



# Rail Networks

## Secure and Reliable Communications

“Our experience with Captec has been excellent. Issues and problems are dealt with swiftly and professionally. An example is a major component becoming end of life. We worked with Captec to agree an alternate hardware solution while maintaining existing functionality.”

### Principal Engineer

The solution is for a leading provider of technology solutions for transport control rooms. Their products and services are used by both the public and private sectors to improve the operational effectiveness of control and resource deployment activities.



### Requirements & Issues

- ▶ Requirements EMC and environmental compliance for operation in surface and sub-surface rail way projects.
- ▶ Provide reliable operation in unmanned environment with built in redundancy.
- ▶ Remote monitoring capability including power supply interrogation to enable preventative maintenance activities.
- ▶ Workstation and server solutions on common platform and form factor.

## The Solution

- ▶ Certified computing platform to EN50121-4 for railway deployment plus type approval for operation on surface rail networks
- ▶ Built in redundant PSU module and RAID disk array
- ▶ Special PCB designed to allow remote monitoring of the PSU module with SNMP monitoring of other services
- ▶ Flexible specification to allow configuration of server or workstation specification on common base platform



## The Outcome

- ▶ Family of rail computing platforms ready for other solutions
- ▶ Signal post telephone capability to allow safe and secure communications with train drivers
- ▶ Integration of disparate communication technologies allowing operators access to all service from single presentation



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