

# BleedIO Tech — IP Milestone Timeline

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### Patent Portfolio, Invention Pipeline & Compliance Roadmap

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### Patent Portfolio Overview

BleedIO has two provisional patent applications on file, one registered copyright, and a pipeline of eight invention disclosures covering the company’s core technical innovations.

Asset	Filing Date	Identifier	Status	Coverage
“Network in Advance” Pre-Provisioning	May 12, 2025	DN1855 / #63/804,380	<b>Patent Pending</b>	Rapid deployment methodology for pre-provisioned mesh networks — critical for fire, defense, and contested environments where the network must exist the moment teams arrive
Mesh Routing & Device Management	Oct 16, 2025	DN1856+ series	<b>Patent Pending</b>	Mesh routing topology, device identity management, multi-tenant orchestration
Wi-Fi Mesh Gateway Code 8 Invention Disclosures	Mar 17, 2025 In pipeline	DN1892 / #1-14883902841 DN1856–DN1860, DN1875–DN1878	<b>Copyright Registered</b> Drafting	Gateway integration firmware stack Edge AI models, identity management, BLE CS positioning fusion, ambient sensing, drone swarm routing, asset site-switching, cyber-resilient mesh, fast-deploy networks

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### Upcoming IP Milestones

Date	Milestone	Significance
<b>May 2026</b>	Non-provisional filing — Patent #1 (“Network in Advance”, #63/804,380)	Converts provisional to full utility patent; locks in May 2025 priority date globally
<b>Oct 2026</b>	Non-provisional filing — Patent #2 (Mesh routing & device management)	Converts provisional; expands claims around multi-tenant mesh orchestration
<b>2026</b>	Villanova University math model collaboration	Academic validation of RTLS positioning algorithms; strengthens defensibility and supports peer-reviewed publication
<b>2026–2027</b>	3–5 additional provisional filings from invention pipeline	Broaden claims across Edge AI inference, BLE Channel Sounding fusion, ambient sensing
<b>2027</b>	SOC 2 Type I audit	Required threshold for enterprise procurement at Fortune 500 and government accounts

## Invention Disclosure Pipeline

The following invention disclosures are in active development and will enter the patent filing pipeline through 2026–2027:

Disclosure	Area	Commercial Relevance
<b>DN1856</b> — Interoperability Algorithms	Cross-manufacturer DRAW Mesh communication	Enables multi-vendor mesh deployments; expands addressable hardware base
<b>DN1857</b> — Energy Optimization Protocols	Battery life and efficiency	Critical for firefighter badge longevity in multi-hour deployments
<b>DN1858</b> — Security Enhancements	Encryption, authentication, access control	Enterprise and DoD compliance requirement; differentiates from commodity BLE
<b>DN1859</b> — Real-Time Monitoring & Management	Dashboard, diagnostics, alerting	SaaS platform core; powers multi-tenant management layer
<b>DN1860</b> — Integration Frameworks	Unified device integration toolkits	OEM and channel partner enablement
<b>DN1875</b> — Modular Self-Organized Drone Swarm Networks	Autonomous mesh topology for uncrewed systems	netMESH / defense; directly addresses DoD attritable drone requirement
<b>DN1876</b> — Asset Management with Location Awareness and Site Switching	Multi-site asset tracking	locMESH enterprise horizontal; manufacturing, logistics
<b>DN1877</b> — Cyber Resilient Closed Double-Encrypted Mesh Networks	Defense-grade network security	Required for DoD / classified environment deployments
<b>DN1878</b> — Fast Response Ready-to-Deploy Networks	Rapid field deployment	Fire, EMS, emergency management — natural extension of “Network in Advance”

## Regulatory & Compliance Status

Item	Status	Notes
<b>CAGE Code</b>	Registered	Required for U.S. government contracting
<b>SAM / UEI Registration</b>	Active	System for Award Management — federal procurement readiness
<b>DUNS Number</b>	Registered	Required for SBIR/STTR applications
<b>PA Business Entity Filing EIN</b>	Acknowledged Issued	State-level operating compliance Federal tax identification
<b>SBIR Eligibility</b>	Ready	SBIR/STTR pipeline reopening upon Presidential signature of S.3971 (passed both chambers, March 2026)
<b>SOC 2 Type I</b>	Planned 2027	Enterprise data security certification

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## IP Strategy Summary

**Protect the deployment methodology.** The “Network in Advance” patent covers *how* BleedIO deploys a mesh network before entering a target environment — a method that competitors cannot easily design around without rebuilding their architecture from scratch.

**Patent the platform, not just the protocol.** The eight invention disclosures target the orchestration layer, edge AI inference pipeline, and positioning fusion algorithms — not the underlying BLE standard. This strategy creates IP that is defensible regardless of which hardware platform runs the firmware.

**Trade secrets as the deepest moat.** Three years of production deployments in Chevron, fire departments, and maritime environments have produced RF propagation models, self-healing parameter sets, and environmental calibration data that cannot be replicated from published research. These are maintained as trade secrets.

**Academic validation accelerates trust.** The Villanova University math model collaboration (2026) will produce peer-reviewed validation of BleedIO’s RTLS positioning algorithms — converting proprietary claims into third-party verified science.

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*BleedIO Tech, Inc. | 851 Duportail Rd, 2nd Floor, Chesterbrook, PA 19087 | stan@bleedio.com Patent Pending — U.S. Provisional Application #63/804,380 | All rights reserved.*