

SYDNEY Q1 SEMINAR

THURSDAY 28 FEBRUARY 2019



INVITATION
TO BICSI MEMBERS & GUESTS

WI-FI TROUBLESHOOTING

MATT FOSTER, CHANNEL ACCOUNT MANAGER AUS/NZ - NETSCOUT

- UNDERSTANDING BANDWIDTH DEMAND
- SIGNAL COVERAGE VS THROUGHPUT
- VIDEO STREAMING OVER WI-FI
- KEY TESTS AND MEASUREMENTS
- TOP TIPS FOR TROUBLESHOOTING MOST KNOWN WIFI ISSUES

THE NEXT FRONTIER IN SIGNAL MULTIPLEXING – ENABLING 40G OVER 1 KM OF 62.5 AND 50 MICRON MULTIMODE FIBRE.

DR MICHAEL WITHFORD - MODULAR PHOTONICS

OPTICAL FIBRE HAS 5 BASIC PROPERTIES THAT CAN BE EXPLOITED FOR SIGNAL MODULATION AND MULTIPLEXING;

- TIME
- WAVELENGTH
- QUADRATURE (OR PHASE)
- POLARISATION
- SPACE.

TELECOMMUNICATION NETWORKS STARTED WITH TIME DIVISION MULTIPLEXING IN THE 1970'S. SINCE THEN THE INDUSTRY HAS TRANSITIONED TO MULTIPLEXING FORMATS THAT UTILISE WAVELENGTH, QUADRATURE AND POLARISATION. THIS EVOLUTION HAS BEEN NECESSARY IN ORDER TO STAY AHEAD OF THE EXPONENTIAL GROWTH IN DATA DEMAND. THE INDUSTRY IS NOW DEVELOPING FUTURE OPTICAL FIBRE NETWORK ARCHITECTURES THAT EXPLOIT THE 5TH FRONTIER: SPACE. NEW SPACE DIVISION MULTIPLEXING (SDM) TECHNOLOGY IS NOW COMMERCIALY AVAILABLE THAT CAN CONTROL INDIVIDUAL MODES IN MULTIMODE FIBRE (MMF), IN A SIMILAR FASHION TO HOW WAVELENGTH DIVISION MULTIPLEXING (WDM) CONTROLS NARROW WAVELENGTH CHANNELS. IN THIS SEMINAR I WILL EXPLAIN SDM TECHNOLOGY AND PROVIDE A GLIMPSE INTO WHAT LONG-HAUL FIBRE NETWORKS WILL LOOK LIKE IN 5 TO 10 YEARS TIME. I WILL ALSO SHOW HOW THAT SAME TECHNOLOGY IS UNLOCKING DATA BOTTLENECKS IN LEGACY MMF NETWORKS, MAKING 40 G OVER KILOMETRE LENGTHS POSSIBLE AND IN MANY CASES REPLACING THE NEED TO RECABLE TO SMF.

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PRESENTATION TOPICS

7.30AM - REGISTRATION AND REFRESHMENTS

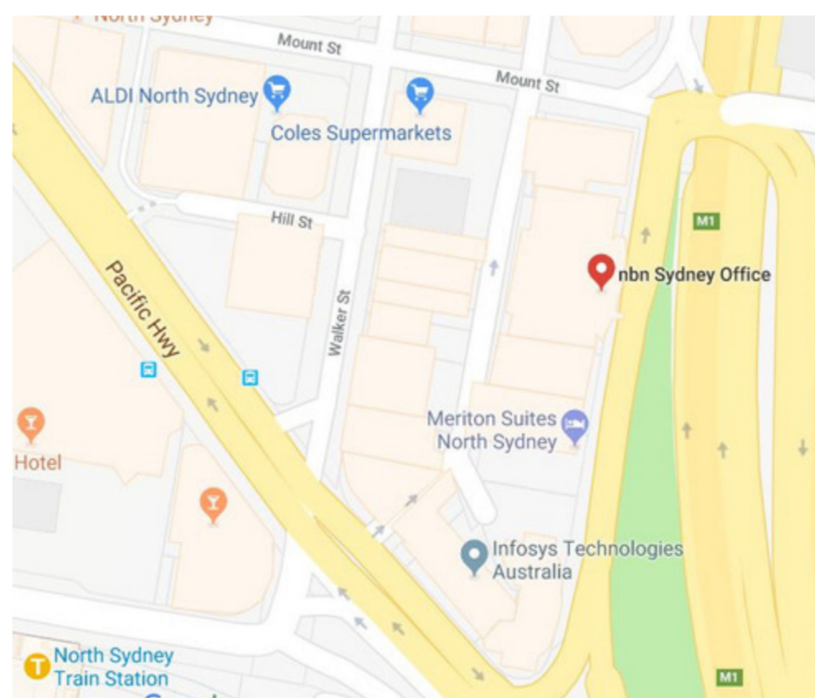
8.00AM - WELCOME & BICSI DISTRICT UPDATE

8.15AM - WI-FI TROUBLE SHOOTING

9.00AM - THE NEXT FRONTIER IN SIGNAL MULTIPLEXING - ENABLING 40G OVER 1KM OF 62.5 AND 50 MICRON MULTIMODE FIBRE.

10.00AM - CLOSE & NETWORKING

LOCATION: NBN DISCOVERY CENTRE



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