



K-Bridge Integrated Bridge System (IBS) with K-Pos Dynamic Positioning (DP) functionality for two ultra-luxury, purpose-built expedition cruise newbuilds

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Carnival selects KONGSBERG integrated bridge with dynamic positioning functionality for new expedition cruise ships

- *Unified navigation and manoeuvring technology enable Carnival-owned cruise line Seabourn's two new purpose-built ultra-luxury polar class vessels to operate in remote and uncharted locations*

Kongsberg, Norway, 24th June 2019 – KONGSBERG has signed an agreement with the shipbuilding firm T.Mariotti to provide its K-Bridge Integrated Bridge System (IBS) with K-Pos Dynamic Positioning (DP) functionality for two ultra-luxury, purpose-built expedition cruise newbuilds to Carnival Corporation. The ships are under construction at the T.Mariotti yard in Genova, Italy for the ultra-luxury cruise line Seabourn, a brand of Carnival Corporation. The first, *Seabourn Venture*, is due to enter service in June 2021, while her yet-to-be-named sister ship is scheduled for launch in May 2022.

As Seabourn's first purpose-built expedition ships, every detail is being painstakingly considered to ensure that outstanding onboard luxury is matched with tough, hyper-efficient, state-of-the-art functionality. Constructed to PC6 Polar Class standards, the vessels will also carry two custom-built submarines, 24 Zodiac inflatable boats and an array of kayaks to provide the most immersive guest experience available – and KONGSBERG's K-Bridge will form the secure operational foundation of both ships.

The K-Bridge system's multi-functional workstations feature touch-sensitive control panels, joystick operation and large information displays enabling swift and accurate control of bridge auxiliary equipment. The system not only includes KONGSBERG's K-Pos dynamic positioning solution, SN90 forward-looking, omnidirectional sonar and ECDIS functions such as an integrated docking aid, but also provides mosaic enhanced 360° radar images and an ice radar.

"We will be able to offer our guests exciting, awe-inspiring expeditions in polar regions thanks to the technology that has opened up these areas for us," says Robin West, vice president of Expedition Operations for Seabourn. *"Safety is paramount, of course, which is why the K-Bridge system's pin-sharp radar images and built-in ice detection capabilities are so vital. We know we can navigate these areas with great confidence thanks in part to these systems."*

"It's highly gratifying to know that the Carnival Corporation and Seabourn have chosen KONGSBERG's integrated single solution to cover all bridge system requirements in these ultramodern newbuilds," adds Morten Stanger, Vice President, Passenger & Seaborne Transport, Kongsberg Maritime. *"Having the vital navigational technology contained within one centralised software and hardware environment simplifies and enhances operational processes – and when these vessels head off into remote, less-explored regions, having full control of the ship and complete awareness of surroundings is the top priority."*

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable 'Full Picture' technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and

drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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