

Defence & Dual-Use Capability Overview

A mature Canadian AI technology foundation for partnership, integration and mission-oriented development.

CANADIAN AI TECHNOLOGY	REAL-TIME DECISIONING	PRIVACY-BY-DESIGN
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DCTS is a Canadian-owned and Canadian-controlled technology company with more than a decade of AI development history. Its proprietary technology base combines real-time decisioning, privacy-conscious architecture, integration capability and substantial accumulated software engineering.

Company & Technology Foundation

DCTS has developed AI-driven technology through years of engineering, commercial deployment and integration work. The underlying platform was originally built for real-time digital intelligence and personalization, creating reusable capabilities relevant to decision intelligence and other high-assurance applications.

- Approximately 94,000 lines of source code across six repositories.
- Approximately 58,000 engineering hours and roughly seven years of active engineering development.
- Real-time architecture with historical performance measured at sub-40-millisecond response at the load-balancer layer.
- API, script and platform-integration approaches designed to work with existing technology environments.
- Canadian-owned source code, architecture, documentation and proprietary know-how.

Capabilities Relevant to Defence & Dual-Use

Real-Time Decisioning

The technology is designed to ingest signals, apply decision logic and models, and return relevant outputs in real time. This foundation may be adaptable to operational decision support, prioritization, information triage and other data-driven workflows.

Explainability & Auditability

DCTS's emerging Governance & Decision Intelligence direction emphasizes making AI-assisted decisions more transparent, reviewable and accountable, including the ability to retain decision context and support human oversight.

Privacy-Conscious Architecture

The platform's commercial heritage emphasized anonymous behavioural signals rather than making personally identifiable information the foundation of the experience. This provides a useful architectural starting point for environments where data minimization and responsible AI are important.

Integration & Embedded Potential

Existing API and integration approaches support a partnership model in which DCTS technology could be embedded into a larger contractor, integrator or mission solution rather than requiring replacement of an existing stack.

Potential Application Areas

Subject to customer validation, technical scoping, security requirements and partner input, potential areas include:

- Explainable AI-assisted decision support and prioritization.
- Information triage and real-time relevance scoring.
- Human-in-the-loop decision workflows.
- Audit trails and decision transparency for AI-enabled systems.
- Embedded/OEM decision intelligence within larger defence or public-safety platforms.
- Cyber-resilience and operational-awareness use cases where rapid, explainable signal processing is valuable.

Partnership Model

DCTS is particularly interested in pathways where its existing technology provides a head start and a defence prime, integrator, funded challenge or customer-backed program supplies the domain requirements and route to deployment.

- Technology integration or subcontracting.
- Joint solution development and funded validation.
- Embedded/OEM licensing.
- Strategic technology partnership.
- Commercialization of existing Canadian AI intellectual property.

Important positioning note: References to defence, dual-use and high-assurance applications describe potential applications of DCTS's existing technology foundation. They should not be interpreted as claims of current defence deployment, certification or security clearance.