



Capability Statement

Industrial Communications & IT (ICIT)



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About Calibre Controls ICIT



Calibre Controls is a results-focused production automation specialist, providing "*Intelligent Production*" control and information management solutions for optimal plant throughput and "*Increased Asset Utilisation*".

We provide technical engineering, project management and support services for automation, SCADA, Industrial Communications and Information Technology (ICIT), Manufacturing Execution Systems (MES), production optimisation and general consulting.

As part of Calibre Controls, the Industrial Communications and IT (ICIT) group is a solution driven communications and IT consultancy business providing network and IT solutions tailored to suit its clients needs.

The ICIT group provides engineering, consultancy, technical and project management expertise, primarily to the resources, infrastructure and processing industries.

The ICIT group is made up of a diverse set of industry professionals, collectively with over 36 years experience in the communications and IT business.

Our highly skilled team possess a wide range of technical and consulting skills that make the ICIT group the "go to" people for Industrial Communications & IT solutions, leaving our clients free to concentrate fully on their core business with confidence in the advice and services we provide.

Calibre Controls is part of Calibre Global, a group of complementary businesses including Calibre Projects, Calibre Safety Services and Calibre Rail.

Calibre Global businesses provide Project Management, Engineering and Consultancy Services to major resource and infrastructure companies throughout Australia and overseas.

Over the past four years Calibre Global has delivered in excess of A\$10 billion in capital projects. During this period, Calibre Controls has consistently delivered high quality, schedule constrained, information and control system projects to the mining and resources sector.

Calibre Controls workforce has now grown to over 75 personnel, predominantly engineers and technical support staff based in Perth and Brisbane.

ICIT – Our Value to Clients



The key to our approach in the Industrial Communication & IT (ICIT) group is working closely with our clients to fully understand their needs from an operational and business perspective. By forming this close relationship we can better understand the issues involved and help deliver the right outcome.

Our Independence

There are many communications and IT consultants who offer services around corporate and enterprise products and systems, and many vendors who offer a variety of office grade products. Calibre Controls ICIT group maintains vendor independence with a focus on the industrial, resources and infrastructure sectors. It is this independence that adds total value to your business and sets Calibre Controls' ICIT group apart from others. We can become a trusted advisor to investigate, assess, recommend, coordinate, manage, represent, deliver and support your end to end industrial communications and IT requirements.

Communications, IT & Resources Expertise

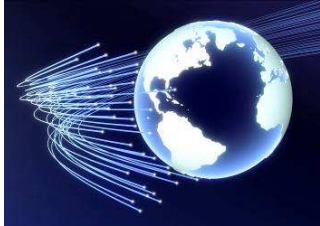
At Calibre Controls ICIT group we understand that the communications and IT environment is increasingly important in the resources industry and directly impacts the enterprise, operational and production aspects of the business. This can impact adversely on the business from a commercial and economical perspective. At ICIT we understand the key drivers and enablers required for business success, framing our advice and solutions accordingly, providing relevant commercial justifications so that real economic and commercial business benefits can be realised.

Our unique and diverse skill set enables, and allows for end to end solution consultancy, development, project management and delivery for your project.

Risk Management

If critical production and operational communications fail, are inadequate, poorly designed or lack scalability and redundancy, then systems cannot function or expand as the business develops leading to lost opportunities and revenue.

ICIT – Our Value to Clients



Calibre Controls ICIT group can complete infrastructure and system audits providing status reports, detailed corrective actions and priorities that allow you to focus efforts to reduce your risk and increase productivity.

This exposure can be addressed by evaluating communications infrastructure and IT systems along with their impact on your business by reviewing:

- Current Network Topology
- Security & Firewalls
- Network stability and compatibility
- Critical path and backbone communications
- Network Redundancy
- Scalability
- Physical network health, (Optical Fibre and Data Cabling)

Calibre Controls ICIT group provide industrialised communications technologies and solutions for industries that are reliant on redundant high availability networks. This is where the ICIT group can help your business to support 24/7 operations for critical control, production and operational systems as well as enterprise networks.

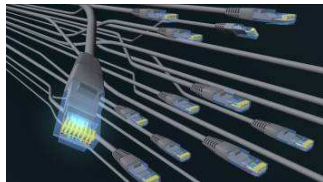
This is achieved by completing thorough audits and Gap Analysis reports, identifying and itemising points of failure, network topology, obsolete and incompatible network elements and provides value added recommendations using its broad industry knowledge and diverse skill sets.

Once issues are highlighted, discussed and documented, Calibre Controls ICIT group can assist with project management, contractor management, design and implementation providing a seamless end to end service.

In this way, the ICIT group provides a complete end to end communication and technology solutions to support your projects through many phases, and through important budgeting and financial processes.

Whether it's negotiating with a network carrier for point of presence or providing "quad play" for employee entertainment packages, Calibre Controls' ICIT group can provide a holistic consultancy with a fully documented solution analysis.

ICIT – Our Value to Clients



Network Improvements

Calibre Controls' ICIT group specialises in the consultancy, design, scope and estimating and delivery of layer 1,2,3,4 & 5 communications networks in order to optimise the communications infrastructure required for production, operations and enterprise network expansion. We liaise directly with the clients engineering groups in addition to in-house IS&T/ICT and on-site personnel to understand the plant and operational constraints. By understanding the constraints of the systems, solutions can be developed to address or mitigate any issues, thus improving the overall system performance.

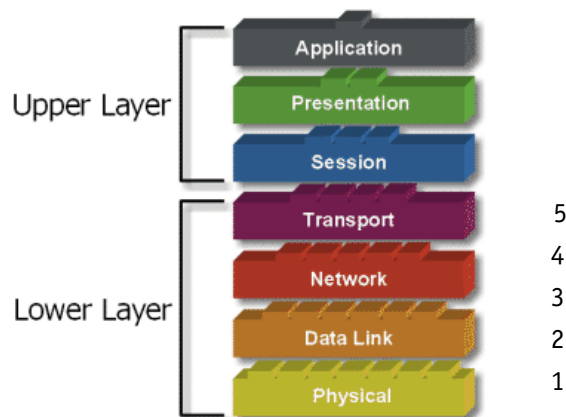


Figure 1 – OSI Reference Model

ICIT – Our Capabilities



At Calibre Controls ICIT group we undertake a wide range of scopes and responsibilities. Our capabilities include the following:

Audits

- Cable networks and wireless links
- IT and Hardware
- Operating systems

Consultancy

- Production system PLC and SCADA communications
- Carrier requirements and recommendations
- Temporary/permanent communication solutions
- Design and specifications
- Product and technical recommendations
- Converged networks
- Wireless
- Optical Fibre and Data Cabling

Project Management / Co-ordination

- Project/Contractor Management
- Scoping studies
- Functional and Technical Specification development
- Factory and Site Acceptance and Test Planning
- Implementation and Commissioning

Key Technologies

- Ethernet/VoIP
- Fibre & SDH/PDH Transmission Technology
- DWDM/OTN networks
- MPLS/PBT
- Next G/GSM/GPRS/Wi-Fi/ WiMAX
- Cat 5/Cat 6 cabling
- Optical Fibre SMOF/MMOF
- “Triple Play” & “Quad Play” (Internet, Telephony, TV, Wireless)
- Wireless Mesh networks
- VLAN/WAN/LAN
- VSAT/Satellite

ICIT – Our Capabilities



- Ruggedized Network hardware
- Active Directory
- Firewall, VPN & Security
- Antivirus, deep packet inspection
- Intrusion detection & prevention

Calibre's Corporate Directory



Calibre Global

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