

PNT Defence Capabilities

Steatite is a major UK provider of Orolia's industry leading technology. For over 50 years, Orolia has been supplying Resilient Position, Navigation and Timing (PNT) solutions across multiple mission critical programs for defence and government. As a global leader in PNT technologies, Orolia understands the need to maintain continuous operations in harsh and contested environments, and they are committed to ensuring that military forces have precise, reliable and rugged PNT solutions.

Resilient Timing

Orolia has been at the forefront of the industry's most advanced timing solutions, with the first and longest standing DISA approved Timing & Sync Device for defence network security and interoperability.

Interference Detection & Mitigation (IDM)

With the growing threat to GPS signal integrity from adversarial jamming and spoofing, Interference Detection and Mitigation (IDM) has become a critical requirement for electronic warfare countermeasures.

GNSS Simulations

Resilient PNT includes vulnerability testing with robust GPS simulation solutions, to ensure that warfighters are prepared to respond confidently to GPS disruptions on the battlefield for mission continuity.

Capabilities Statement

- Steatite and Orolia are experienced contractors for many leading businesses and government agencies across the UK, Europe and globally, with thousands of PNT devices deployed across key sectors including defence, security, energy, commerce, justice, and transportation.
- Orolia has contributed as a subcontractor to all major primes as a core Resilient PNT expert.
- Applications include:
 - Critical Infrastructure
 - Intelligence, Surveillance and Reconnaissance (ISR)
 - Electronic Warfare & Anti-Jamming/Spoofing
 - Communications Networks
 - First Responder Systems
- First DISA Approved Timing and Synchronization Device on Department of Defence Information Network (DoDIN) Approved Products List (APL).

Resilient Network Timing and Mission Sync ... Even in GPS Denied Environments



Airborne Applications

- Data Link Network
- Terrestrial & Satellite Comm.
- ISR, Electronic Warfare
- Deployable Air Traffic Control

Ground Applications

- Missile Defense, Ground Radar
- Mobile Network & Test Range Sync
- Countermeasure Systems Sync
- Critical Infrastructure Networks

Sea Applications

- Positioning & Navigation
- Comm. Networks, Radar Systems
- Oceanographic Sensor Sync
- Submarine Master Clock

Resilient PNT

Resilient Timing

Orolia's resilient timing solutions include NTP appliances and PTP (IEEE-1588) servers with enhanced resiliency provided by alternative signals and anti-jamming technologies. We are known for delivering highly configurable, rugged solutions for stationary and mobile applications, and partnering with our customers to provide the most cost-effective and easy-to-use solutions for demanding requirements.



Interference Detection & Mitigation (IDM)

Navigation warfare (NAVWAR) is an increasing area of focus for military missions, and it includes a wide range of Electronic Warfare strategies. One of the fastest-growing threats worldwide is GPS/ GNSS signal jamming and spoofing. Defence technology must be able to withstand and counter threats to continuous operations.



GNSS Simulations

Orolia's GNSS Testing and Simulation Solutions deliver the confidence of knowing how your critical system will perform across a wide variety of GPS/GNSS signal and PNT data limitations, outages, interference and environmental factors.



Orolia's Resilient PNT solutions improve the reliability, performance and safety of critical, remote or high-risk operations, even in GPS/GNSS denied environments. With a presence in more than 100 countries, Orolia provides virtually fail-safe GNSS and PNT solutions for military and commercial applications worldwide. Steatite has been Orolia's UK partner for many years. Our team has exceptional technical and product knowledge positioning us as your first port of call for specific UK PNT applications.

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