

Capability Statement

www.simocowirelessolutions.com



Contents

Introduction	3
Our History	4
Our Key Differentiators	5
Private Mobile Radio	6
SCADA and Telemetry	8
Telematics	9
LTE Integrated Networks & Services	10
Our Services	11
Our Customer Markets	12
Our Global Reach	13
Certifications & SHEQ	14
Contact us	15



Introduction

Simoco Wireless Solutions where communication is critical

We provide complete wireless solutions from initial consultancy, through system design, project delivery to ongoing operational support, ensuring that organisations can transmit mission critical voice and data smartly and securely, 24 hours a day, 365 days a year. Our networks are among the world's biggest of their type, keeping devices connected across borders and on the move, in some of the industry's most challenging environments.

We use a combination of our own technologies and those from leading vendors to deliver the best-fit solution for each customer. We are thought leaders in the industry and are often at the forefront of development into emerging spaces. We aim to ensure we are always able to offer the very latest technology and systems to our customers. Our smart approach to unified communications enables organisations to draw together disparate technologies across multiple sites and assets, transitioning effortlessly to next-generation standards like LTE. By combining new smart technologies with existing voice and data capabilities across radio, IP, mobile devices, cellular and Wi-Fi, we help organisations benefit from the ever-expanding Internet of Things (IoT) and introduce new communications capabilities, without sacrificing security or reliability. From straightforward voice and data communications through to advanced features like geo-tracking and mapping services, our objective is always to provide unrivalled reliability and quality.

Our History

Over
70 years of
commitment
to
service and
innovation



Our history of innovation in mission-critical communications spans from delivering military-grade radio communications in the years before the Second World War to developing our own Digital Mobile Radio (DMR) network – Simoco Xd. We have led the development of new radio standards and protocols, such as MPT1327, POCSAG and TETRA, and have been instrumental in shaping the wider telecommunications and emerging digital communications landscapes.

With over 70 years of experience operating at the forefront of the radio and mobile communications industry – and a forward-thinking approach that is continually providing new technologies for a digitally-driven future - our rich communications heritage is something you can rely on.



1939



1970



1996



Today

We deliver innovative wireless solutions to customers around the world who depend upon our expertise to support their mission critical communication needs.



Our Key Differentiators

Ultra deep domain knowledge

We have been experts in delivering mission-critical communications for nearly a century. We have led the development of new radio protocols and standards into the digital era, so have helped to shape the communications landscape in which you operate. Our deep domain knowledge is relied upon by governments and many industry sectors to deliver solutions that help grow and improve modern economies and society.

Complete custom-fit solutions

We develop and manufacture our own products, in some cases among the first to comply with new radio standards – but we are also experts in developing custom-fit solutions incorporating equipment from other leading vendors. Our vendor and technology-agnostic approach means you can be sure of achieving the best solution for your unique needs.

Fully flexible service

Our expertise spans products, solutions and consultancy, from initial project design through to post-implementation support. Whichever elements you need – or don't need – our flexible service puts you at the forefront.

Our mission statement

By offering complete customisation and a non-proprietary approach we aim to ensure organisations have the best technologies in place to support their business and operational objectives. When operated in this way, we believe effective communication networks can underpin the essential services of a modern economy and its citizens.

Our capabilities

Private Mobile Radio

Simoco Wireless Solutions is one of the world's leading PMR providers; with unparalleled experience and outstanding expertise, we will help you harness the power of PMR.

WE CONSULT



We begin by finding out everything there is to know about your organisation, your workforce and your unique communications needs – so that we can design a bespoke PMR solution that is perfect for you.

WE BUILD



Our skilled engineers undertake all aspects of the build process, ensuring that your PMR solution is fully integrated into all your existing technology.

WE OPERATE



We provide all of the training, technical support, monitoring and maintenance you need to keep your PMR solution running smoothly – you can pick and choose the exact elements you need.

Simoco Wireless Solutions has gone further than anyone else in exploiting the capabilities of DMR to develop our own DMR solution, Simoco Xd, which is fully standards compliant yet with a cloud-based distributed architecture.

In practice, this means that Simoco Xd does not rely on switch hardware that would add cost and reduce resilience, and does not rely on proprietary arrangements for routing traffic which is inefficient and limiting in the absence of a genuine control channel.

Our rich heritage and outstanding expertise as a radio and wireless communications systems integrator means we can design, build and operate complete solutions from terminals to infrastructure and applications.



Simoco Wireless Solutions offers a broad range of P25 technologies and devices, so that every project we take on is utterly bespoke to that public safety organisation. P25 provides system owners freedom of choice in mobiles, portables and infrastructure, since TIA compliant products may be mixed within a radio system, avoiding a proprietary lock-in to a single supplier. The Compliance Assessment Program (CAP) is a vehicle for manufacturers to test and recognise interoperability between vendors' radio equipment.

P25's large cell sizes and relatively high power mobiles make it suited for large geographical areas with medium population densities. Where population densities are low and large areas are to be covered, P25 Simulcast offers an economical and scalable solution.



Simoco Wireless Solutions is one of the world's leading systems integrators of TETRA. We have specialist staff in all TETRA radio communication network services and our full-service approach to TETRA systems takes on a 'one-stop-shop' ethos, with dedicated staff that facilitate every aspect of a project's requirements from start to finish.

With access to a comprehensive choice of the latest, globally developed TETRA products from some of the world's leading manufacturers, coupled with our highly trained team of TETRA specialists, we are ready to work with you to develop a TETRA communication solution that delivers real value. We are highly experienced in delivering tailored, reliable, TETRA radio systems to customers in a range of markets including public safety, transport, utilities, mining and other commercial markets around the world.



Analogue radio systems today still represent the backbone of radio communications deployments worldwide. Simoco Wireless Solutions' ongoing commitment to support customers with their communications needs has resulted in a significant portfolio of analogue radio products.



Our capabilities

SCADA and Telemetry

Simoco Wireless Solutions provides unified communication networks which enable our customers to manage and control thousands of assets, including those located in vast and remote operational areas.

SCADA (Supervisory control and data acquisition) is an industrial automation control system at the core of many modern industries. The term refers to centralised systems which monitor and control entire sites, or complexes of systems spread out over large areas (anything from an industrial plant to a country). The system consists of a number of Remote Terminal Units (RTUs) which collect field data automatically and connects back to a master station which enables the operator to perform remote monitoring and control tasks.

Our SCADA and telemetry capabilities make use of a variety of technologies, enabling us to provide a reliable means of transmitting mission critical data for a wide range of organisations.

Our Simoco Pulse product portfolio, for example, uses the Simoco Xd DMR network to provide secondary SCADA capabilities. It is ideal for delivering secure and resilient low bandwidth data communications and can be used to connect tens of thousands of remote terminal units (RTUs), including those that are dispersed across a large geographical area.

Our Simoco Xm Ethernet radio range is designed for primary SCADA communications. It is ideal for mission critical applications in a range of sectors, including energy and utility services. Combining both IP and serial connectivity, Xm modems provide a clear migration path from serial based infrastructure thanks to the modems inbuilt “migration solution software” which allows the phased replacement of legacy radio modems.

Our capabilities also include expertise in cellular routers, microwave and mesh radio networks, ensuring organisations are able to maximise the benefits of modern SCADA and telemetry networks. Reliable access to real-time information allows organisation to make data-driven decisions in order to improve their processes and operations, reduce costs and improve safety and security. From remote monitoring to control and automated responses, our SCADA infrastructure can help your organisation implement a smart approach to critical asset management.

A long-exposure photograph of a city street at night, showing light trails from cars and streetlights. The scene is illuminated by blue and white lights, with tall buildings in the background.

Our capabilities

Telematics

With Simoco Telematics, you can access previously untapped data from within your business - and use it immediately to drive efficiencies, reduce costs and generate real innovation. All with the benefit of our rich heritage in communications technology, and vast experience in truly mission-critical environments.

New smart technologies are being integrated with existing voice communication channels across radio, IP, mobile devices, cellular and Wi-Fi, and the IoT is only accelerating the pace of development. But, at its core, telematics is still simply about communicating information over long distances – reliably and securely.

For organisations to maximise the benefits of telematics and position themselves strategically for future development, everything from simple voice communications to advanced features such as application development and geo-tracking needs to be unified on converged communications infrastructures.

The benefits of telematics include;

Monitoring - Visual and directional control over every mobile asset in real time

Access Control - Full regulation of fleet authorisation and vehicle access via personal swipe cards

Geo Fencing - Risk mitigation through prevention of unauthorised vehicles entering non designated areas

Reporting - Fully customisable criteria allow for both historical and real-time operational snapshots

Time Analysis - Real-time reporting and top-level overviews allow for optimal time management

Maintenance - Fully configurable warnings mean your fleet is always one step ahead

Diagnostics - Live diagnostic functions and warnings for both vehicle and driver behaviour help to eliminate human error

Best Practice - Full insights into driver activity allows you to drive positivity within your fleet



Our capabilities

LTE Integrated Networks & Services

Simoco Wireless Solutions is proud to have worked at the forefront of communications developments and protocols for over 70 years. Now we are helping our customers to harness the benefits of next-generation converged communications.

Our approach to LTE enables organisations to manage the current challenges associated with technology – from coverage, to cost, to supplier restrictions – so that they are ready to face a future in which LTE is the dominant communications standard.

We take into account the technologies deployed on your current network, the areas you need to cover and your organisation's growth plans, and deploy LTE solutions that offer you freedom and flexibility.

Our LTE Approach

The challenges associated with LTE mean organisations wishing to transition towards the technology are still required to maintain additional communications infrastructure in order to achieve adequate reliability and coverage. This, typically includes the continued use of PMR technology as a proven means of delivering mission critical voice and data. However, to ensure organisations are able to benefit from the advanced applications available through LTE, we ensure our mobile radio technology can be integrated with the standard. Our Simoco Xd DMR infrastructure is capable of incorporating a range of LTE-based services and applications, such as mapping software. Additional products, such as the Simoco Bridge gateway, also enable users to access a range of LTE based services, including email, HTTP requests and Internet of Things (IoT) applications.

The Mission-Critical Mix

For organisations that deploy truly mission-critical communications networks across diverse geographical areas, LTE may not yet offer the coverage they need to guarantee top levels of uptime and reliability. However, the IoT era is producing new applications and capabilities that require LTE infrastructure as part of an effective mission-critical mix. We ensure your organisation is well placed to benefit from both reliability, resilience and functionality.

Our capabilities

Our Services

Customer Management
Standard Development
Consistency
Business Optimal

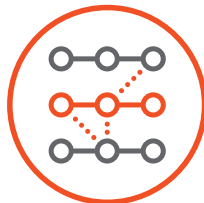
Manufacturing Supply chain
Product Cargo
Customer Delivery
Inventory Management
Freight

Manufacturing Supply chain
Product Cargo
Customer Delivery
Inventory Management
Freight

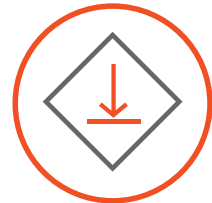
Simoco Wireless Solutions provides end-to-end services tailored to your needs



RF Propagation & Network Planning



System Design



Installation & Commissioning



System Integration



Training



Confined Space Engineering



Maintenance



Management Reporting



Support Services

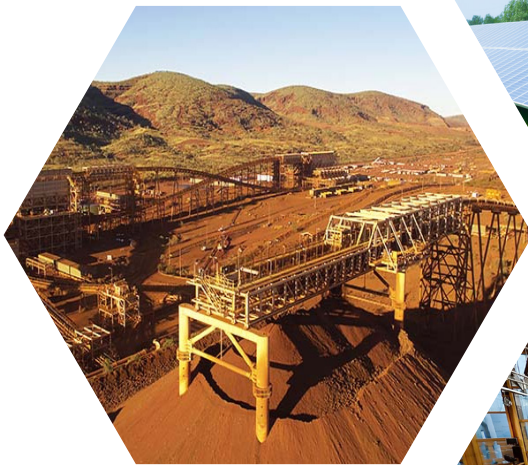
Our Customer Markets



Transportation



Utilities



Mining

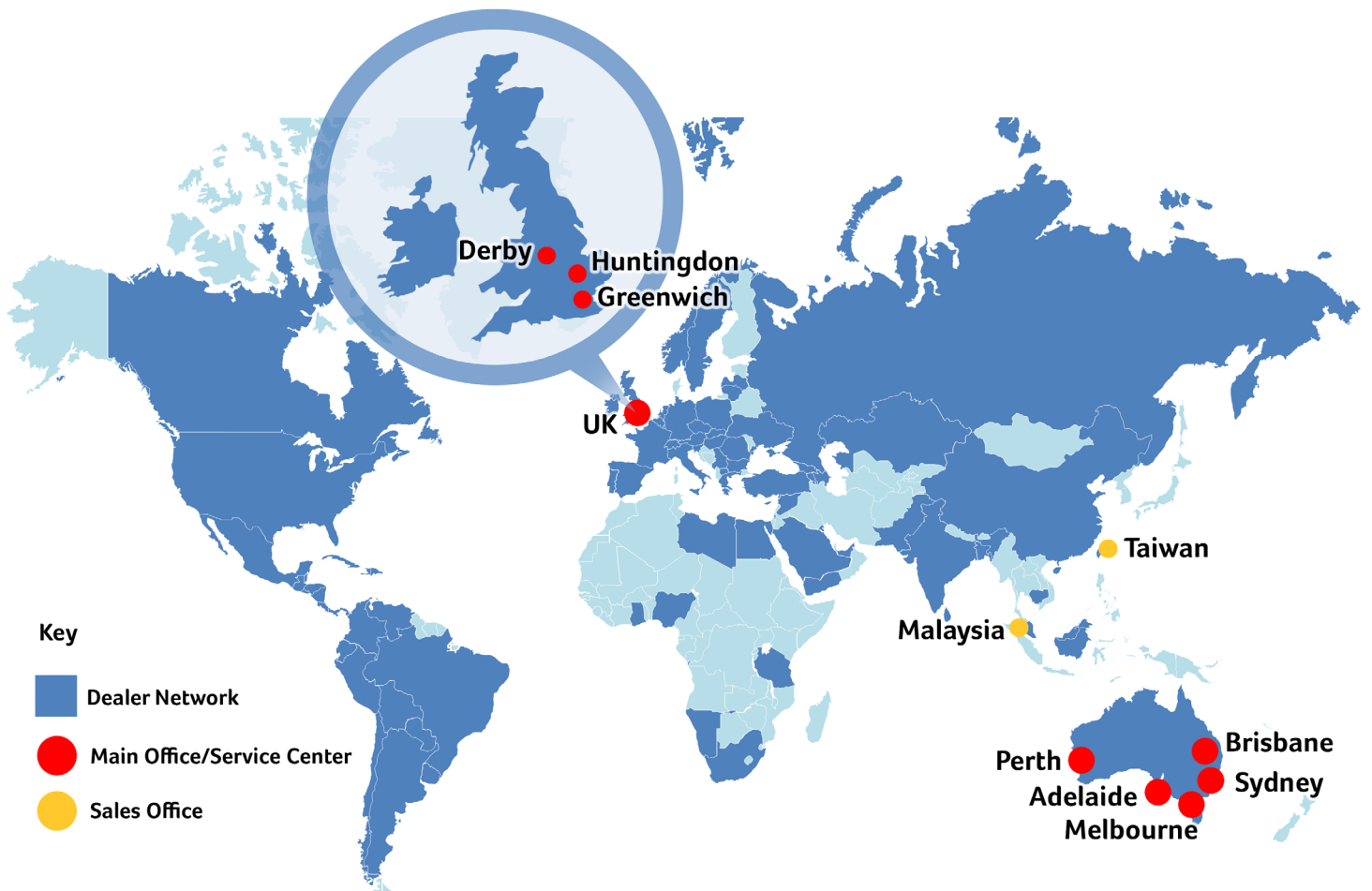


Government & Infrastructure



Public Safety

Our Global Reach



Operating across the world through 350 dealers in 89 countries

Simoco's global reputation and reach is built on the quality of our solutions, our international workforce and our ability to work with expert partners to deliver solutions that support our customers' operations.

Partners include those who develop applications on our systems, those who provide complementary hardware for Simoco systems and those who resell our equipment as part of a wider solution.

Certifications & SHEQ

We understand the importance of contributing to the development of the unified communications landscape in which our customers operate. We are proud members of DMRA, PTIG, ETSI, TETRA and Critical Communications.



The Simoco Wireless Solutions SHEQ management system (UK units certifications certified to international standards accreditations BS EN ISO 9001, 14000 and BS OHSAS 18001, Australasia ISO 9001), promotes a process approach to continual improvement of a comprehensive framework of interrelated elements including Group policy, processes and procedures that govern all of our activities. Effective management of Safety, Health, Environment and Quality, including a culture of Corporate responsibility and continual improvement, is of key importance to our stakeholders, customers, employees and the public.



Certificate Number 8844
ISO 9001
ISO 14001
OHSAS 18001

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