

commtel

site services.





comprehensive site management services for critical network infrastructure.

Need a major partner to successfully deliver your infrastructure construction project from start to finish?
Someone who can manage all aspects of your site safely, while still maintaining a focus on quality, compliance and delivery?
An organization with an unmatched combination of technical knowledge, site management experience and expert capability to get the work completed right, every time?

CommTel can deliver all this for you, and more.



why commtel?

300+

communications networks designed, installed and commissioned by CommTel around the world

>130k

kilometres our team have driven, with over 30,000 hours worked by our site services team to deliver projects

20+

years of experience in site installation and commissioning services

As a one-stop shop communications network services provider, we can design your critical communications network and then help build the infrastructure from its very beginnings through to approvals, handover and implementation. We can then provide the ongoing site management and technical support you need to keep it operating for its lifetime.

Our site management capability complements our 20-year-plus position as the leading provider of mission and business critical communication networks, and is part of a complete package of services we offer to ensure you secure the solutions you need to successfully serve your customers.

We are adaptable to all customer requirements, environments and have solutions for the most rugged terrains, and once we've installed the network, can look after it for you too.

Always safety first

Safety is embedded in everything we do. As we are the principal contractor, entrusted with managing the site, we take on full responsibility for everything that occurs at the site and ensure it meets all your health, safety, environmental and quality (HSEQ) requirements.

Our site management procedures on safety, compliance and quality meet the highest standards. We will adapt to your HSEQ policies and procedures to ensure a safe workplace, or will comply with our policies if they are more stringent than yours.

We ensure you have visibility of our processes at all times, so you understand what is happening on-site every day, without the need for site visits. We build a

comprehensive risk management register detailing the low, medium and high-risk activities that we continually monitor.

You'll deal with the same team from start to finish

We appoint a lead team to manage all stages of the project so you have clear lines of contact throughout its duration. They will ensure you are informed at all times.

Behind them will be a team of people from across our business managing all work requirements, from health and safety and supply through to drafting, document management and approvals.

We can also provide our own fully qualified, fully inducted people to work on the site who understand the regional requirements. Our people are in the regions where you need to install your infrastructure.

It's about building a long-term partnership

Everything we do at CommTel is geared towards building a long-term mutually successful partnership and that applies to our site management services. The decisions we make together, from the design phase through construction to delivery, are all about meeting your needs.

When it comes to safety, together we work with you so you are always aware of the risks and control measures we undertake to deliver the project with zero harm. It's why we currently have a Total Recordable Injury Frequency of zero – and that's where we intend to keep it.

why are we different to other site services providers?

We are different because we cover all bases, from the initial design of the network, proof of concept and the sourcing of the parts, through to lifetime support of the end project. We have outstanding capability in design, construction and implementation.

Because we understand all elements of the project, we identify synergies for you that can improve performance, unlock value, contain costs and save time.

We use the latest technology in everything we do. We use the latest planning tools for radio coverage design. We use the latest test equipment to ensure our solutions will work, and use the latest equipment to test and analyse the network to ensure its capability and compliance.

We have a presence in remote regions where you need site services to be delivered. We build strong relationships and utilise the local community for supply, fabrication, storage and logistics, to build relationships on your behalf in the project area. Where we have a prolonged project span, we encourage traineeships to develop local skills and build experience.

Our site management services help minimise site visits, saving you time and money, and ensure the construction process is completed safely, efficiently and effectively.

We offer future solutions today

We offer drone video footage so you can view the whole site remotely, from a bird's-eye perspective. We can apply this drone technology for analysis and structural inspections.

We also have the ability to deliver a 360° virtual reality experience of the site to you, incorporating drone footage. Not only does this offer significant insight, it can be used for training purposes, help in securing approvals and with the official handover process.

We use cloud-based software to assist with the onsite management for health, safety and travel management purposes and reporting.

All our site management related technologies are based on open source and can be fully integrated into any agile project management environment you require. Last but not least, we are working towards a fully paperless, virtual, all-device accessibility site management solution and look forward to offering this to you in the near future.

We offer a complete range of site management services including:

- Site evaluation and implementation of safety equipment for firefighting, dust suppression, site communication, site layout and zones for emergency scenarios
- Geotechnical survey and reporting
- Site survey pegging pre-construction
- Site earthing and grid installations
- Compaction reports and grout cube testing for foundation conformance to design specification
- Location reconnaissance for communication towers to ensure minimal work requirements to establish the site
- Provision of building assurance certifications for foundation anchors and structural components
- Verticality reports for tower structures
- The use of qualified riggers capable of constructing a site from the ground up
- Multiple contractor management services as the job transitions through its phases
- Skilled site supervisors with broad industry experience
- Completion of all document requirements from FICs to ITRs, and SATs
- Link testing and drive testing of services across all technologies
- Detailed photos of the initial construction phase to completion, and the ability to deliver drone and 360° view-of-site indoor/out for VR-enabled virtual tours.



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Delivering all aspects of a mission-critical communications network upgrade for a major gas project in regional Australia

One of Australia's leading utilities has a major gas project in regional Queensland, near Roma. The communications network managing its existing gas wells in the region had reached end of life and it was expanding the field rapidly through exploration, opening new wells to grow its LNG output.

The utility turned to CommTel for a technical solution that would work for the lifetime of the wells and to manage all the construction and installation aspects of its communications network upgrade and expansion program. It wanted both a technical and site management solution.

Site management challenges

Site civil and construction works are never the same; each site has something different about it that can affect the schedule or costs. In this case, even though the site survey had shown promise, we found no rocks at 7.5 metres for a solid rock anchor foundation for the proposed towers.

We quickly brainstormed and decided to conduct another survey at 14 metres, where we found a more solid foundation. The site had to be re-approved to meet site engineering standards, such as wind conditions and loading.

Before any site activities were conducted, site conformance had to be completed and approved. The Queensland Surat Basin sites

had varying degrees of landholder requirements, such as separate weed hygiene certification, site access tracking, no go/go zones and property sign-on/off. These required conformance and recording to ensure they were met at all times during the construction phase.

These requirements needed to be filtered down to our contractors to ensure daily routines were followed, and we did this through pre-starts, toolbox talks, and onboarding requirements.

Stringent pre-qualification was conducted before any site mobilisation, including construction readiness documents. Emergency Response Notification (ERN) and Simultaneous Operations (SIMOPS) was communicated to all parties throughout the project to ensure everyone was aware of where we were working and any issues involved. This meant, in the event of an emergency, they would know where we were located.

We conducted weekly construction meetings via teleconference onsite to provide the customer with updates. We take HSE issues and learnings very seriously and ensured these learnings were shared across CommTel and with our customer via safety alert emails.

We were required to cover vast distances as part of this work, and this included traveling to remote and isolated places. We ensured our people and contractors were experienced in driving and working in these conditions and could adapt to site requirements, and we used in-vehicle monitoring. We also

implemented a system to manage our Journey Management Plans, to help manage remote travel, fatigue, and risks.

We are pleased that the ongoing Total Recordable Injury Frequency for this project remains zero.

Outcome

We are delivering a future-proof expandable telecommunication network, including all infrastructure, and the customer has fully entrusted CommTel to deliver the rest of the program on a turnkey basis.

The utility is satisfied with our solution and site management services, and we are making plans to mobilise again as exploration continues.



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about commtel.

CommTel is a leading international provider of advanced and engineered solutions for mission and business critical networks. We are a technology integrator, specialising in the delivery of network solutions that ensure the reliable delivery of vital services such as water, gas, electricity, public transport, and emergency services.

CommTel is widely known for innovative technology solutions, providing the network infrastructure and associated applications that optimise existing networks, as well as delivering digital transformation programs that provide a seamless transition from legacy to new technology.

Businesses in the mining, transport, oil & gas, utilities and emergency services sectors rely on CommTel as their trusted, long-term partner to ensure their systems meet their exacting requirements in the critical areas of safety, reliability, capacity, efficiency, intelligence and security.

CommTel is certified to the highest international standards for Security, Health & Safety and Quality, and maintains a strong commitment to the environment.

To find out more about how CommTel can take your business into the future, visit www.commtelns.com

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