

SecureFind™

Combat Rescue Beacon

For modern military or civilian government forces, “no one left behind” has become an imperative, especially in theaters where adversaries do not follow the rules.

While Combat Search & Rescue technology is mature for military aircrews, there is not yet any dedicated solution for conventional or special ground forces.

SecureFind provides forces that are exposed to isolation or capture – with an **affordable, individual**, Combat Rescue Beacon solution. In training or operation situations, SecureFind ensures transmission of **distress messages**, including **location** information, to trigger and optimize rescue operations.

SecureFind is a system, that includes:

- **Low** Size, Weight, and Power (**SWaP**), in a **rugged, easy to use** (two buttons) beacon
- A tablet terminal & receiver to provide programming, display, log and guidance capabilities

SecureFind supports various operation modes, to adapt to various types of missions and contexts. A fully open mode, with Over the Horizon transmission capability is available for training situations. Discreet and covert modes are available with Line of Sight capability and/or Over the Horizon transmission, and **low interception risk**. Some modes provide the ability to locate the beacon in **GNSS denied** environments.

The SecureFind Combat Rescue Beacon enables transmissions of several **pre-defined messages**, including distress messages, as well as logistics or waypoint report messages. All messages include location.

Following detection, decoding and logging of the messages the SecureFind terminal displays the beacon's location on a map, and provides navigation information towards the beacon. The SecureFind



General Information

Nominal Dimensions	Maximum 2"x1.5"x4.5"
Weight	<12 oz
Uses Standard Power	2 x CR123A
Operating Temperature	-10F to 131F (-23C to +55C)

terminal can also be connected to a C4I system to share received messages.

With its Software Defined Radio based design, SecureFind waveforms and messages can be efficiently customized to meet specific requirements. Interfaces with C2 can also be customized.

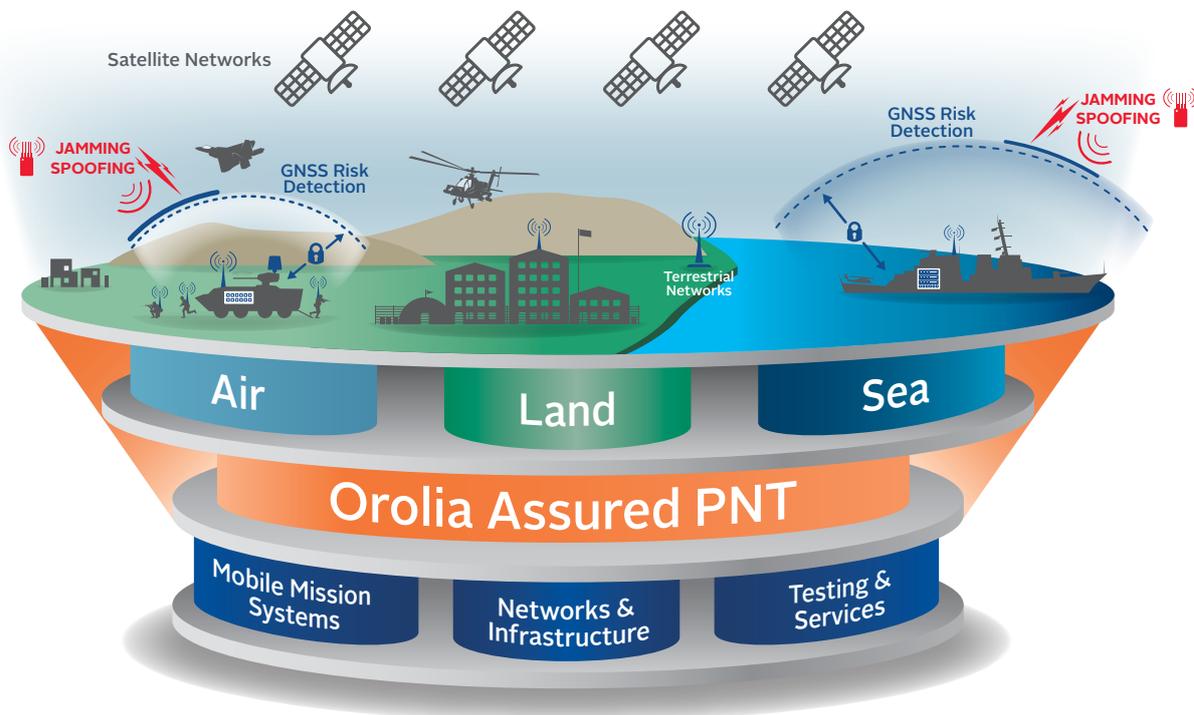
Orovia's Unique Approach to Resilient PNT

Military forces require continuous access to trusted PNT resources under all conditions. Critical infrastructure such as communications and power grids, financial networks and transportation systems also depend on GPS technology, yet vulnerabilities give adversaries the opportunity to deny access to navigation and timing data.

Orovia delivers Resilient PNT capabilities for warfighters and commercial users through technologies that detect, mitigate and help prevent threats such as interference, jamming and spoofing.

To best support military Resilient PNT requirements, Orovia's solutions are flexible, scalable and configurable based on required features, performance and budget considerations, such as:

- Multiple navigation and timing sensors integrated into a form factor small and light enough to fit in the palm of a hand
- Highly accurate oscillators and micro atomic clocks that operate in extreme environments to provide hold-over timing in the absence of GPS
- Anti-jamming/anti-spoofing detection algorithms that know when to trust GPS data
- Alternate sources of robust, resilient and encrypted satellite-based PNT data
- Advanced simulation capabilities that eliminate Time-To-First-Fix for dismounted warfighters
- Military combat rescue devices



About Orovia

Orovia is the world leader in resilient positioning, navigation and timing (PNT) solutions that improve the reliability, performance and safety of critical, remote or high-risk operations. With locations in more than 100 countries, Orovia provides virtually failsafe GPS/GNSS and PNT solutions to support government and commercial applications worldwide.