

# BleedIO Tech Platform Capabilities

locMESH + netMESH

BLEEDIO TECH

bleedio.com | connect@bleedio.com | (484) 238-0867

## PLATFORM PRODUCTS

locMESH The commercial entry point — live and generating revenue <b>● PRODUCTION / IN MARKET</b>	netMESH The long-term category-defining platform <b>● IN DEVELOPMENT / PATENT PENDING</b>
<b>CORE CAPABILITIES</b> <ul style="list-style-type: none"><li>▶ Real-time asset tracking &amp; location awareness</li><li>▶ BLE device monitoring &amp; telemetry (1-second WebSocket stream)</li><li>▶ Zone-based operational alerts &amp; workflows</li><li>▶ Occupancy, dwell-time, and foot-traffic analytics</li><li>▶ Multi-tenant enterprise dashboard (web console)</li><li>▶ Historical replay &amp; CSV data export</li><li>▶ Fleet &amp; device lifecycle management</li><li>▶ Multi-floor coordinate system</li></ul> <b>KEY ADVANTAGES</b> <ul style="list-style-type: none"><li>✓ Deployable today — no waiting for future tech</li><li>✓ Active pilots generating revenue (Chevron, Snap-on)</li><li>✓ Proves deployment capability to investors</li><li>✓ Bridge to full netMESH platform</li></ul>	<b>CORE CAPABILITIES</b> <ul style="list-style-type: none"><li>▶ Decentralized, self-healing BLE Mesh network</li><li>▶ Device-to-device routing (no hub/gateway required)</li><li>▶ Store-and-forward offline operation</li><li>▶ Edge AI &amp; anomaly detection</li><li>▶ AES-256 encryption with key rotation</li><li>▶ Up to 32,767 nodes per mesh</li><li>▶ “Network in Advance” pre-provisioning (patent pending)</li><li>▶ Hardware-agnostic (Nordic, Silicon Labs, STMicro, TI)</li></ul> <b>KEY ADVANTAGES</b> <ul style="list-style-type: none"><li>✓ No single point of failure</li><li>✓ Works without internet connectivity</li><li>✓ Self-healing in &lt;3 seconds</li><li>✓ &lt;1% packet loss under stress</li><li>✓ Inverse scaling: more nodes = better performance</li><li>✓ Open standard (BLE Mesh SIG)</li></ul>

## UNIFIED PLATFORM ARCHITECTURE

<b>Connectivity</b> netMESH	<b>Positioning</b> locMESH	<b>Identity</b> Secure Identity	<b>Edge Intelligence</b> On-device AI	<b>Cloud Governance</b> SaaS Console
--------------------------------	-------------------------------	------------------------------------	--	---

## PERFORMANCE KPIS

<b>32,767</b> MAX NODES	<b>&lt;3s</b> RECONVERGENCE	<b>&lt;1%</b> PACKET LOSS	<b>&lt;100ms</b> EDGE LATENCY	<b>&lt;1.5m</b> INDOOR ACCURACY	<b>&gt;99.9%</b> UPTIME
----------------------------	--------------------------------	------------------------------	----------------------------------	------------------------------------	----------------------------

## TARGET MARKETS

Public Safety Industrial Maritime Smart Buildings Government Motorsport