



“ simple solutions to complex communications ...”

Myelin Case Study

Defence Communications - Boeing Australia (Australian Defence Force)

The Client

The Australian Defence Force (ADF) contracted Boeing Australia Limited to provide an integrated communications network through the High Frequency Modernisation Project (HFMOD). Ericsson, supporting Boeing in the HFMOD upgrade, approached Braintree to provide specialist data communications products and services for this project. Braintree designed a solution with leading-edge data communication features such as the transmitting of unformatted data which is not found in other products in the data communications market.

The Problem

The HFMOD project is aimed to enable enhanced high frequency communications between all elements of the ADF, including Navy, Air Force and Army. Previously, each force relied on independent communications networks.

The communication upgrade allows the seamless integration of diverse high frequency radio communication equipment used by all Australian military personnel and at all levels of security.

Braintree was approached to supply key hardware and software to create the unified network for the HFMOD Project. As part of this consolidation of existing voice and data communications methods, Braintree was contracted to supply the data protocol conversion hardware and software..

The Solution

Braintree had to overcome several challenges in designing a customised solution for this project. One major challenge was to convert complex, unstructured signals in a manner that can be delivered over a variety of contemporary networks. The greater challenge was to achieve this without access to the original data configuration.

Braintree's solution was a customised synchronous terminal server (Myelin) that offered an integrated multi-function solution for networking applications. The solution provides an integrated Ethernet network access for eight synchronous devices to your Local Area Network (LAN). It is designed for transaction and/or data processing with Ethernet attached devices.

The solution is remotely managed and diagnosed via Simple Network Management Protocol (SNMP) and can be configured, managed and upgraded either locally or remotely over the network. These features allow the network manager to examine and adjust the terminal servers for optimum performance.

Braintree was able to supply a customised product for the HFMOD project in just nine weeks. The product met the project specification requirements and was within budget. Significant numbers of the product have been supplied for deployment in all Australian military facilities.

Key Features and Benefits

- Migrate existing legacy infrastructures to modern digital Ethernet networks.
- Self-install, plug and play technology replacing costly technicians and truck rolls.
- No system changes required, Myelin simply drops into existing infrastructure.
- Highly efficient way of connecting synchronous terminals to TCP/IP Ethernet LANs
- Specifically supports unformatted data, which is not found in other synch terminal servers
- Ability to simultaneously broadcast the same info to multiple ports - multi-channelling.
- Extended product lifecycle through remote software upgrades and high degree of flexibility.

Braintree specialises in developing solutions to allow legacy transaction equipment to connect to modern IP platforms using intelligent protocol conversion. Braintree provides expertise in Short Duration Transaction Networks such as Point-Of-Sale applications, defence and financial services and other transaction-based data communications.

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