MISSION DECISION FABRIC™

Mission Orchestration for Secure AI-Driven Operations

Right Data. Right AI. Right Resource. Right Mission Decision.

An emerging E Cyber7 capability designed to dynamically align mission-relevant data with authorized AI, analytics, compute, security policy, and human expertise as operational priorities change.

THE MISSION PROBLEM

AI has created a new resource-allocation challenge. Modern mission environments span cyber telemetry, threat intelligence, cloud/edge infrastructure, operational data, AI/LLMs, specialized analytics, traditional processing, and human expertise. Premium resources remain finite. MDF is being designed to help answer: **Which information should receive which authorized processing resource - right now?**

PRIORITIZE	OPTIMIZE	ALLOCATE	ADAPT	EXPLAIN
Evaluate eligible information against changing mission priorities and context.	Balance mission value with capacity, cost, latency, availability, and constraints.	Direct eligible workloads toward appropriate AI, analytics, compute, or human resources.	Re-evaluate paths as mission priorities, resources, or conditions change.	Preserve evidence of selection, policy, alternatives, and rationale.

FROM MISSION UNDERSTANDING TO MISSION ORCHESTRATION

MISSION ENVIRONMENT	CGMS™ - UNDERSTAND	MDF™ - DECIDE & ORCHESTRATE	MISSION RESOURCES
Systems • Cloud • Networks • Data	Infrastructure • Dependencies • Risk • Knowledge • Mission Context	Prioritize • Optimize • Allocate • Adapt • Explain	AI • Analytics • Compute • Human

MDF extends E Cyber7's existing technology foundation from mission understanding into dynamic mission decision and resource orchestration.

REPRESENTATIVE MISSION APPLICATIONS

AI & Compute Resource Orchestration Match mission-relevant workloads with authorized premium AI, specialized models, traditional analytics, and lower-cost alternatives.	**Cyber Incident Response** Prioritize cyber events and constrained analytics based on mission consequence, urgency, security policy, and capacity.
Hybrid-Cloud Mission Orchestration Coordinate authorized processing across cloud, self-hosted, edge, and distributed mission environments.	**Cryptographic & PQC Modernization** Apply mission context, dependencies, crypto risk, transition urgency, and constraints to modernization priorities.

MISSION SURGE: ADAPT AS CONDITIONS CHANGE

1	**MISSION PRIORITY CHANGES**	Re-evaluate and reprioritize eligible processing.
2	**PREMIUM CAPACITY CONSTRAINED**	Evaluate authorized alternatives under current conditions.
3	**ANALYTIC RESOURCE UNAVAILABLE**	Invoke an approved fallback path where policy permits.
4	**DECISION EVIDENCE**	Preserve selection, rationale, policy, and alternatives.

BOUNDED AUTONOMY. HUMAN AUTHORITY.

Humans define mission priorities, security boundaries, acceptable risk, resource authority, and override policy. MDF is designed to orchestrate within those approved boundaries.

EXPLORE MISSION DECISION FABRIC™

E Cyber7 welcomes technical discussions around representative mission use cases and measurable prototype objectives.

Request an MDF Technical Capability Briefing | E Cyber7 Technologies, LLC | 240-512-3033 | e.fentry@ecyber7.com

Public capability overview. MDF performance and scale objectives are subject to prototype validation. This document does not imply deployment, sponsorship, endorsement, or approval by any Government agency.