

Critical Communications and Telecommunications Engineering Services

Our Focus

Our focus is on the provision of critical communications and telecommunications related professional engineering and technical advisory services across a range of industries that include public safety, government and private enterprise.

Our Team

Our core team of engineering consultants are more than just technical advisors, they are problem solvers and trusted advisors that are focussed on delivering outcomes for our clients.

We have a proven track record in effectively engaging with a range of stakeholders and vendors and importantly can combine our technical advice with sound commercial judgement.

Our clients' success is our success. We know our clients personally, recognise their challenges and adjust to their needs. We focus on the right things at the right time.

Why Nova Systems?

Nova Systems is a 100% privately owned Australian company, made up of smart people, solving complex problems in various industry segments.

Our vision is to solve the complex challenges that really matter to our clients.



Client-side specialist | Committed to our client's success

Our client focused, whole of systems-based approach allows us to integrate and simplify complex technical requirements in support of robust project decision-making and management. We also apply a commercial mindset to ensure that both the technical and commercial aspects are considered.



Systems Thinking | Industry leading integration across vertically aligned projects

Companies and organisations across various sectors and industries are grappling for solutions to the 'time and cost blow-outs' often associated with contract delivery. Nova Systems has a project delivery support capability that creates further efficiencies, reducing the risk of integrating complex project requirements.



People | The right team

Our consultants are chosen for their ability to integrate world-class expertise with local knowledge, allowing us to consistently deliver locally focused, world-class project solutions. Culture is central to Nova Systems' mission and we have consistently featured in the BRW Best Places to Work. This recognised strength allows us to attract and retain a highly talented team of professionals.



Partner of choice | Breadth of expertise

The core team is also able to leverage the security, GIS systems, autonomous mining, safety and system engineering capability from within Nova Systems. In addition, we have existing partnerships that can be leveraged for specialised services that relate to satellite, private LTE/5G and P25 technology.



Independence | Finding the right solutions

Our independence ultimately allows us to deliver the right solutions and manage projects with empathy for our client's and the contractor(s) perspectives. We pursue value for our clients, in line with their interests, without conflict of interest.



Services

Advisory

- Strategy
- Requirement's development
- High level system design, architecture and planning
- Cost modelling and business case development
- Procurement, evaluation and contract negotiation
- Systems management, service and support
- System assurance, review, and quality audit
- Business Continuity and Disaster Recovery Planning (BCP & DR)

Other

- Project management
- Spectrum Engineering Services
- Radio coverage modelling
- Geospatial information services
- Data analytics
- Training

Technologies

Radio Access Networks and Terminals

- Mobile and Fixed Wireless 4G/5G radio systems
- Private LTE systems
- LMR radio systems
- Other radio systems including paging, Wi-Fi and Mesh technologies
- Satellite Systems
- Ruggedised portable devices
- Multi-bearer vehicle router solutions

Transmission

- Fibre transmission
- Microwave transmission
- Wholesale transmission services

ICT Infrastructure

- Cyber Security
- Telephony systems
- Systems interfaces
- Servers, client and mobile computing
- Networks
- Dispatch Centres, Control Rooms and Call Centres
- Cloud and Data Centre infrastructure

Experience

Some of our core teams recent experience is summarised below and we can provide more specific references, use cases and referees on request.

Public Safety

Nova Systems work extensively with Public Safety Organisations across Australia on state-wide land mobile radio (inc. P25), paging, mobile data, telephony and Computer Aided Dispatch (CAD) solutions and projects. Several of the consultants have also worked with providing advice on radio technology, costs and modelling for Australia-wide public safety mobile broadband solutions.

We have also provided specialist communications engineering advice and support in the deployment of an ambulance service mobile data network and a P25 government radio network.

Critical Communications

Nova Systems has developed telecommunication strategies and evaluated communication solutions for power utility and rail organisations. We have also provided strategic and procurement advice to enterprise for their telephony and Wide Area Networks.

We have provided specialist communications engineering support in the deployment of a private LTE network and other telecommunications infrastructure for a major oil and gas producer.

Government

Nova Systems has provided technical advice to various state and federal government departments in the evaluation of telecommunication solutions comprising fixed and wireless broadband solutions, and public Wi-Fi.

We have provided both technical advice and the evaluated proposals for the department of communications including the Mobile Blackspots program, the 5G Innovation Initiative, the Regional Connectivity Program and a fibre transmission network proposal in regional Australia.

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