more information on Network Solutions for your Business.

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### Background

**Organisation:** St Andrew's Toowoomba Hospital is a 137-bed, acute care private hospital situated on the northwestern side of Toowoomba. Established in 1966, the hospital is a not-for-profit private hospital and a registered charity. St Andrew's Toowoomba is a teaching hospital for the University of Queensland and employs approximately 500 staff with over 350 credentialed Visiting Medical Officers and Allied Health Professionals providing services to 24,500 patients annually.

**Challenge:** St Andrew's Toowoomba Hospital required a significant hardware upgrade to maintain their existing networks as well as to ensure efficient and reliable network scalability for their constantly expanding client base and geographical area.

### Overview

D-Link hardware was chosen to replace the existing network infrastructure in 2011 and a continuous rolling upgrade has been progressing ever since. St Andrew's has an excellent working relationship with D-Link whose high level of support means they are available to provide the very best, consistent advice and assistance in order to continue developing and maintaining the best infrastructure possible for the hospital's staff and clients.

### The Solution

St Andrew's Toowoomba Hospital uses a wide range of D-Link products to provide networking services to staff and clients 24 hours a day, 7 days a week. The critical nature of the workplace requires a fast and reliable wired network. This is handled by a fibre backbone across the hospital site using select D-Link managed switches. More than 25 of these switches are used to provide wired networking across ten acres (40,000 square meters) of hospital grounds. The network also hosts multiple VLANs to provide isolated network access to professional medical tenants and visiting clients.

St Andrew's Toowoomba Hospital also utilises multiple D-Link DWS-4026s to manage up to 80 wireless access points, which are predominantly DWL-8600s and DWL-6600s. The wireless controllers ensure operational redundancy as well as enabling simple management for private and guest networks.

### The Outcome

D-Link has helped make a very complicated network easy to manage and expand. St Andrew's Toowoomba Hospital's regular expansions always require new networking hardware and thanks to D-Link adding switches and APs has now become a routine and seamless process.

### The Next Project

St Andrew's Toowoomba Hospital is currently implementing firewall failover with their D-Link DFL-1660s. Additionally, the hospital's analogue telephony system is being replaced with VOIP, with the majority of wired devices running on POE via managed switches.

### Products integrated in this solution include:

	<b>2 x D-Link DFL-1660</b> Medium Enterprise UTM VPN Firewalls
	<b>1 x D-Link DXS-3600-16S</b> Top-of-Rack 10 Gigabit Layer 3 Managed Switch
	<b>11 x D-Link DGS-1210 Series</b> Smart Managed Switches
	<b>10 x D-Link DGS-3120 Series</b> xStack Layer 2 Stackable Managed Switches
	<b>8 x D-Link DGS-3420-28PC</b> 28-Port Gigabit xStack Layer 2+ Managed PoE Stackable Switches
	<b>2 x D-Link DGS-3620-28PC</b> xStack Layer 3 Stackable Managed Switches
	<b>4 x D-Link DWS-4026</b> 24-Port Gigabit PoE Unified Wireless Controllers
	<b>24 x D-Link DWL-6600AP</b> Unified Wireless N600 Dual Band Concurrent PoE Access Points
	<b>3 x D-Link DWL-8610AP</b> Unified Wireless AC Dual Band Concurrent PoE Access Points
	<b>43 x D-Link DWL-8600AP</b> Unified Wireless N600 Dual Band Concurrent Access Points