



AGILE CONNECTIVITY FOR CONSTRUCTION MULTI-NATIONAL AT SITES ACROSS AUSTRALIA

OUTCOME

Connectivity for site offices, WiFi access for field force workers, Day 1 and temporary networks - 5G enables all these to be spun up in days and at a fraction of the cost of wired network infrastructure.

Reliable internet accessibility protects workplace safety and productivity, and is cost effective.

Western Sydney Airport

Day 1 Connectivity | Primary | Failover

The construction of the new Western Sydney Airport presented challenges for construction companies with the greenfield site at Badgery's Creek on the Sydney fringe having no fixed network infrastructure.

MobileCorp deployed a Cradlepoint W2005 5G wideband adaptor with external directional Panorama 4x4 MiMo 4G/5G antenna. The device was mounted on the

The client is one of Australia's premier construction companies with a global presence shaping skylines and delivering iconic projects around the world.

Cradlepoint Edge Routers, Telstra 5G and the Telstra Enterprise Wireless solution provides a viable alternative to fixed line infrastructure for a range of use cases.

Sites: 37

roofline of a demountable site office. By accessing a Telstra tower, the connection is achieving 5G speeds of 292GB down and 45GB upload.

This link is utilised by construction management across a number of demountables and by a Health Clinic.

When a Terminal building was constructed between the Cradlepoint device and the Telstra tower, the agility of the solution meant that MobileCorp was able to reposition the adapter to regain optimal signal strength.

Hospital Multi-Storey Carpark, Brisbane Qld

Day 1 Connectivity | Primary

For construction businesses, a common hurdle is having to spin up instant, stable connectivity at job sites where wired infrastructure is unavailable.

Although this new multi-storey carpark was being built adjacent to an existing hospital campus, the wired infrastructure did not extend to the greenfield site.

The timeframe and cost of deploying NBN was prohibitive. Instead, a wireless 5G network solution provided agility and secure connectivity.

A Cradlepoint W2005 Wideband Adapter with Panorama 4x4 Mimo antenna was deployed to the roofline of a demountable to provide a primary internet link to the site office and WiFi for the workforce.



Health Campus, Perth WA

Business Continuity | Failover

For critical communications, a 5G enterprise wireless network can protect business continuity through link diversity.

Rather than a second fixed link which will often be deployed in the same physical path as the primary link, a wireless connection provides greater resilience.

The Cradlepoint W2005 external wideband adaptor with Panorama 4x4 Mimo antenna handles traffic prioritisation, managing bandwidth spikes, and automatically failing over and failing back when there are outages or congestion on the primary fixed link.

Throughout construction, the existing hospital remained fully operational while the

client built a new mental health facility, a new five level public ward block, multi-storey parking facilities, and delivered new operating theatres and a new cardiac catheter laboratory.

The Cradlepoint 5G link provided next level intelligent networking.





Data Centre, Sydney NSW

Day 1 Connectivity | Primary

This site was a new high-rise, hyperscale data centre located on Sydney's lower North Shore, featuring more than 26,000m² of data halls and ancillary infrastructure across nine levels, including more than 20,000m² of critical IT space. During construction the client utilised a Telstra 5G enterprise wireless solution powered by Cradlepoint and deployed by MobileCorp.

Highrise Office, Melbourne VIC

Agile 5G Connectivity | Primary

Even in densely populated urban areas where fibre is easily accessible, utilising a 5G enterprise wireless link can be a faster, more cost-effective, and more flexible option for construction sites.

Telstra 5G with Cradlepoint's 5G-native wideband adapter is now the preferred networking solution at numerous sites.

Business Case Drivers for 5G in Construction

Day 1 Connectivity



Reliable Collaboration



Workplace Safety



Site Surveillance



Realtime Data Transfer



IOT Sensors





Global leaders in 5G-native wireless edge hardware




**W2005 Series
5G Wideband
Adapter**

Outdoor 5G adapter designed for high-performance branch applications



**W1850 Series
5G Wideband
Adapter**

Indoor, dual-connectivity 5G/LTE adapter designed for fixed locations



**E300 Series
Enterprise
Router**

5G-ready router in a portable, compact form factor



**R1900 Series
5G
Ruggedized
Router**

High-performance 5G router for in-vehicle network connectivity

 **MOBILECORP** Leading Telstra 5G Cradlepoint partner 

MobileCorp is Australia's leading Cradlepoint partner. We are the most certified Australian MSP and the first Australian company to obtain the global '5G for Enterprise Branch' specialisation. We deploy Cradlepoint 4G and 5G networks for construction companies nationwide.

MobileCorp is a foundational Telstra Enterprise and Business Partner. Our Platinum Partner status means Telstra trusts us to provide operational and strategic support to its largest enterprise customers. We have been doing so for more than 30 years.

