BleedIO Tech locMESH Data Sheet

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Investor- and customer-safe product data sheet for BleedIO's commercially available BLE location-awareness and monitoring platform.

Product snapshot

locMESH is BleedIO Tech's commercially available location-awareness and monitoring platform. It is built around BLE readers, BLE beacons, passive BLE detection, and a centralized management layer to help customers track assets, detect presence, monitor movement, and generate operational alerts without requiring heavy new infrastructure.

The product is designed for facilities, campuses, logistics yards, municipal environments, and other indoor or near-indoor operating environments where customers want practical telemetry, asset visibility, and event awareness today. In the current company story, locMESH is the commercial wedge: it is deployable now, supports pilots and revenue, and gives BleedIO real operating feedback while netMESH continues to mature as the longer-term decentralized platform.

Core use cases

- **Asset tracking:** monitor the location and movement of tagged assets across defined zones.
- **Presence detection:** detect nearby devices and measure movement through monitored spaces.
- **Operational alerts:** trigger notifications for zone crossings, unexpected movement, separation events, or environmental thresholds.
- **Behavioral and foot-traffic analytics:** turn passive BLE detections into occupancy, dwell-time, and activity insights.
- **Deployment learning:** give customers a practical starting point for site-level monitoring before a larger resilient-network deployment.

System components

Edge hardware

- BLE readers for real-time beacon detection
- BLE beacons and compatible BLE devices for tracked assets and tagged workflows
- Optional onboard sensor context depending on device type and deployment design

Software layer

- Cloud-based or centrally managed web console
- dashboards, heatmaps, alerts, and analytics
- data export and API access for integration into customer workflows

Deployment model

locMESH is a centralized product, not the future netMESH decentralized architecture. Current deployments use readers and beacon signals to collect and process location and presence data, then forward that data into the management and analytics layer over standard network paths such as Wi-Fi or Ethernet. This makes the product easier to deploy today while still fitting into BleedIO's broader long-term platform roadmap.

Technical highlights

- BLE-based location awareness and device detection
- support for registered and unregistered BLE signal detection depending on workflow
- real-time visibility into movement, proximity, and zone activity
- integration-ready outputs through APIs and export tools
- practical fit for pilot deployments, site monitoring, and operational analytics
- compatibility with existing backend workflows through standard IP-connected infrastructure

Why it matters

locMESH gives BleedIO a real product in market rather than a purely future-looking platform story. It helps customers solve monitoring and visibility problems now, and it helps the company prove deployment capability, generate current revenue, and build customer relationships around real operational use cases.

For investors, that is the key point: locMESH is the present-tense commercial product, while netMESH is the larger long-term platform opportunity.

Source references

- references/BleedIO Tech locMESH Internal Overview.docx
- references/BleedIO Tech locMESH Offer.docx