

Observation & Orientation for Multi-Domain Operations with an Intelligent Tactical Fog

MultiPlex.studio provides a tactical solution for operational decision support--collecting, analyzing, and securely classifying multi-domain, disparate intelligence data from sensors, partners, and adversaries and delivering a signal to actionable information cycle of 15 minutes. This delivers against the warfighter need to rapidly observe and orient in response to future technological capabilities and weapons within a contested degraded environment. We leverage Technica's Fog computing architecture for lightweight AI and data transmission in Denied-Degraded, Intermittent or Limited (D-DIL) environments governed by a smart, flexible, automated security policy engine.

- Basil, leveraging blockchain, is a cryptographically secure, distributed security policy system that controls other software, systems, or data access

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- Tactical, multi-domain decision support framework facilitating rapid response to the contention of all domains
- Operates in dynamic battlespace conditions at the edge in austere environments, even with D-DIL connectivity, consistent with future operating spaces
- AI/ML processing via microservices deployed at/near the edge in Fog nodes for rapid information to operational decision makers; feeding into the observe and orient parts of the OODA loop resulting in a quicker and better informed decisions than the adversary
- Enables the convergence of multi-domain effects through a resilient kill mesh/network
- Scalable framework from edge to cloud with multiple levels of data security supported

