



PRESS RELEASE

Orolia and Telko Collaborate on First ECDIS with Navigational Cyber Security

~ 3-4 Sept 2019, Donsö, stand B04

3 Sept 2019 Sophia Antipolis, France: Orolia and Telko are collaborating to create the world's first ECDIS solution that can detect and mitigate cyber-attacks on navigation systems on vessels. Together, they will showcase this new functionality on Telkos' TECDIS system, with the addition of Orolia's SecureSync Maritime Navigation Protection System (M-SecureSync), at this year's Donso event in Sweden.

As the 2021 deadline for the International Maritime Organisation's '*Maritime Cyber Risk Management in Safety Management Systems*' mandate draws nearer, it is important that the entire vessel management ecosystem, from port coordination to critical bridge systems, includes protection of navigation. This is done by verifying the source and validity of position and timing data, as well as mitigating false data.



Orolia's M-SecureSync employs various technologies to detect and resist GNSS jamming and spoofing attacks and alert the bridge to potential discrepancies in the navigation signals. It offers multi-layered protection that will be integrated into Telko's TECDIS, Telko Electronic Chart Display and Information System. The system adds to existing GNSS reliability information by warning the user of compromised data by providing the current GNSS jamming and spoofing detection state, showing either "No interference", "Jamming detected", "Spoofing detected" or "Jamming and Spoofing" and stores it for later analysis.

Martin Ekholm, Vice President Sales, Telko International AB explains, "We are excited to bring the first ECDIS system with navigation cyber security functionality to our customers,

this means that they can rely on their critical GNSS signals for safer navigation. Telko has been supporting Navigation Systems for the North Sea fleet for the last 25 years, with more than 6,000 installations.”

“Cyber-attacks can come in many guises and as the threats become increasingly sophisticated, poor cyber security could compromise commercial vessels’ safety through interference with navigation accuracy,” said Chris Loizou, Vice President Maritime Business Line at Orolia. “We are dedicated to product innovation and developing state-of-the-art technologies, and through this collaboration with Telko we will continue to keep people safe while navigating the world’s waterways with the world’s first ECDIS with Navigation Cyber Security functionality.”

For more information about Orolia’s SecureSync Maritime Navigation Protection System (M-SecureSync), please visit: www.oriolamaritime.com/products/securesync/

For more information visit Telko and Orolia Maritime on stand B04 at Donso or visit <https://telko.no/> www.oriolamaritime.com.

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Notes to Editors

About Orolia Maritime

Orolia Maritime is the Marine arm of Orolia’s leading Resilient Positioning, Navigation and Timing (PNT) solutions. They offer trusted Fleet Management, Data Capture & Analytics, Vessel Emergency Readiness & Response and Navigation Safety solutions via the globally recognised maritime brands of McMurdo, Netwave and Kannad. www.oriolamaritime.com

About Telko International AB

Based in the Færder Technology Park on the east coast of Norway, Telko have delivered more than 6.000 Electronic Chart Display and Information Systems (TECDIS) worldwide. Specialising in supporting North Sea vessels for over 25 years, their ECS and TECDIS user interface is considered the North Sea standard by navigators.

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