



— EDGE-NATIVE AGENTIC AI · WHITE PAPER

# Agentic AI for the Tactical Edge

SIX AGENTS. ONE RUNTIME. ZERO CLOUD.

JARVIS gives the commander six domain experts in under three seconds — running entirely on-device, air-gapped, with every recommendation explainable and traceable to its source. **The commander decides — not the AI.**

<b>6</b> SPECIALIZED AGENTS	<b>&lt;3</b> sec TO SIX PERSPECTIVES	<b>0</b> cloud FULLY AIR-GAPPED	<b>&lt;1</b> lb EDGE HARDWARE
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— THE PROBLEM

## Decision overload at the edge

Modern operations generate data faster than any human — or any single model — can process. The environments where decisions matter most are exactly where conventional AI fails.

### SECURITY

#### Classified data, public cloud

Commercial models route data through infrastructure that can't safeguard sensitive operations.

### DEPLOYMENT

#### Dark when disconnected

Most large models can't run air-gapped, so capability disappears precisely when it's needed.

ACCURACY

One answer, no cross-check

Hallucinations and unverifiable outputs, with no mechanism to know when the model is wrong.

COGNITIVE LOAD

The burden stays human

Even a good recommendation still leaves the operator to validate it across every domain.

THE SOLUTION

# Phantom Cell — a digital command staff

Six domain-specialized agents analyze the same situation in parallel, apply their own doctrine, and present multiple perspectives, open disagreement, and independently validated courses of action.



KIRK

COMMAND

Synthesizes every input into unified courses of action.



SPOCK

INTELLIGENCE

Fuses ISR, SIGINT, and pattern-of-life into threat assessments.



McCOY

MEDICAL

Vitals, casualty planning, and austere-care protocols.



SCOTTY

LOGISTICS

Supply, readiness, and predictive maintenance.



WORF

SECURITY

Threat and force-protection analysis.



UHURA

COMMUNICATIONS

Bandwidth-limited routing and mesh-network autonomy.

**Multi-agent verification.** When the agents disagree, the commander knows immediately. When they converge, confidence rises — fundamentally different from a single model producing a single answer.

★ FLAGSHIP — THE KNOWLEDGE LAYER

## BRAIN

Every agent grounds its reasoning in BRAIN — JARVIS's on-device, graph-structured knowledge substrate. Rather than flooding the model with whole documents, BRAIN organizes knowledge as a vault of linked notes and recalls by following the connections between them, one to two hops out from the most relevant entry.

- **Role-scoped.** One curated graph; each note's visibility tags decide which agents may draw on it.
- **Traceable.** Recall follows named links between named notes — every recommendation shows exactly which knowledge informed it.
- **Field-built & portable.** Drop in reports and references; AES-256 encrypted, portable as plain text, synchronized across nodes.

The result: a system with **durable, compounding institutional knowledge** — the recall layer the agents reason over.

— ARCHITECTURE

## Three layers, built for the edge

LAYER 01



**AEGIS**

Ruggedized edge hardware — IP67, under one pound, ~30 TOPS at sub-10W, scaling to NVIDIA-class compute up to ~2,070 TFLOPS on AEGIS THOR.

LAYER 02



**AUGUR**

The agentic AI runtime — on-device LLM inference with retrieval-augmented generation; runs and synthesizes the six agents into one inspectable recommendation.

LAYER 03

**ATLAS**

Mesh orchestration — coordinates fleets of edge nodes, maintains shared awareness, and synchronizes when connectivity returns.

**BRAIN** — the knowledge layer the agents query for recall, feeding the runtime.

— TRUSTED BY DESIGN

## Classified-ready, human in the loop

Classified insight is never folded into model weights — it stays discrete. A human stays in the loop at every step.

**Air-gapped** · zero cloud

**AES-256** at rest

**TLS 1.2+** in transit

Zero-trust access

**NIST 800-171**

MOSA-compliant

TAK-compatible

JADC2 · Maven

— TRACTION

## Proven team, real momentum

### Proven team

Multi-program defense-AI track record

### NVIDIA

Inception Partner

### Awardable

DoD Tradewinds Marketplace

### C5ISR

U.S. Army funding line

### TRL 6

Validated in ISR & logistics pilots, advancing to TRL 8

### 4 services

Engaged across SOCOM, Army, Navy, Air Force

— DEPLOY WITHOUT LIMITS

# Turn chaos into confidence.

JARVIS is ready for pilot partners and transition sponsors. Bring us your hardest disconnected, classified, decision-under-pressure problem.

[REQUEST A BRIEFING](#)

 JARVIS Defense LLC

[info@jarvisdefense.ai](mailto:info@jarvisdefense.ai) · [jarvisdefense.ai](https://jarvisdefense.ai)

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One runtime.  
Zero cloud.