

Case Study

Medical

CAPTEC

Tried, Tested and Trusted



customer The

The customer is a world leading supplier of advanced and innovative radiation oncology and neuro-surgery solutions and services for the precise treatment of cancer and brain disorders.

Their systems are operated in the highly regulated medical industry, where all equipment and services are subject to rigorous approvals, through standards agencies such as European Medical Standards Agency, the FDA and other countries regulatory bodies.

Radiation Therapy and Imaging

Requirements and issues

- The customer required the replacement management of an aging and nearing obsolescence computing platform, for the automation of oncology treatment.
- The performance enhancements were required to accommodate the expanding demands in medical graphics imaging.
- The customer required total connectivity to back-end hospital systems for the networking and sharing of patient data.
- All supplied solutions must be compliant with key medical standards.
- The modernisation of equipment was required to enable the improvement of software driven features to enhance patient treatment and quality of after care.
- The customer required the migration to an industry standard operating system to leverage programming tools and allied applications.
- The supplier should be fully appreciative of the levels of documentation and control require for medical applications.



The value proposition

Captec possesses proven experience in large scale projects with long term roll-outs, coupled with an understanding of the customer's issues and requirements.

The provision of expert consultation and analysis of open standard industrial PC technology to future proof the computing platform.

The ability to comply with medical standards requirements.

Provision of a quality and manufacturing management controls system with total system component traceability.

A well established company with a proven track record and financial robustness to minimise supplier risk.

The provision of a complete complement of design and technical support resources to work in collaboration with the customer to design best-fit computing platform.

The ability to provide supply chain management of highly volatile components.

The provision of a change control mechanism of highly volatile components.

The financial ability to accommodate multi-currency transactions (Euro, Dollars and Stirling) and operate within the customer's financial framework.

Providing the customer with overall project risk reduction, working with an industry leader with a Tried, Tested and Trusted reputation.

The solution

The outcome



LCS - Powerful customised IPC, with dual back plane and frame grabbing technology.

Synergy - Dual Xeon, with frame grabbing capabilities built within a customised chassis.

- ✓ Captec introduced the customer to their first generation of PC based computing platform modulation. This has been followed by the introduction of 3 additional computer platforms.
- ✓ The provision of custom designed PC platform, tailored specifically to the requirements of the application.
- ✓ Overall project cost reduction by the leverage of COTS component technology.
- ✓ The customer has experienced significant increased performance from the medical equipment, benefiting from PC based imaging and processor performance.
- ✓ The equipment supplied has increased connectivity to hospital back end systems.
- ✓ Future proofing of the computing platform has been achieved by the use of open standard Industrial PC architecture.
- ✓ There have been substantial enhancements to medical systems, resulting in higher levels of patient treatment and throughput.
- ✓ Captec R&D team collaboratively engaged with the customer's engineering team to develop a custom designed Industrial PC platform to suit the requirements of the application

OUR PURPOSE - To be the recognised global leader in the design and manufacture of reliable and affordable industrial computers fit for demanding environments.

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INVESTORS IN PEOPLE



Strenuis Ardua Cedunt - Difficult things fall to the strong

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