SOLUTION BRIEF

EVERFOX

Enabling Secure Live ISR Data Sharing

Across Domains & Coalitions

Reforming Defence for Success

Modern defence operations rely on real-time Intelligence, Surveillance, and Reconnaissance (ISR) data to drive decision-making from tactical commanders to strategic leaders.

However, securely sharing live ISR feeds across security domains, networks of different classifications, and with coalition partners (e.g NATO, Five Eyes) presents a major cybersecurity and operational challenge.

Key Risks of ISR Data Sharing

- → Exposure of sensitive mission data
- → Breach of classification boundaries
- → Inability to trust or verify data integrity during transfer
- → Increased attack surface from lost or captured sensors
- → Vulnerability of classified networks to attack

As defence forces shift toward **data centric operations** and **coalition interoperability**, the need for real-time, policy-controlled, and cyber assured ISR data exchange has become mission critical.

A New Era of Threat and Challenge

ISR platforms are no longer just sensors, they are real-time data engines generating massive volumes of intelligence from the air, ground, sea, space, and cyber domains.

With multi-sensor fusion, higher fidelity feeds, and the need for split-second decision-making, the operational tempo has outpaced traditional cybersecurity models.

ISR data is not just intelligence, it's a strategic asset...and a **target**.

Digitally Enabled Collaboration

National security today depends on more than military readiness. It requires seamless, trusted collaboration between government departments, defence forces, and intelligence agencies.

The UK Ministry of Defence (MOD) highlights this as **a strategic priority** in their Strategic Defence Review 2025[1]. Recognising that effective ISR, deterrence, and response depend on the ability to **share sensitive data quickly, securely, and across boundaries.**

Achieving this level of integration is not simply a policy challenge, agencies must look to adopt systems that enable interoperability without weakening control, and ensuring data retains its integrity, even as it moves between organisations.

For the UK and its allies, the ability to share intelligence confidently, within the government and with trusted coalitions such as **NATO, AUKUS** and **Five Eyes**, will define the effectiveness of any collective response.

Protecting that trust, while enabling operational speed, is now one of the most critical challenges in national defence.

Securing The Digital Targeting Web[2]

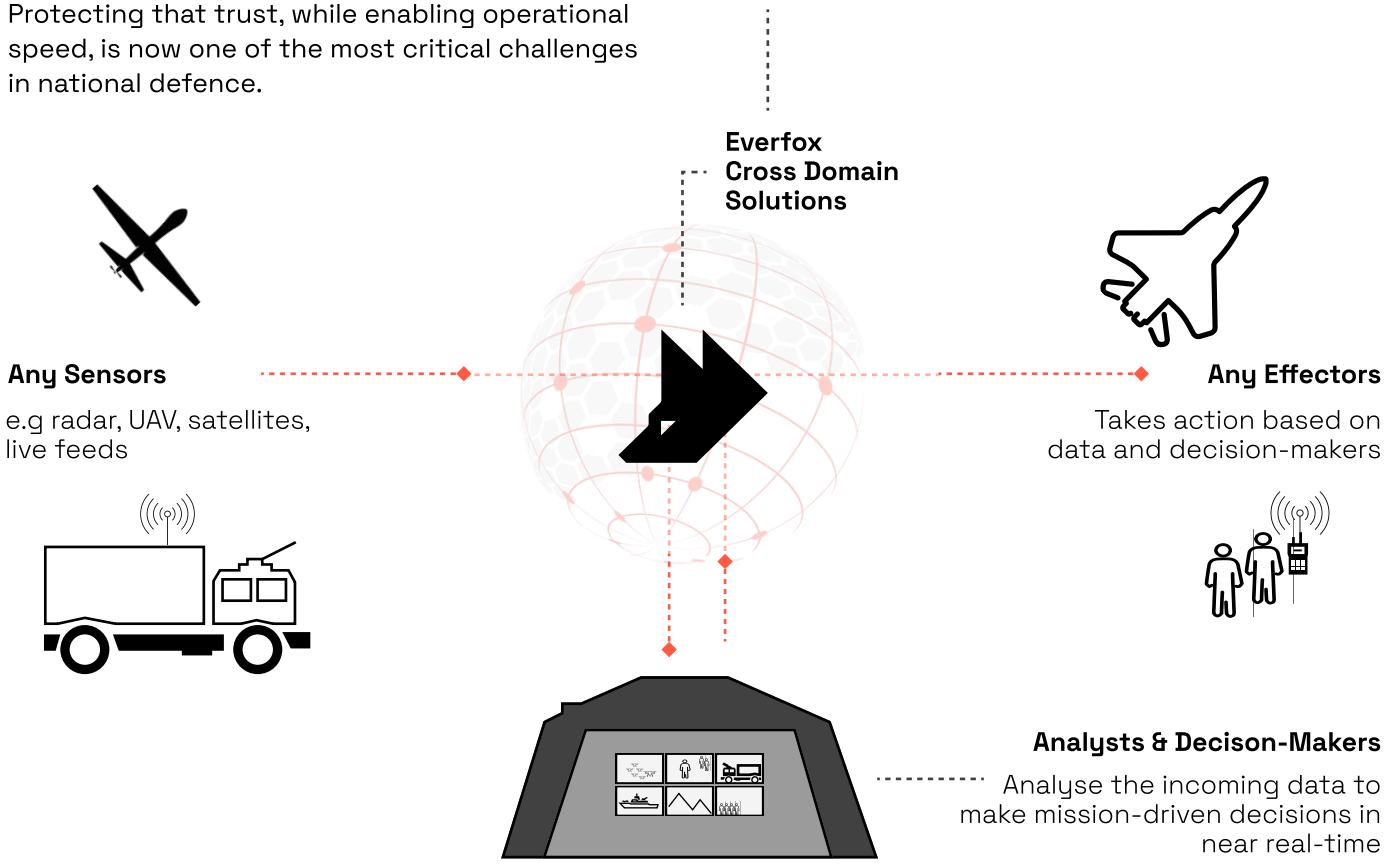
The digital targeting web represents the future of integrated operations. A secure, interoperable ecosystem that connects sensors to decision-makers and accelerates decisions to actions, all at the speed of relevance.

However, as data moves faster and across more domains, it becomes a high-value target. Without the right controls, compromised or untrusted data can mislead operations, delay critical actions, or expose classified systems to risk.

The is where Everfox Cross Domain Solutions enable Governments, Defence, and Intelligence agencies to operate with confidence.

In today's mutli-domain battlefield, ISR data is only valuable if it's available, trusted, and actionable, across systems, classifications, and coalitions.

Everfox Cross Domain Solutions make that possible.



Data-Centric. Policy-Enforced. Cross Domain Ready.

Meeting this challenge demands a shift from infrastructure-based perimeter defence to data-centric protection, where security travels with the ISR data itself, regardless of where it is generated, processed, or shared.

Everfox Cross Domain Solutions applies:

- → Hardware-enforced controls at data ingress and egress
- → Automated policy enforcement to govern access, transformation and flow for a data centric environment
- → Persistent tagging and auditing to help ensure data lineage and integrity
- → Secure interoperability to help enable near real-time ISR collaboration with trusted allies, including NATO partners and Five Eyes

Safeguarding Mission-Critical Data

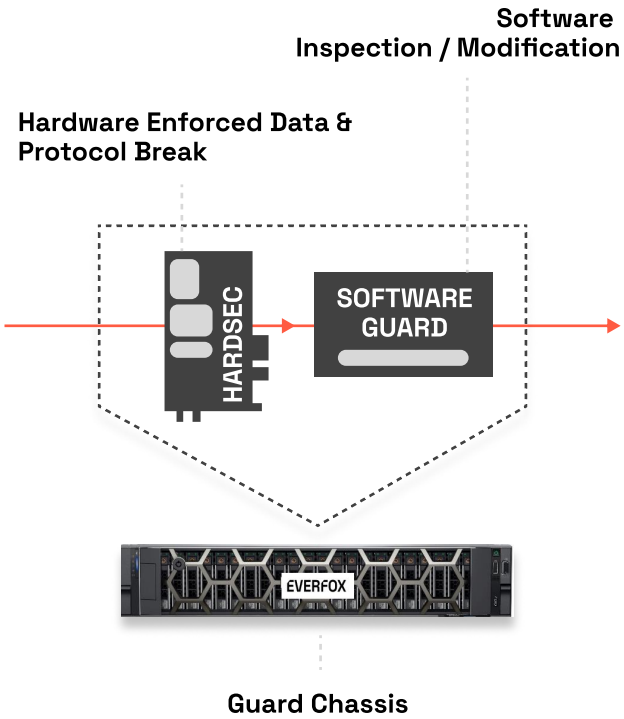
Effective ISR data sharing across operational domains relies on a Cross Domain Solution designed to enforce:

- → One-way or bi-directional flow control
- → Hardware-enforced protocol break using Field Programmable Gate Arrays (FPGAs), combined with software-level inspection & modification
- → Near real-time integrity verification and logging
- → Supporting fast mission data analysis allowing for quick decision-making
- → **For more complex formats** a software appliance would be added either side of the hardware-enforced data break to transform the data before and after verification

Supporting:

- → Streaming video feeds (UAV/ISR sensor data)
- → Tactical data links
- → Data extraction & policy enforcement before Cross Domain Transfer and Access

Built with Zero Trust principles at the core, Everfox CDS enables policy enforcement, data transformation and verification, and mission-specific controls at the tactical edge.



Battlefield Benefits

- **Secure, near real-time sharing of ISR feeds** from tactical edge systems to command centres, across security classifications (sensor-to-decision-maker)
- **Reduced cyber risk exposure** by replacing legacy systems and insecure architecture
- **Delivered operational interoperability** with NATO & Five Eyes partner systems
- **Improved speed to decision** by enabling ISR data to be analysed & actioned in near real-time
- **Protects classified networks** from compromise during transfer (inbound) and protects sensitive ISR data from leakage (outbound)
- **UK sovereign control,** compliance with NCSC, and MoD standards

Discover More

Everfox Cross Domain Solutions enable Governments & Defence Agencies to connect classified networks, accelerate speed to decision and deliver trusted interoperability across domains and allied partners.

About Everfox

Everfox, has been a trailblazer in defense-grade cybersecurity for more than two decades. Leading the way in delivering innovative, high-assurance solutions. But we're just getting started.

Sources

[1] - Strategic Defence Review 2025 - https://assets.publishing.service.gov.uk/media/683d89f181deb72cce2680a5/The_Strategic_Defence_Review_2025_-_Making_Britain_Safer_-_secure_at_home__strong_abroad.pdf

[2] - Digital Targeting Web - (pg 49) https://assets.publishing.service.gov.uk/media/683d89f181deb72cce2680a5/The_Strategic_Defence_Review_2025_-_Making_Britain_Safer_-_secure_at_home__strong_abroad.pdf