

# **BIOS IT deploy a fully supported Open Networking solution to deliver increased efficiency, flexibility, scalability and performance at UNSW Sydney**

Submitted by: BIOS IT

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SYDNEY, AUSTRALIA, Dec. 13th — BIOS IT (<http://www.bios-it.com>), a global IT consultancy and solution provider, in partnership with Mellanox Technologies (<http://www.mellanox.com>) and Cumulus Networks (<https://cumulusnetworks.com/>), delivered a state-of-the-art 100GbE network based on the principals of web-scale Open Networking to the University of New South Wales (UNSW) Sydney (<https://www.unsw.edu.au/>), saving 65% in costs and 90% in engineering hours.

UNSW Sydney required the design, implementation and support of a new data centre networking fabric to support the migration of its corporate infrastructure from an on-campus data centre to a purpose-built off-premise facility.

Thanks to the power of automation through Cumulus OS, the design, configuration and deployment of both production and management networks was completed by one engineer in 18 days - a 90% reduction compared to the competition. This proved vitally important for UNSW Sydney as extreme time constraints were placed on the project with a hard move-out date from the on-campus data centre being enforced upon the IT team.

Best-of-breed networking hardware from Mellanox Technologies enabled UNSW to build a cutting-edge networking fabric which not only responded to today's requirements in the most efficient manner but also gave them peace of mind that the fabric will scale to accommodate tomorrow's needs.

The modernization of UNSW Sydney's corporate datacentre provided the IT team with agility, cost reduction and mitigated risk. The University saved 65% in CAPEX, and a further 90% in Professional Services – totalling in excess of AU\$3million. The advanced network design and high-performance hardware mean that UNSW Sydney's investment is future-proofed, the network effectively continuing to support the rigorous demands of a changing business environment.

“Deploying Open Networking in our data centre with BIOS IT was a smooth and seamless operation – far less complex than our initial expectations. BIOS IT helped us create a flexible, scalable platform to support the ever-growing demands of modern IT applications and increasing user-base. It has given us the freedom to focus on innovating for the future of UNSW “ comments Mark Griffith, Director of Customer Service Delivery and Director of Research IT at UNSW.

By embracing disruptive technologies such as web-scale Open Networking, the university now benefits from improved visibility and troubleshooting, reduced power, reduced cost (CAPEX and OPEX) and increased human resource efficiency.

Such has been the success of the first stages of the project that UNSW Sydney is now pushing forward to increased levels of automation throughout the network and is looking to implement similar technologies into other areas of their infrastructure.

Read the Case Study in full here (<https://bios-it.co.uk/news/2018/12/13/unsw-sydney.aspx>). Contact our

specialised team at [sales@bios-it.com](mailto:sales@bios-it.com) to discuss your Open Networking requirements.

#### About BIOS IT

BIOS IT is a global IT consultancy and solution provider, focused on delivering the latest high-performance, power-efficient IT solutions. From liquid-cooled servers to fully bespoke solutions tailored to meet your exact requirements, BIOS IT provides the right solution for you. Working with industry leading ecosystem partners in both hardware and software vendors from across the industry, BIOS IT is positioned to design and create the most innovative solutions optimized for speed and efficiency that provides you with that imperative edge over the competition.

#### About the UNSW Sydney

Established in 1949 as a founding member of Australia's leading 'Group of Eight' universities, with a unique focus on the scientific, technological and professional disciplines, The UNSW Sydney is a leading Australian university committed to making a difference through pioneering research and preparing the next generation of talented global citizens for career success. Considered a powerhouse of cutting-edge research and teaching in the Asia-Pacific, UNSW Sydney is Ranked 45th in the 2018 QS World University rankings and renowned as one of Australia's Global Universities.