

Parabolic

N E T W O R K S



Capability Statement

2014



Parabolic Networks
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Company Details

Parabolic Networks specializes in network integration and optimization of Data Networks, RF Transmission Systems and Satellite Communication technologies. With extensive experience dealing with the integration, upgrade and optimization of legacy systems in remote locations across the Pacific region ranging from small Branch Office internet/intranet VSAT connections to complex hybrid terrestrial/satellite networks spanning multiple countries large geographic areas and utilizing a variety of transmission mediums and technologies.

With the prohibitive costs of satellite bandwidth, WAN optimization and efficient use of available spectrum is a priority to keep OPEX low. With the development of more efficient hardware and software systems, the amount of required satellite spectrum can often be significantly reduced or the throughput of an existing system can be increased at little or no cost to the operator.

Client expectations are continually rising and even 3rd World countries now expect a 1st world standard of service and availability, this means that networks must remain active and faults must be resolved rapidly, increasing the requirement for effective monitoring systems and trained operations teams to respond to and resolve network faults. We specialize in customization of SNMP monitoring platforms to monitor all parameters on a network to quickly identify areas of concern.

Parabolic Networks can assist you with optimizing your existing network or manage the rollout of new infrastructure. With over eight years of industry experience providing communications solutions in the harshest of environments and to the remotest locations both locally and globally.

Key Personnel

Rory Simpson - Director

After completing a Bachelor of Engineering degree in Electrical and Computer Engineering from the Queensland University of Technology, Rory Simpson joined Cable and Wireless UK on their two year graduate development program. Through this program he gained experience in their Global Platform, IP Planning, Transmission and finally Satellite Engineering divisions and conducted various projects with the International Business units in Japan, Ascension Island and Vanuatu.

Rory migrated to Australia to join Pacific Teleports – now Pactel International, where he helped to develop an extensive Pacific Wide Voice and Data network and provided a suite of customised communication services to the Pacific Island countries. To provide each customer with a suitable network, a number of different satellite platforms were used to reach out from the remote locations and connect back to a core terrestrial network in Australia.

Prince2 qualified, Rory specialises in the project management, design and implementation of complex rural and remote communication systems.

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Services

Consulting

Technical Consulting

Wireless and Satellite Systems – Specializing in VSAT HUB platforms from a number of vendors including Shiron, Gilat and iDirect using TDMA, FDMA and SCPC type services. Parabolic Networks can provide advice on Earth Station design, RF Engineering and Link Budgets, Satellite Selection, Space Segment Management, Remote terminal design, hardware selection and operation.

Terrestrial Data Networks – working together with other providers, Parabolic Networks can assist with L2 or L3 networks and advise on router and switch selection as well as firewalls and security.

Hardware Selection – With extensive experience with satellite modem vendors, RF componentry and IP networking equipment, Parabolic Networks can assist you in selecting new hardware, perform upgrades to existing hardware or test and repair faulty equipment.

Business Consulting

Business Cases – it is often difficult to ensure all Capex and Opex components in a complex system have been considered correctly when preparing a business case. With the correct technical input to a business case you can be sure that all bases have been covered.

Network Optimization and performance – Is your network operating as cost effectively as possible? With today's rapidly changing technologies and advancements in satellite coding schemes you may be able to dramatically reduce your opex or increase the capacity of your network.



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Project Management

To ensure effective project delivery and value for our clients Parabolic Networks manage the full project life cycle through:

- Identifying the project and client requirements.
- Establishing clear and achievable objectives.
- Balancing the competing demands for quality, scope, time and cost.

Parabolic Networks will ensure that appropriate human resource management, communications strategies, risk management and procurement management systems are put in place to achieve required project outcomes.

Engineering Services

With extensive practical experience in designing and building live networks, Parabolic Networks has the necessary skill sets to design, build and operate your communications platform.

Network Monitoring Tools

Visibility of your network availability and performance can be vital for forecasting growth areas of a network or troubleshooting a problem area to maintain service to your customers. Parabolic Networks engineers have vast experience of SNMP based network monitoring tools for IP based networks and knowledge of customizing these tools to monitor almost any parameter on any IP enabled device. This can be tailored to provide topological maps, performance statistics and trending graphs of any detail required. Let us assist you with implementing a network management platform for your network.

Satellite Link Budgets and RF design

As there are so many parameters involved with RF analysis, geographical, atmospheric, selection of satellites, interference, hardware selection, frequency selection to name a few. Parabolic Networks can take the complication away and perform a Link Analysis based on your requirement and can recommend the most suitable service and the necessary hardware required to connect your network.



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