



Bespoke Software Development for the TB8100 base station/repeater

Tait Electronics

For more than 30 years, Tait Electronics has been designing and manufacturing advanced wireless communication solutions for mobile organisations around the world. Under the visionary leadership of its chairman Sir Angus Tait, the company has evolved into a successful multinational organisation and has become synonymous with innovation, flexibility and relentless commitment to the radio communications market.

Tait's success is due to their unwavering focus on producing innovative world-class mobile radio equipment and nothing else. By continually investing in research and development and manufacturing technology, and their single-minded dedication, Tait is able to ensure they produce dependable mobile radio solutions.

Based in Christchurch, New Zealand, Tait Electronics is the Southern Hemisphere's largest mobile radio supplier, employing almost 1,000 staff worldwide. Almost 95% of Tait's equipment is exported from its Christchurch design and manufacturing plants.

Tait is totally committed to meeting their customers' needs and prides itself on its openness, total flexibility, and responsive attitude to customers' unique requirements. Tait's customers include the world's biggest civil police force, the Chinese Gong'an, BP, Air France, Durban Metropolitan Council in South Africa, Malaysia Telekom, Egyptian National Rail, and BC Rail in Canada.

All Tait equipment is designed to be adaptable. Their core products are built on flexible hardware platforms that enable software to be configured to meet each customer's specific needs. Each product undergoes extensive field-testing and independent certification to meet international performance standards.

Tait have often employed the services of Production Software Limited (PSL) to help them develop the software for their solutions. In the early 1990s, Tait employed PSL's services for two years to provide bespoke software development. Then again in 2000, Tait employed the services of PSL to help them develop the new technology used on their next generation of base stations, mobiles and portables.

SUMMARY

The Challenge

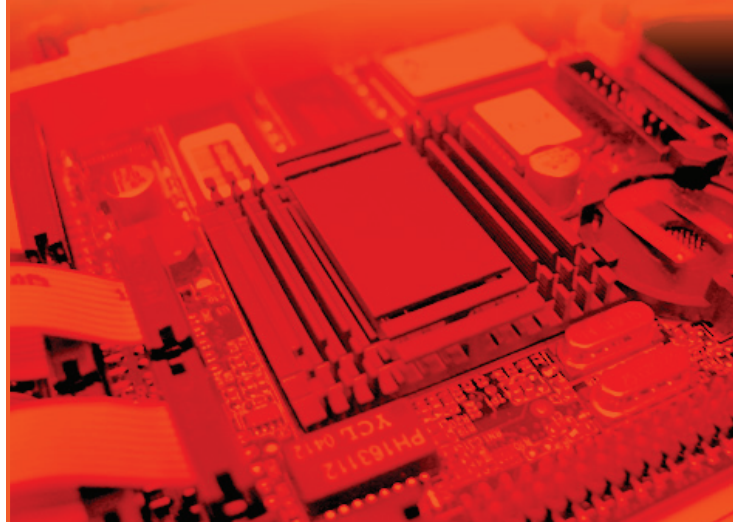
Tait Electronics wanted to upgrade their base station equipment in a short time frame. In order to do that, they needed to find a business partner who held their same values and commitment to quality so they could confidently achieve their goals.

The Solution

Tait found the ideal partner in Production Software Limited (PSL), a company they knew they could rely on to deliver a quality product on time and within budget.

The Benefits

PSL's friendly, experienced staff provided Tait with the perfect partnership to deliver the quality products their customers needed.



TAIT'S BUSINESS NEEDS

Late in 2001, Tait Electronics decided to upgrade their base station equipment from the T800 to TB8100 base station/repeater. While the T800 had set the industry benchmark for reliable Radio Frequency (RF) performance in its time, there was a need to update the base station to meet the growing market needs and requirements.

With an aggressive timeframe, Tait needed to find a reliable partner who could produce dependable software that met their high standards and tight deadline. Tait turned to PSL to help them develop the Service Kit module of the TB8100 base station/repeater because they knew they could rely on the company to deliver a quality product on time and within budget.

PSL was contracted to develop the Service Kit module of the TB8100 base station/repeater in February 2002, and work began immediately on the project.



THE SOLUTION

Based on their previous working history, and PSL's shared values and commitment to producing quality products, the decision to use PSL was an easy one for Tait Electronics. Tait commissioned PSL to develop the Service Kit for the TB8100 in February 2002, and PSL finished development in July 2003 on time and within budget. PSL's dedication to delivering quality products was exactly what Tait needed to help them get their TB8100 up and running.

Frank Hendriks, Software Project Manager for Tait Electronics says, "with the help of PSL we have developed an intelligent and flexible product that meets our customers needs for system integration, modularity and robustness."

The TB8100 base station/repeater is a modular solution for connecting radio to radio and radio to land line communications systems. It is an intelligent, high performance, flexible product that has been designed to reduce total communications system costs. With an even higher RF performance than its predecessor, the T800 base station, low installation and service costs, and the convenience of remote monitoring and operation, the TB8100 is the best communications choice for most customers.

The highly intelligent Service Kit software enables customers to diagnose and operate the base station from the comfort of their office. The TB8100's comprehensive and intuitive graphical user interface makes it simple to program. The base station has up to 150 operational parameters that manage every aspect of its configuration and can be saved as a user profile to enable the fast and accurate programming of additional base stations.



The Alarm Centre enhances the remote support features of the package by enabling alerts to be sent automatically via email, or over-the-air or line-connected tone pips. The Service Kit provides key access to advanced system features enabling customers to purchase additional advanced features, as they require them.

The TB8100's key features include narrow band/wide band switching, for future expansion, a modular design, allowing changes in configuration and simplifying maintenance, and a smaller overall size, requiring less cabinet space.

Other features in Tait's 8000 Series products include:

- Advanced signalling using Digital Signal Processing (DSP)
- Intuitive PC-based programming
- Robust design and specifications
- Complete remote operation
- Expandable, upgradeable platform
- Energy efficient self-monitoring
- 225 channels
- Additional advanced features with the software key.



THE BENEFITS OF USING PSL

Tait's TB8100 base station/repeater is an innovative and high-performing product that sets the standard of excellence for analogue radio communications technology. Without the help of PSL and their commitment to providing quality products and services, Tait could not have delivered the TB8100 to their customers in time.

The TB8100 is enabling customers like the Subscriber Network, in Queensland Australia to provide an extensive wide area network. The network provides customers across South East Queensland with cost effective radio communications to meet their individual business needs.

PSL's friendly, experienced staff provided Tait with the perfect partnership to deliver the quality products their customers needed.



"because of our previous, long-standing relationship, we knew that we could rely on PSL to deliver the best quality product that would meet our exact needs".

Rory Creagh, Infrastructure Program Manager, Tait Electronics Ltd



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