MALNUS

Location and communication of emergency services inside buildings without existing infrastructure

Malnus develops advanced location and communication technology to help rescuers work more safely and efficiently. Our solution enables precise location tracking in buildings even where conventional technology fails – through thick walls, smoke or underground spaces. By combining precision sensors and a resilient multi-band local area network, Malnus can reliably deliver data even in the harshest conditions. In addition, the system is designed to integrate easily into existing equipment and is affordable.

Unique Selling Points:

- By combining multiple technologies and a mesh network, we keep the inertial navigation error below 0.5% for the entire intervention/mission.
- Each device also serves as a router, so the whole network is self-repairing and keeps the connection even where conventional radios fail to work.
- We focus on a price that European emergency services can afford – without compromising on performance that outperforms even much more expensive foreign solutions.

S1/2025 B2B B2G

malnus.cz

Product

Communication Platform / Indoor Localization

Technology readiness

Development

Proof of concept

▶ Prototype

First implementation

Extensive implementation