

# Title Abstract: Development and trials of the concept of new generation decision support system in VTS

**Topic: Anomaly detection and decision support**

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Dmitry Rostopshin has been working in Wärtsilä (formerly Transas) since 2000. He started his career from testing engineer in development department, worked several years as project installation engineer and get back to research and development as product manager. He was involved in many vessel traffic service as well as coastal and offshore surveillance projects around the world. Currently he is General Manager of Ship Traffic Control and Management Solutions and responsible for all VTS and coastal surveillance product lines. He is also VTS Instructor in Admiral Makarov State University of Maritime and Inland Shipping Training Center.



## Abstract:

Decision support systems are essential part of modern VTS. But most of them are focused only on a warnings and alarms, highlighting to VTS operator dangerous situation and leaving corresponding decision on him and his bridge counterparts judgement. There is a demand to have new generation of active decision support system, analysing traffic, detecting dangerous situations, such as probable collision or grounding, COLREG violations etc and advising the solutions for vessels. Presentation demonstrates the research performed in order to develop such kind of system and validation of the system in different traffic conditions and areas in simulation excercises and real environment. In addition discussed modern ways to deliver advisory services from shore to ship using e-Navigation approach.