

ENGINEERING SERVICES

Operational & Field Services

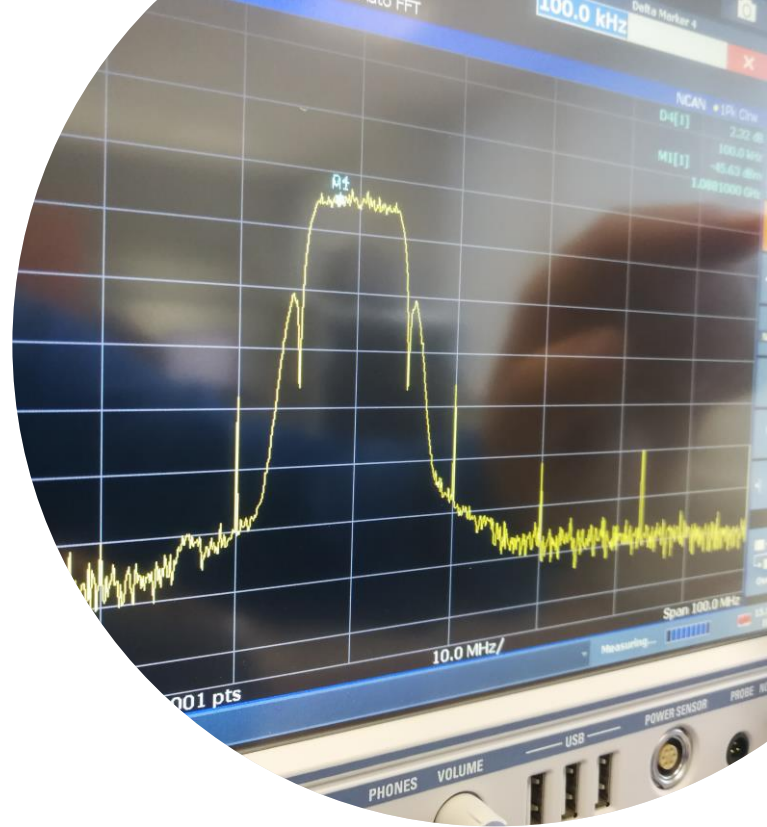
Accurate modelling, frequency planning, licensing and equipment standards all aim to ensure clear communications. Interfering signals, installation faults and RF engineering issues can, however, affect your communication services; analysis of the RF spectrum environment is then required:

- Monitoring of RF spectrum activity
- Assessment of frequency utilisation
- Locating & identifying interfering signals
- Interference mitigation in high RF environments

Whether it is tracking down a single rogue signal in a remote environment using direction finding (DF) systems or implementing interference mitigation strategies at busy sporting events with complex connectivity infrastructure, we have the tools and agile approach required to resolve your issue.

Erkmar Australia's team members have multidisciplinary backgrounds, including previous regulatory experience (including the ACMA) and wireless communications professionals with extensive fieldwork experience.

Coupled with our measurement and RF planning services, we can provide you with a complete package to assure your users of high-quality connectivity.



About Erkmar

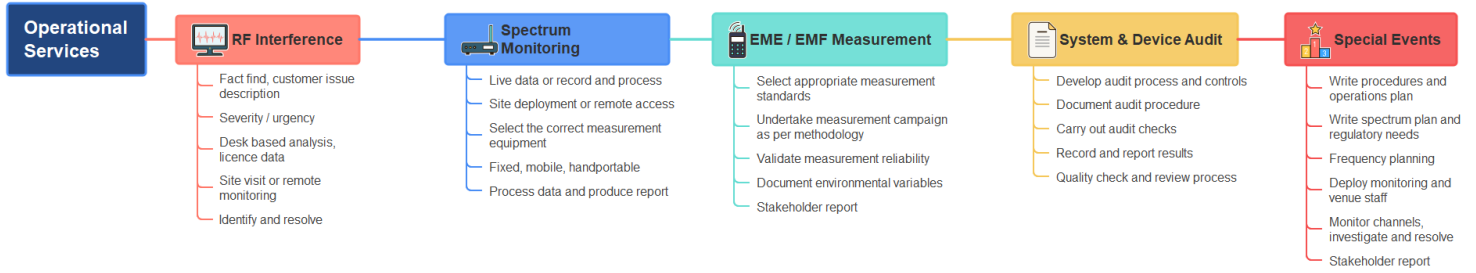
Erkmar Australia Pty Ltd is a technology consultancy and wireless communications services company, based in Brisbane, and part of a larger company, Erkmar Ltd that has a global presence in technology and regulatory consulting, with headquarters in the United Kingdom.

We have delivered assignments throughout the world for the last 14 years. Some examples of our services:-

- Technology strategy development
- Business case development
- Technical procurement specification creation
- Procurement process management
- Validation of vendor proposals against our client's requirement
- Project / program management of installations
- Post implementation validation of project deliverables
- Wireless network coverage mapping and validation
- Quality of experience / Quality of coverage measurement and reporting
- Business process design and validation
- Economic evaluation

We have worked extensively with Governments, Regulators, public organisations and private companies in all the above examples.

Contact us:
Email: enquiry@erkmar.com
Telephone: +44 203 034 2459
or +61 7 3473 1160



Operational services

We provide a range of services to ensure correct operation of your wireless connectivity services and infrastructure.

RF Interference resolution

RF occurs as natural physical phenomena along with the vast number of wireless connectivity systems keeping us connected. Many interference mechanisms and unwanted RF interactions can affect reliable communication. Our approach is to assess and explain the issue in simple terms, provide a visible picture representing the invisible RF interaction occurring and apply a range of RF spectrum monitoring and direction-finding techniques to achieve rapid resolution of issues. We have knowledge of the ACMA's regulatory approach to interference investigation and liaise with the ACMA where needed.

Spectrum Monitoring

Do you require data on the quality and amount of your frequency usage? Do you need to survey the spectrum usage environment around critical sites for planning system changes or for running a large special event?

We use a range of monitoring and spectrum analysis equipment, analysing live data on-site with our own personnel or deploying longer term fixed monitoring solutions within an area of interest that can be remotely accessed. Monitoring is often combined with requests for our ACMA Accredited Person (AP) licensing services, building a picture of existing frequency usage to inform frequency licensing requirement and efficient spectrum usage.

EME / EMF Measurement

We can provide standalone or ongoing regular emission level checks, a bespoke measurement service that

considers international measurement procedures and guideline emission levels. Private organisations and regulatory bodies often require assistance with validating emission levels and presenting results to a concerned and non-technical public. We have extensive experience of working within this often sensitive environment.

System and Device Audits

Whether part of routine audits and system health checks, or managing the control of device types allowed in large sites or venues, technical measurement and administrative compliance checks provide organisations and users with assurance of quality communications infrastructure and mitigation of interference from unlicensed or poor-quality devices and faulty systems

Special Events

Large sporting and music events often require all of these services listed, as a holistic spectrum management function. We can provide an end-to-end service; pre-event planning, wireless communication control procedures, frequency planning, venue RF device audit and compliance, in venue RF monitoring, direction finding and interference resolution.

Erkmar is your trusted service provider for operational services and RF field work