



DATA & COMMUNICATIONS

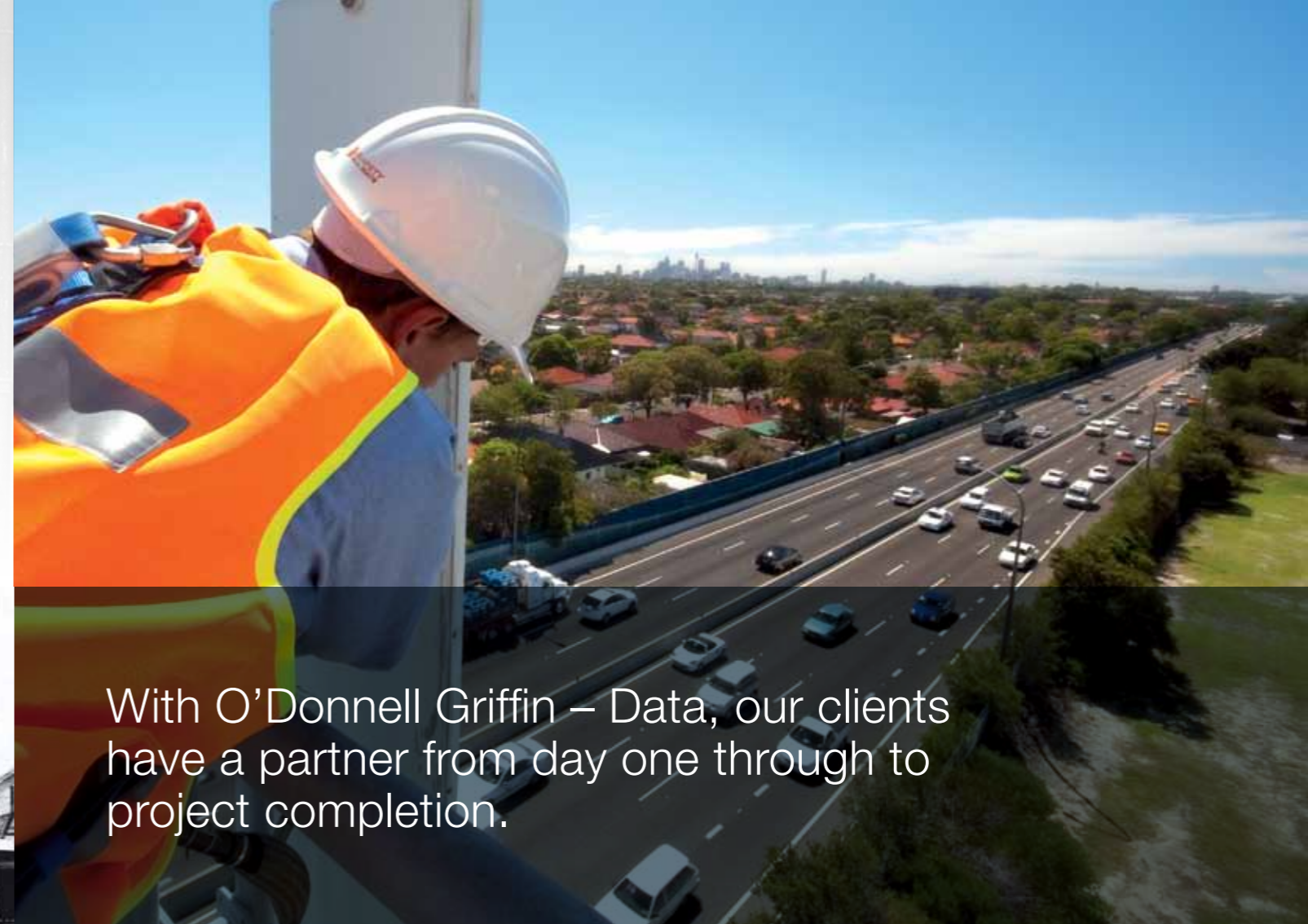
DATA
ELECTRICAL &
COMMUNICATIONS
ENGINEERING

 **O'DONNELLGRIFFIN**
EXPERTISE • COMMITMENT • RESULTS

NORFOLK 
INTEGRATED ENGINEERING



For over 100 years, O'Donnell Griffin has been providing customers with technical expertise, innovation, and flexibility in electrical & communications design, installation and maintenance packages.



With O'Donnell Griffin – Data, our clients have a partner from day one through to project completion.



The early history of an industry leader

Right from our early beginnings in 1906 when Frederick Tertius Squire O'Donnell and Thomas Leslie Griffin first founded the company in Sydney, through to the current day, O'Donnell Griffin has played an integral role in the provision of electrical and communications engineering services for Australia and New Zealand's developing infrastructure and industrial sectors.

Although street lighting was a comparatively new phenomenon in the early 1900's, as was the use of electricity as a means of powering and driving machinery, O'Donnell Griffin quickly forged a reputation for tackling difficult and challenging jobs through expert installation of dynamos and generators.

During the mid 1900's, O'Donnell Griffin played an active role in providing innovative electrical services to defence operations as well as the mining and resources sector. This involvement developed the company's expertise and positioned O'Donnell Griffin for future growth and national expansion.

Today, O'Donnell Griffin is a leading provider of electrical and communications engineering solutions, and has an enviable presence across Australia, New Zealand and Hong Kong.

Forging a new frontier in Data & Telecommunications

O'Donnell Griffin – Data provides design, integration and installation of communication network solutions across Australia and New Zealand.

Our services date back to 1988, when the business, then known as Diverse Data Communications, was founded in Canberra. Since then, we have been providing customers with communication network solutions that are cost effective, flexible, and designed to accommodate change and expansion for future technologies. The business has continued to evolve over the years, and has since been renamed O'Donnell Griffin – Data, to further collaborate with its sister company, that has operated in Australia for over 100 years.

The O'Donnell Griffin – Data team

With a skilled workforce of over 120 engineers, electricians, project managers, and technicians, O'Donnell Griffin – Data has the capability to mobilise resources to ensure large scale projects are completed on-time and on-budget.

To meet our customer's demands for high levels of technical skills, innovative thinking, and an ability to apply new technologies successfully, O'Donnell Griffin – Data provides ongoing employee training for the continual development of its capabilities. Our technical resources include licensed and skilled:

- Engineers
- ACMA registered technicians
- Austel licensed technicians
- Licensed plant and machinery operators
- Vendor certified technicians
- Certified jointers and technicians
- Licenced electricians

Our approach to partnering with our customers

With O'Donnell Griffin – Data, our clients have a partner from day one through to project completion. Open communication and mutual cooperation are the cornerstones of our approach to stimulate a strong and focused outcome oriented client relationship.

All this is delivered through a 'local' team, wherever your project is located – further supported by a comprehensive nationwide team and operational infrastructure which affords full 24/7 after-sales and emergency support around Australasia.

We are comfortable with a range of project delivery methods, from the more traditional design & construct contracting model, through to alliance partnerships, joint ventures or a multiservice solution. Integrated risk management, detailed project execution plans, cohabitative design, joint workshopping and national resourcing are just a few ways in which we foster success, with a view to establishing long term, mutually rewarding relationships with our clients. We also provide comprehensive pre-contract support, helping our clients scope, design, cost and plan their projects, as well as post contract review to ensure all potential energy and cost efficiencies have been optimised.



Design, integration and installation of Data & Communication network solutions.

Data & Telecommunications

Since 1988, O'Donnell Griffin – Data (formerly Diverse Data) has been providing customers with communications network solutions that are cost effective, flexible and designed to accommodate change and expansion for future technologies. Our strategic partnerships with leading industry product and technology providers ensure that we bring together innovative solutions for our customers. O'Donnell Griffin – Data, a government and multi-vendor endorsed supplier, is Australasia's partner of choice in both commercial and industrial markets.

Key areas of expertise include:

- Structured communications cable systems
- Telecommunications infrastructure
- Security systems (IP Based)
- Switching, routing & VOIP
- Wireless networking
- Intelligent building infrastructure
- Ground Penetrating Radar (GPR)
- Fibre optic networks

To meet the needs of our clients we:

- **deliver innovation**, focusing on successful outcomes and continuous improvement.
- **integrate** complimentary technical solutions to deliver communications objectives.
- **mobilise teams**, to regional and remote locations throughout Australia.

Our comprehensive range of design, integration and installation solutions

Telecommunications

- Fibre and copper cabling
- Voice and data (LAN)
- WLAN

Data Centres

- Racks and cabinets
- Electrical services and cabling
- Earthing, surge protection, UPS, and standby power generation supplies

Civil Works

- Trenching and boring
- Pit and pipe
- Blown fibre systems

Cabling Systems

- Cable hauling
- Aerial and underground
- Fusion splicing and OTDR testing

Microwave and Radio

- Broadband installations
- Transceivers
- GSM / CDMA site build
- Wireless local loop

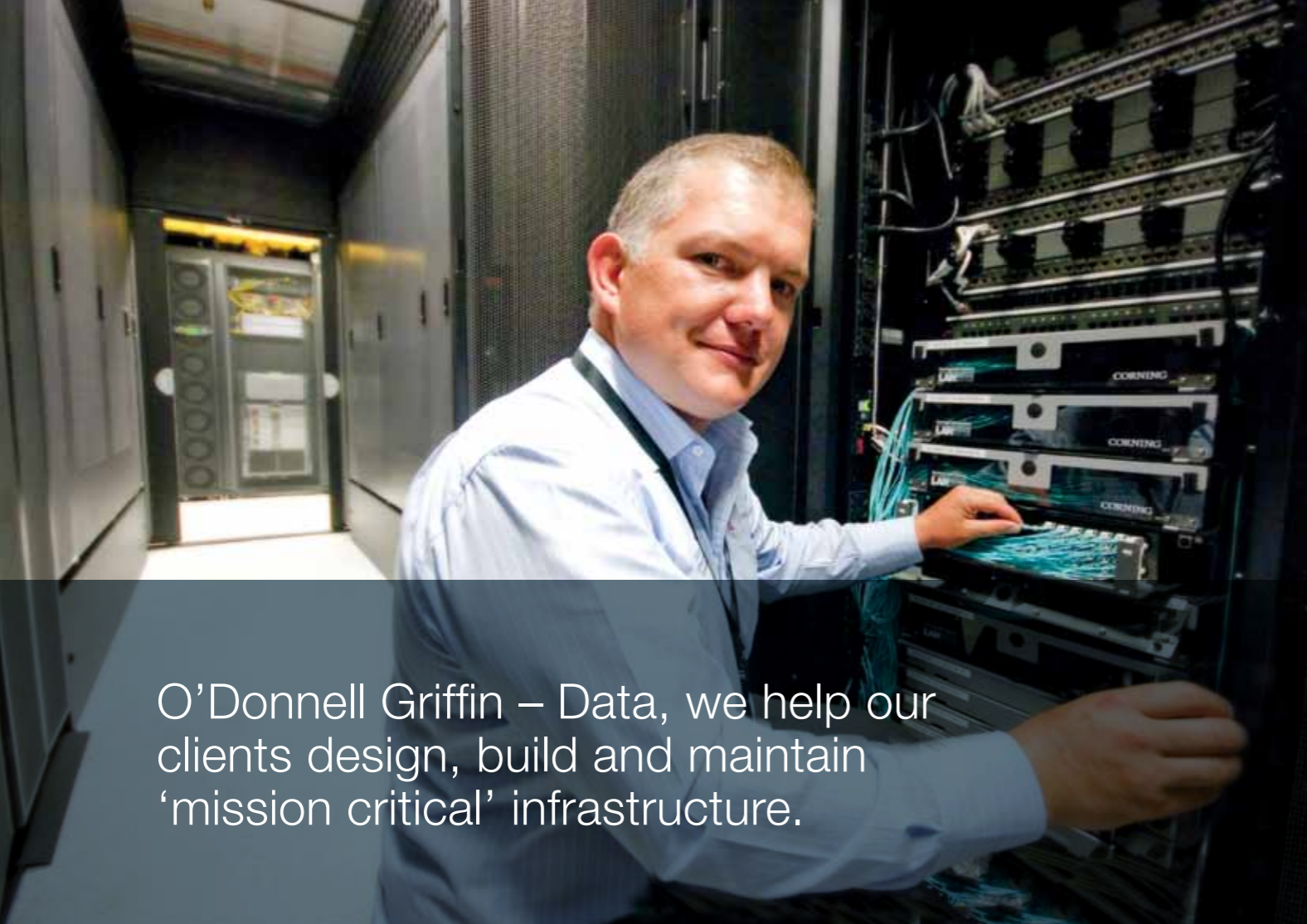
CASE STUDY

Canberra International Airport Terminal

The Canberra International Airport project involves construction of a new building along side the existing terminal as Stage 1, followed by the demolition of the existing terminal to allow construction of the second half of the new building. Stage 1 is now complete and O'Donnell Griffin – Data has tested and commissioned the cabling and network equipment for the project which included:

- OS2 and OM4 optical fibre backbone cabling
- Category 6A copper backbone and horizontal cabling
- Class B communications cabinets
- active equipment for lighting control

O'Donnell Griffin have also installed structured cabling for two carparks, the Qantas and Virgin lounges and specialty shops within the terminal. O'Donnell Griffin are also installing the lighting and power systems for the project. The combined electrical and communications services are valued at over \$25 million. At completion of the works, O'Donnell Griffin will have played a key role in creating a terminal suitable to our nation's capital.



O'Donnell Griffin – Data, we help our clients design, build and maintain ‘mission critical’ infrastructure.

Health and Safety

Under the maxim Safety All Ways, each project undertaken by O'Donnell Griffin must demonstrate a total commitment to a robust safety management system. Our safety management system in Australia is third-party accredited to AS4801. In New Zealand we are accredited to the tertiary level of the ACC Workplace Safety Management Programme. Our ultimate goal is to ensure all projects become incident-free workplaces.

Integrated Management System

In addition to a comprehensive operations management system, O'Donnell Griffin has an integrated set of policies and plans which assist in maintaining high standards of execution nationally.

Key systems include:

Environment - In Australia we are accredited to AS/NZ ISO 14001 Environmental Management Systems.

Quality Assurance - In Australia we are accredited to Quality Assurance System AS/NZ 9001:2000 or AS/NZ 9001:2008. O'Donnell Griffin sets quality targets for each of its business units annually, with performance data continuously collected and analysed to assess effectiveness.

Sustainability

All employees and sub-contractors must comply with our environmental sustainability policy across all design, installation and maintenance projects, and we actively encourage our employees to gain environmental credentials as part of their career development.

Community

At O'Donnell Griffin we believe that supporting the community is an integral part of our business, such as:

- the construction of the CareWorks SunRangers Community Crisis Aid Facility by donating labour and materials
- supporting The Royal Rehabilitation Centre NSW
- recruiting Indigenous Australians
- Charity Days to raise funds and awareness for children with disabilities



Our key projects



ACT Government

O'Donnell Griffin – Data undertook the design, installation and commissioning of the ACT Government Optical Fibre Network, known as the ACTGov Network. The scope of services provided by O'Donnell Griffin – Data included: excavation, trenching, boring, installation of communications conduits, subducts, preformed and custom pits, and the installation of long haul high-core count fibre runs. Currently this network is being expanded to include other smaller government entities in the Canberra region.



Silk Telecom

O'Donnell Griffin – Data is one of the main contractors for installing, terminating and testing Emtelle Blown fibre for the Silk Telecoms Perth Metro Fibre Network in WA. Working closely with the civil contractor and Silk Telecom project managers, O'Donnell Griffin – Data has successfully completed numerous fibre optic cabling installs throughout the Perth metropolitan area.



Rio Tinto

O'Donnell Griffin – Data were awarded the largest and most elaborate Panduit 10Gig data and communications network installation in Australasia at Rio Tinto's Remote Operation Centre (ROC). The ROC was built near Perth's domestic airport, and will house at least 320 employees who will work with Pilbara-based colleagues to oversee, operate and optimise the use of key assets and processes, including all mines, processing plants, the rail network, ports and power plants. Operational planning and scheduling functions will also be based in the ROC.



Western Power

After recently being added to the Western Power Fibre Network panel, O'Donnell Griffin – Data was awarded the East Perth South Section network extension. The scope of work included the supply and installation of pit and pipe work (Emtelle Blown Fibre Ducting System) throughout East Perth to link Western Power substations. Our ability to complete the project in a very short time frame was a key reason for the project's success.



Lyell McEwin Hospital

The Lyell McEwin hospital in SA has gone through a number of major redevelopments, including the installation of an intelligent building cabling system by O'Donnell Griffin – Data. The project included the installation of a structured CAT6 cabling system for Data, Voice, BMS, Nurse Call, Security and CCTV, plus a separate RG11 and RG6 MATV installation. The total project consisted of 17 new communications cabinets, and the augmentation of 4 existing cabinets.



Woolworth's HQ

The main purpose of the project was to consolidate the existing 10+ regional offices spread out over the Sydney region into one HQ building. O'Donnell Griffin – Data's task was to install a Siemon Category 6 UTP copper structured cabling system to each user within the building, allowing the client to use a Gigabit data network to each desk. This project was one of the largest VOIP installations in Australia, and both data and voice was supported by a multimode OM3 fibre network served from eleven communications rooms within the building to a centralised on-site Data Centre.



Australian Central Credit Union

O'Donnell Griffin – Data performed the following works for the Australian Central Credit Union in Adelaide: installation and testing of a Krone Cat.6 structured cabling system, and Krone Highband frames in both the main computer room, and the communications room. Our services included hard patching of the data outlets on the Highband frame, which enabled the ACCU staff to plug their computer into pre-specified locations, with all data points working from the first day of commencement.



Centrelink Data Centre

O'Donnell Griffin – Data recently completed the data and communications installation for Centrelink's data centre and service centres in Canberra. The scope of works included structured cabling installations in Centrelink's customer service centres and offices, and optic fibre installations in their new data centre. The refurbishment of the data centre comprised 8,000 fibre ports and 1,000 Category 6 copper ports, installation of central passive distribution equipment and cable management. An innovative optical fibre solution was installed, with over 12,000 cores of optical fibre and over 1,200 Cat 6A copper ports. The MTP optical fibre solution uses high density distribution technology.

O'Donnell Griffin – Data

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O'Donnell Griffin is part of Norfolk Group Limited – a leading provider of integrated engineering solutions to the Asia Pacific market.

Other companies in the group include Haden, a leading air conditioning and mechanical engineering company and Resolve FM, a leading Technical Facilities Management Company.

Together, with other group members, O'Donnell Griffin provides a complete electrical, communications and mechanical engineering solution, supported by ongoing maintenance and management of critical assets.

Norfolk Group companies are united by their dedication to providing:

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