

## Title

**The Network is dead, long live the network**

## Speaker

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## Abstract

Enterprise networking has undergone significant transformations, evolving from 10Base5 Ethernet to multi-hundred Gigabit connections, and from 2Mbps wireless to Wi-Fi 7. Despite recurring predictions that innovation in networking has reached its peak, the field continues to evolve, driven by emerging technologies and increasing demands. This session will explore the ongoing evolution of enterprise networks, focusing on the latest advancements and future directions. We will examine how AI is revolutionizing control planes, enabling predictive networking technologies that enhance performance and reliability. The role of Ethernet is also evolving to meet the increasing demands of backend AI networks, as evidenced by initiatives like the Ultra Ethernet Consortium. Additionally, we will delve into the transformative potential of quantum networks. These networks enable quantum communication by allowing the exchange of quantum bits (qubits) through the distribution of entanglement between nodes, facilitating qubit exchange via quantum teleportation. By examining the past, present, and future of enterprise networking, we aim to inspire new research directions and technological advancements in this ever-evolving field.

## Biography



Adam Radford is a Distinguished Solutions Engineer based in Sydney, Australia. His background is software and automation, having spent 10 years building and automating campus networks. He then joined Cisco and has focused on a variety of technologies including voice, wireless and data center. In recent times his focus has been Campus Networks, specifically automation, software-defined-X and programmability. In his current role, Adam leads the Campus Network technology strategy for APJC. Adam has a first class honors degree in Science, majoring in Computer Science from the University of New South Wales (UNSW).