# CyberPrism

# Digital Use Case – ProcessGuard™ Medical Legacy Device Close Protection

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|---|---|
| **Sectors** | Health |

**Situation**

Many key items of legacy equipment in the Operational Technology Domain, such as medical scanners, can no longer be patched. This obliges operators to replace them at considerable cost before the end of their natural lives, or to accept cyber security risk which contravenes existing standards and regulations.
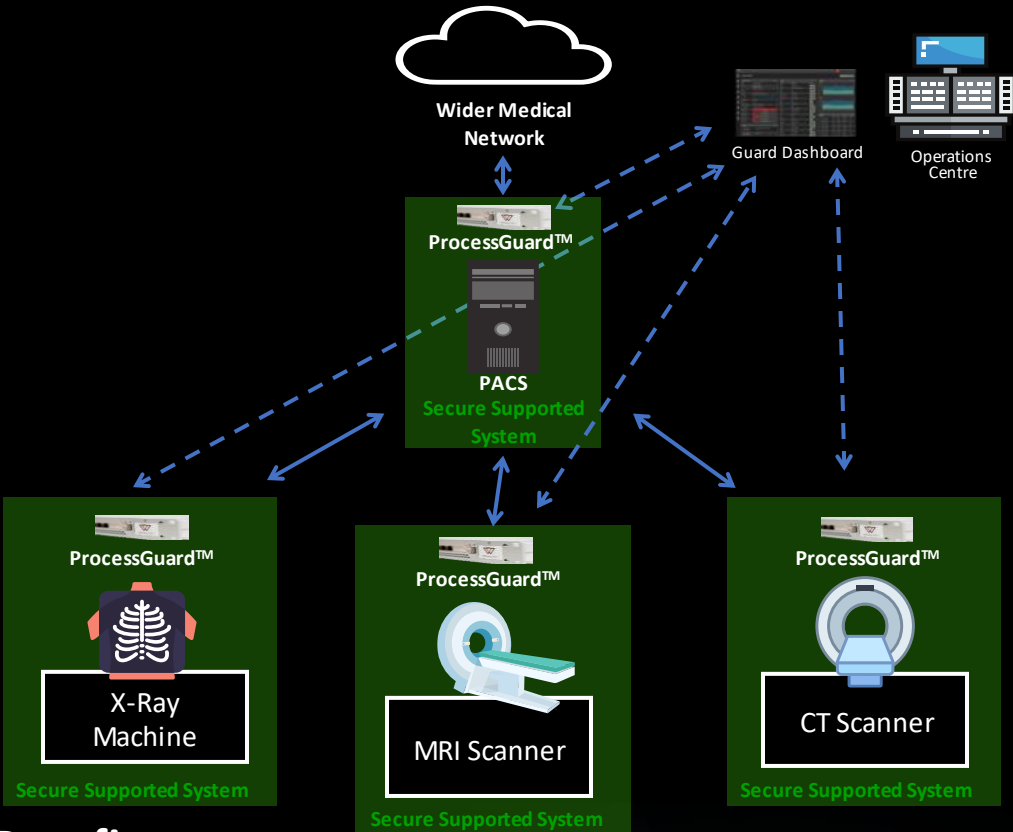
**Client Need**

➢ A solution which secures individual legacy items and groups of devices to comply with standards and regulations, and to extend the 'secure life' of key equipment.

➢ The user interface must be both intuitive and bespoke to the operator, allowing key personnel to understand what is going on and to take control when needed.

➢ The solution should interface seamlessly with other cyber security solutions.

➢ Reach-back must be facilitated so that a higher level of expertise can be applied when needed.

➢ The solution must support standards such as Cyber Essentials (+) and DSPT.

**Solution**

➢ CyberPrism's ProcessGuard™ unit is a next generation segregation device and Unified Threat Manager (UTM) containing our proprietary software, which allows it to work safely within OT networks.

➢ In this deployment small, low-cost ProcessGuard™ units are connected to key legacy devices and the Picture Archiving and Communication System (PACS), forming Secure Supported Systems, where they conduct deep packet inspection of data entering and leaving, alerting and/or blocking traffic if they discover anything potentially harmful.

➢ Intrusion Detection is included to hunt existing malware and provide a second layer of defence against external interference.

➢ A range of intuitive dashboards are supplied so that key personnel receive exactly the information they need.

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# Deployment



Wider Medical Network

Guard Dashboard

Operations Centre

ProcessGuard™

PACS
Secure Supported System

ProcessGuard™

X-Ray Machine

Secure Supported System

ProcessGuard™

MRI Scanner

Secure Supported System

ProcessGuard™

CT Scanner

Secure Supported System

# Benefits

## Operational

▷ Key legacy devices are protected and can run on to the end of their natural life.

▷ Cyber attacks on legacy devices are alerted to operators.

▷ OT is protected by a system that genuinely understands it.

▷ CyberPrism's decades of experience protecting Operational Technology in Critical National Infrastructure can be brought to bear in the event of an incident.

## Financial

▷ Extended operating life defers capital spend on new equipment, at a fraction of the cost of replacement.

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