FUJITSU

Secure asset management & storage

Real-time precision-based asset management improves visibility with secure biometric control of your critical assets

The ability to securely manage and control assets like small arms stocks and make them readily accessible to the correct people is a critical requirement for Defence and National Security. Regardless of whether your assets are stored singularly, in small batches in a locker or in larger stocks like formal Armouries, you need the capability to track and control every asset.

Precision-based secure asset management and monitoring

Fujitsu understands this environment intimately, and our Edgeware software solution enables precision-based, real-time monitoring and secure management of assets. So you can be confident that every asset issued is in the hands of the correct person and can be accurately tracked and traced until it is returned, providing a completely reliable audit trail. Fujitsu delivers the capability to:

- Collect information from devices and sensors monitoring assets, like small arms
- Apply appropriate context to generate meaningful information
- Provide a multitude of secure weapon monitoring/management solutions
- Audit any asset inventory at any time
- Provide a highly secure, ruggedised locker storage facility, if required
- Integrate with existing systems across different security domains.

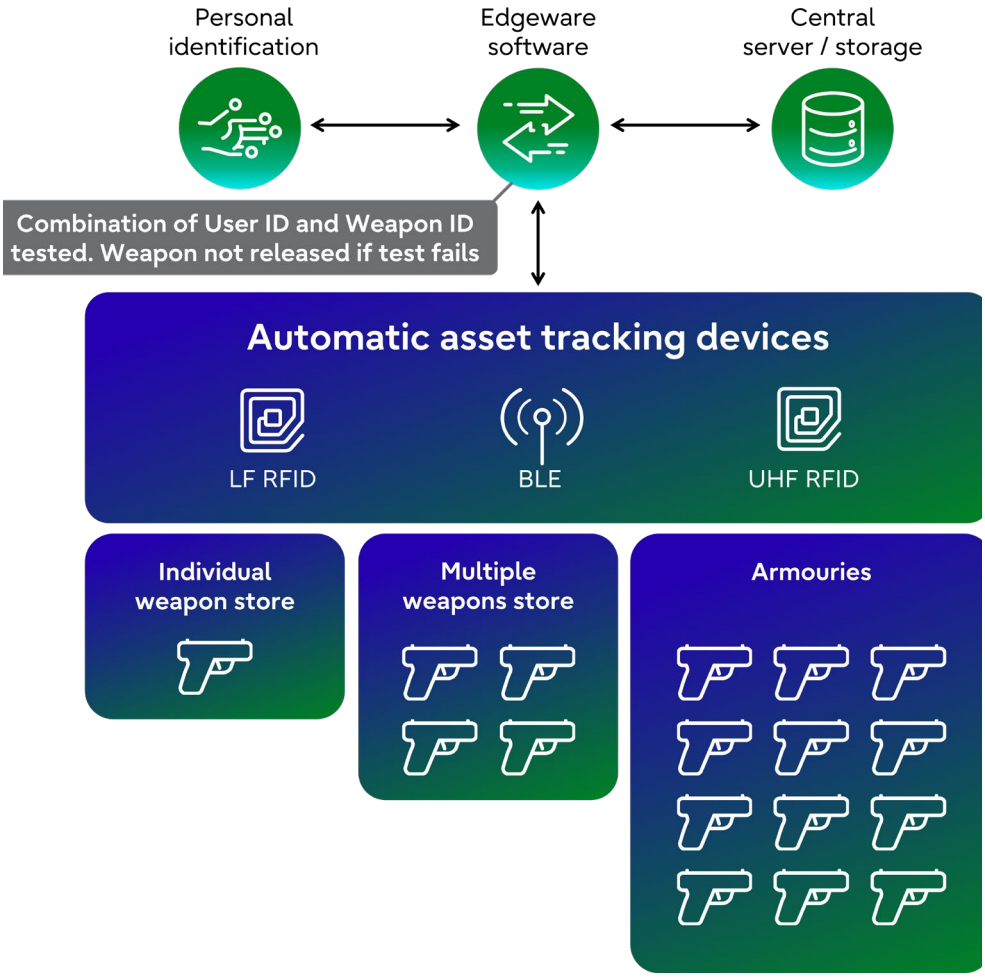
Improved asset visibility delivers greater control

Fujitsu's Edgeware solution seamlessly matches the individual's identity details to their personal access level, as defined by the system administrator. This ensures the right assets are allocated to the correct individuals on production of their identification. In doing so, the management of assets becomes more streamlined and precise, particularly in the allocation of small arms and weapons. Small arms managers have much greater visibility and can perform an audit at any time. They instantly know exactly where every weapon is, to whom it has been issued and where it has been.

Where assets are stored in single storage lockers, only the appropriate locker can be unlocked for access to take or return an asset by individuals on production of their identification. In the case of small arms, where a multiple weapon store or Armoury is used, the weapon taken or returned is validated with the identified user. Once verified, an issue or return record (as appropriate) is generated, providing a complete audit trail for that weapon.

This issue or return activity can be initiated simply by the user, either by presenting their ID card or by using biometric validation, such as palm vein or finger-print recognition. A combination of both can also be used to further strengthen security. The system will then know the range of actions the user is authorised for, based on their current profile, and offer a return and/or issue activity. In the event of an unauthorised person attempting to gain access to a particular locker or store, an alert is generated to prevent the action continuing.

As well as the tracking solution software and devices, Fujitsu can also provide a highly secure, ruggedized and networked locker storage solution, delivered as a fully managed service. The container is highly configurable and can be tailored to a customer's specific requirements, which may be determined by the nature of the assets being stored and traced.



Harnessing data in real-time enables information advantage

Fujitsu's Edgeware suite has been designed to truly enable an organisation's business processes and decision-making. Capturing and sharing error-free data and translating it into insightful information with context delivers real-time intelligence that enables trusted and highly informed decision-making, enabling information advantage.

Edgeware automates data capture from a wide range of Automated Identification Technology (AIT) readers and sensors, like barcodes, RFID and NFC (near-field communication) tags or Internet of Things (IoT) devices that are associated with each individual asset. These magnetic tags are small, discrete, and can be applied to practically any small asset that is considered important enough to be tracked and traced. They can be encrypted to protect sensitive data from compromise as the asset moves through the support chain. Here are just three potential applications of Edgeware solutions:

- **Personnel tracking and weapons association**
  Edgeware technology can be used to enable the accurate tracking of personnel. Deployed troops can be associated with specific weaponry, and the two items tracked simultaneously. If the associated items become separated by a certain distance, an alert can be sent to Command and Control for them to take corrective action. Likewise, contractors working on secure sites can also be tracked to ensure they do not stray from their permitted work area.
- **Audit trail for confidential documentation or evidence**
  The discrete nature of the Edgeware tagging devices enables Intelligence Services to accurately track and trace confidential documentation and supporting evidence. Important documents and items of evidence can be stored in secure lockers and only released to personnel with the requisite identification. This ensures Intelligence Services have the capability to understand precisely who has taken and returned the items, providing a reliable, rigorous audit trail.
- **Effective environmental monitoring of munitions**
  By monitoring the environment of munitions in storage and in transportation it is possible to move from a relatively crude maintenance regime to a more advanced on-condition or even pre-emptive maintenance scheme based on environmental data received from tracking devices. Making use of Fujitsu Edgeware technology enables an asset's environmental history to be compared with predefined exposure limits, allowing the asset to be continually monitored over time.

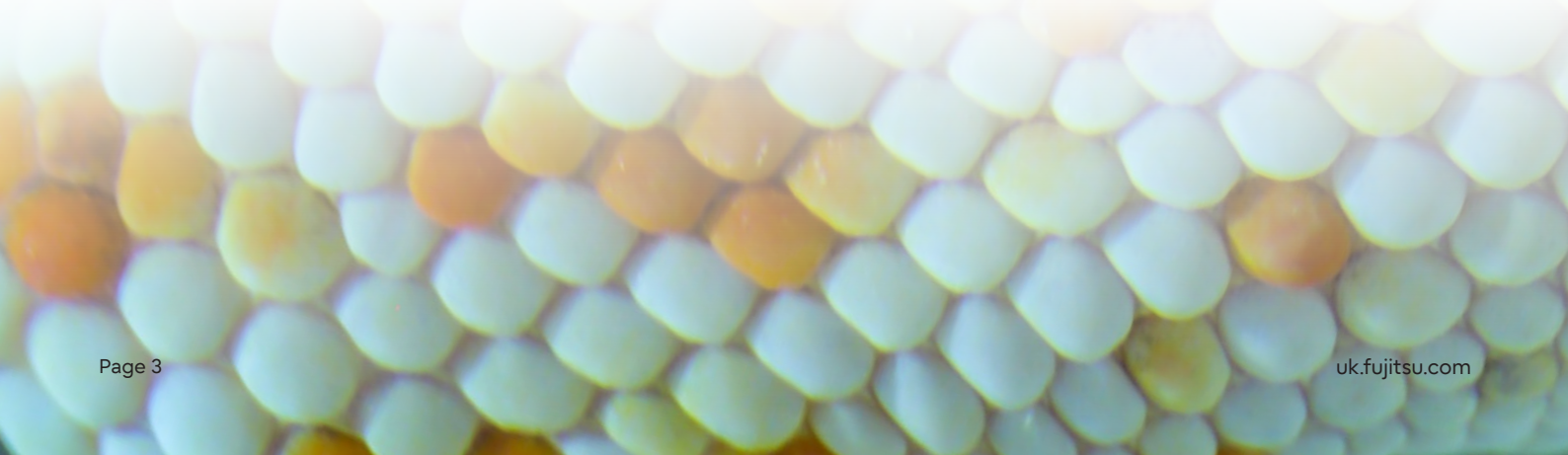
Seamless integration with existing and new technology

Crucially with Edgeware solutions, there is no need for any changes to existing support chain management systems, or back-end infrastructure. The software platform seamlessly integrates existing and new technologies, preserving past investments while enabling new edge applications. This level of connectivity has the potential to exploit the Internet of Things, as more and more devices are connected to the Internet.

Tried and tested around the world

Fujitsu's Edgeware solution has been successfully implemented in over 100 separate projects within the Defence and National Security sector around the world. These applications include the U.S. Department of Defense, DoE, Homeland Security, DLA and all branches of the U.S. Military. Uses of Edgeware in the Defence and National Security sectors are varied, including projects that have tackled challenges in the following areas:

- Logistics and asset tracking
- Personnel tracking, including contractors
- Weapon tracking and association to personnel
- Inventory management processes
- Shipping and receiving processes.



Real-time monitoring enables the secure management and control of your assets

Fujitsu's Edgeware solution provides a single, scalable platform to enable you to easily track and manage any business or assets, delivering the capability to provide real-time accountability and end-to-end visibility:

- Precision-based secure asset management and control ensures the right assets are allocated to the correct individuals on production of the appropriate identification
- Assets can include any items of importance that can be easily tagged using any one of a wide range of Automated Identification Technology (AIT) readers and sensors
- Easily incorporates asset management information into your existing legacy systems and business operations providing accountable visibility
- Easily create business processing rules, trigger notifications and alerts, manage exceptions and generate a wide range of real-time reports
- Provide an end-to-end view of both inbound and outbound transactions within your weapon storage facilities
- Seamlessly integrates existing and new technologies, preserving past investments while enabling new edge applications.

Why Fujitsu in Defence & National Security?

Our world is being disrupted. But together with you, Fujitsu's ambition is to build a brighter, more sustainable future for us all.

We want to work together to navigate this digital disruption collaboratively, and explore solutions to the evolving threats we face today. Together, we can exploit technology that will drive high-impact improvement, transform our digital future, and help to make us more sustainable in every way.

We can do this by harnessing technologies such as AI, machine learning, digital twin, quantum, and high-performance computing. Our vision uses the power of everyone, bringing together our integration capabilities and knowledge in managed services with cognitive and advanced technologies that will drive your digital transformation. By elevating people higher up the value chain allows the smartest ideas to emerge to tackle tomorrow's big challenges today – whatever they may be.

With our technological inspiration and business vision from Japan, we touch the lives of millions of people around the world every day. For over 60 years, we've been working at the highest levels of security demanded by militaries, governments, and industry to ensure the UK's most critical infrastructure operates smoothly, 24/7.

We've continually had to adapt to a changing world, and we will keep evolving in the face of future threats. We are diverse, creative, talented, and different. And we are committed to building new possibilities for everyone. By connecting people, technology and ideas, we are making the world more sustainable by building trust in society through innovation.

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