



Macarthur Disability Services, NSW

Smart Managed Switch Solution with 10G SFP+ Stacking, Delivering 10G Connectivity to Core Networks and Servers.



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— Ryan Spillane, Managing Director, Correct Solutions

Background

Back in 1982, Macarthur Disability Services (MDS) envisioned a world where people with a disability participated fully in society and were valued and empowered to realise their potential. This vision that Macarthur Disability Services has continued to inspire their aims and goals and has enabled MDS to become a premier non-profit community organisation in the Macarthur region. With operations across South West Sydney and the Southern Highlands, MDS continues to lead the way in their person-centred approaches to service delivery. MDS continues to provide a range of services, activities and connections to a wide demographic of people, including people with a disability, people with a mental illness, the aged, families and carers.

Overview

As MDS grew from 60 to over 130 people, their old network technology and its poor speed slowed users down when they would open files and emails from the servers. They would also experience sluggish performance from their core business application, Procura, as their desktops only talked at 100 Mbps speeds rather than 1000 Mbps speeds back to their servers. This led to poor network capacity, bottlenecks, and a system that was not able to fulfill MDS' growing needs.

The Challenges

1. To future-proof the environment for as long as possible.
2. Adding Power over Ethernet technology thereby reducing costs when moving to a replacement phone system.
3. Providing higher speeds to the desktops greater than 100 Mbps.

D-Link Solution & Implementation

Correct Solutions has assisted MDS for over 15 years and recommended a D-Link Network Solution for their needs. With both Correct Solutions and D-Link supporting the non-profit sector, it was a logical choice to use D-Link Switching products at the heart of MDS' network. The Correct Solutions project team pre-staged all the Switches in their office prior to install.

On the day of install, there was a total of 2.5 hours downtime for the client with most of that occurring before their normal daily start time to minimise any impact to their business. An extra fibre run was also installed prior to the new Switches being installed which allowed all of the Switches to be put into a large stack which will, in turn, make future work that's required quicker and more efficient.

The Outcome

"Having a single stack for simplified management (VLANs etc) was significantly better than the many Switches this solution replaced. Why? Well, historically, when we wanted to make a change on the network, we would need to log into five Switches to make the changes as they were individual Switches and could not be stacked. The new Switches are stacked and so act like one big Switch, which means any changes we make now require us to only log into one place. It also means any firmware updates needed can be applied to the stack and they will all upgrade simultaneously, rather than needing to update firmware individually on each Switch. As a result MDS now have Gigabit to the desktops, a 10 Gig backbone, 10 Gig connections to their servers and are POE ready for a replacement phone system."

Ryan Spillane, Managing Director, Correct Solutions

Products integrated in this solution include:

	7 x D-Link DGS-1510-28P 28-Port Gigabit SmartPro PoE Switches with 24 UTP, 2 SFP and 2 SFP+ 10G Ports
	2 x D-Link DEM-311GT 1000Base-SX SFP Transceivers (Multimode 850nm) - 550m
	7 x D-Link DEM-431XT 10GBase-SR SFP+ Transceivers (Multimode 850nm) - 300m
	2 x D-Link DEM-CB300S SFP+ to SFP+ Direct Attach Cables (3 Metres)
	1 x D-Link DEM-CB100S SFP+ to SFP+ Direct Attach Cable (1 Metre)

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

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