EVERFOX

USE CASE

Secure Decision Making at Speed

Connecting sensors, intelligence and command systems across security domains.

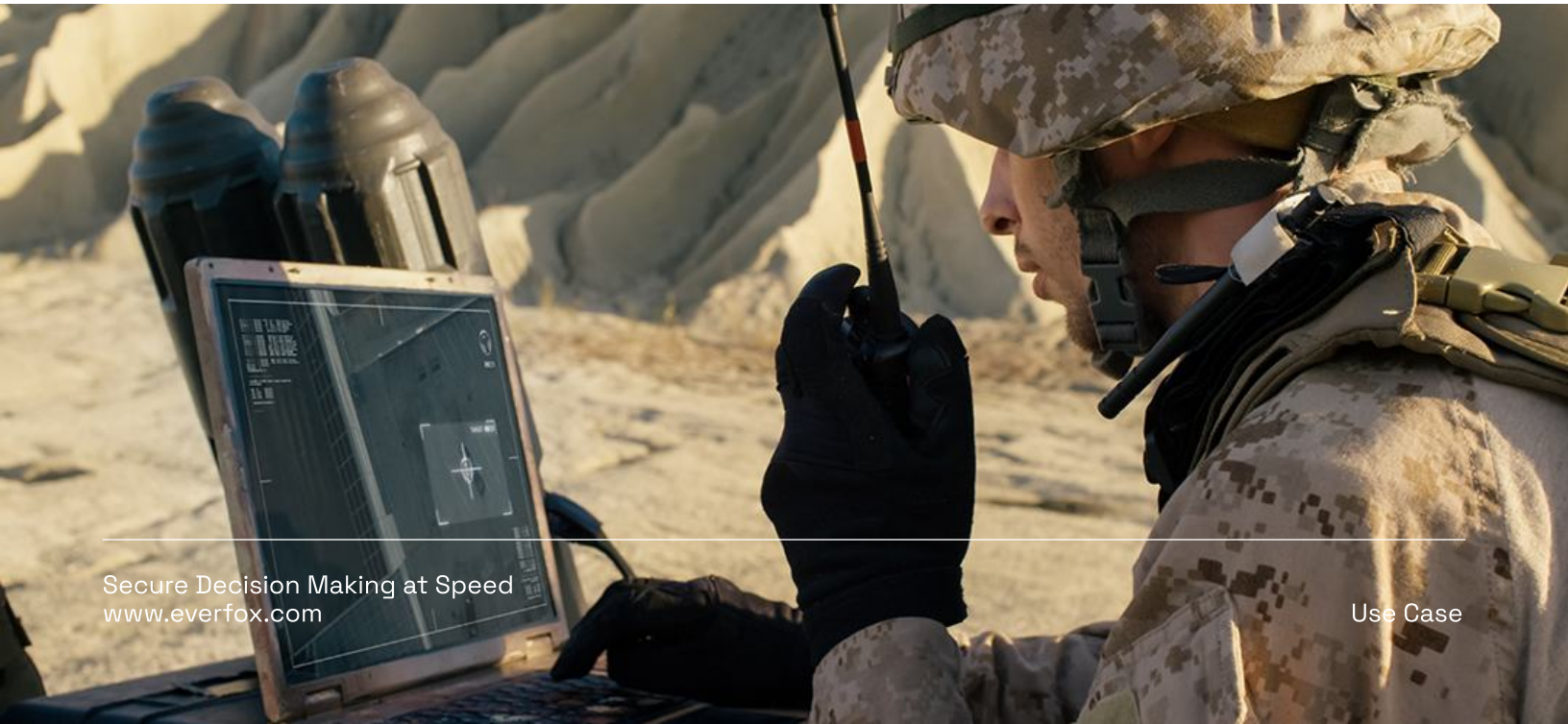
THE MISSION:

Multi-domain command and control depends on information moving between systems that operate at different classification levels and under different national, service and mission-partner controls. When those systems cannot exchange approved data directly, people often bridge the gap by relaying messages, retyping coordinates or moving information between isolated networks.

Those manual hand-offs can delay time-sensitive decisions and increase the risk of incomplete, stale or incorrectly transcribed information. The challenge becomes more acute in distributed operations, where distance, limited connectivity and electronic warfare can restrict access to centralized infrastructure.

> People should make mission decisions, they shouldn't have to serve as the integration layer between disconnected networks.

High-assurance Cross Domain Solutions (CDS) can automate approved data movement while preserving the controls that protect sensitive systems. The result is a connected operational workflow that gives commanders a more current and complete view before they act.



THE OPERATIONAL CHALLENGE:

In the below scenario, a potential threat appears on a classified operational picture. The commander needs additional surveillance to confirm the report, understand the position of friendly forces and determine the appropriate response.

The sensor operates at a lower classification level and cannot communicate directly with the classified intelligence and command environment. Without an integrated Cross Domain workflow, **personnel must carry the request and the resulting information between systems.** Each transfer consumes time and increases the possibility that context will be lost.



The Traditional Workflow

Every human hand-off adds time and the possibility of error.

THREAT IDENTIFIED

An operator sees a potential threat on a classified operational picture.

REQUEST RELAYED

Personnel communicate the surveillance requirement to a team working on another network.

SENSOR TASKED

A second operator enters the request and directs an available sensor toward the area of interest.

FINDINGS RETURNED

Imagery or observations are reviewed on the lower security network and manually reported back.

PICTURES RECONCILED

Teams compare intelligence and operational information that may have been updated at different times.

DECISION MADE

The commander acts using the information that is available, even when parts of it are incomplete or aging.

THE CONNECTED CROSS DOMAIN WORKFLOW

In recent allied military exercises, Everfox high-assurance Cross Domain Solutions connected mission systems across services, security domains and classification levels. The following generalized scenario illustrates the operational pattern without identifying a specific exercise, unit, platform or program.



How the Workflow Changes

Policy controlled data flows connect the mission workflow.

THREAT IDENTIFIED

A potential threat appears within the classified operational picture.

COLLECTION REQUIRED

An authorized operator initiates a request for additional reconnaissance.

SENSOR ENGAGED

The request moves securely to an available sensor operating at a different security level.

DATA SHARED

Approved sensor data is inspected and made available to authorized users in the relevant environments.

VIEWS SYNCHRONIZED

Operational and intelligence information is correlated so decision makers can assess the threat & friendly force disposition.

ACTION AUTHORIZED

The commander selects and tasks an appropriate response using more current and complete information.

Security Remains Part of the Mission Flow

The architecture does not remove the security boundary, it enforces policy as information crosses it. Data can be inspected, filtered and released according to classification, releasability, user authorization, content and mission rules. With audit records giving security teams visibility into what moved, where it went and which policy permitted the transfer.



OPERATIONAL OUTCOMES

Outcome	Value
Shorter Decision Cycle	Increases decision advantage on the battlefield by connecting decision makers to information while it remains operationally relevant.
More Complete Awareness	Improves decision quality by bringing together sensor, intelligence, operations, and C2 data that would otherwise remain fragmented.
Lower Handling Risk	Reduces mission friction and error by replacing manual transfer, reentry, and handling with machine-to-machine workflows.
Secure Coalition Participation	Expands the information and decision network by enabling partners without collapsing security boundaries or exposing information beyond existing authorizations.
Better Use of Available Assets	Improves force utilization by allowing commanders to discover, coordinate, and employ the best available sensors, effects, and capabilities regardless of the domain or security environment in which they reside.
Foundation for AI and Autonomy	Enables machine speed operations by providing AI agents and autonomous systems with governed access to trusted data across security boundaries.

RELEVANCE TO MODERN MISSION ARCHITECTURES

CJADC2, NATO's Multi-Domain Command and Control and Federated Mission Networking depend on data moving across service, classification and national boundaries. Cross Domain requirements therefore need to be designed into the mission architecture from the start.

The same principle applies to AI-enabled and autonomous operations, these systems require data that is current, trusted, attributable and approved for the receiving environment. AI cannot improve decision speed when essential information remains isolated on another network.

MOVE TRUSTED DATA AT MISSION SPEED

From sensors at the tactical edge to command systems and mission partners, Everfox enables trusted tactical data to move securely across security domains, helping teams make faster, more informed decisions.

Explore connectivity for trusted mission data sharing at everfox.com

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