MAN Energy Solutions

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MAN Energy Solutions and Amazon Web Services collaborate to drive digital transformation in the marine Industry

Companies set to improve operational efficiency for marine, power and industrial applications with real-time monitoring and predictive maintenance platform

MAN Energy Solutions, a leading solutions provider for the maritime, power, and industrial sector, has selected Amazon Web Services (AWS) as its preferred cloud provider to provide advanced analytics, machine learning, and Internet of Things (IoT) capabilities for MAN's CEON platform. The MAN CEON digital platform connects MAN equipment across different industries and geographies to offer customers advice, condition-based maintenance, and repair guidance for marine and power engines, turbochargers, turbines, compressors, and other connected equipment. By selecting AWS, MAN Energy Solutions is executing on its strategy to help its customers within the marine, energy, and industrial sectors to master challenges resulting from the need to decarbonize by improving efficiency and performance of their assets at a systemic level.

The MAN CEON platform combines MAN Energy Solutions' experience in the marine, energy, and industrial sectors with AWS's portfolio of cloud technologies and software expertise. Using machine learning algorithms, MAN CEON collects and evaluates operating data, and enables real-time monitoring of marine or power plant engines, turbines, and compressors, all of which are equipped with hundreds of sensors that constantly transmit data. This enables MAN experts to detect malfunctions and problems at an early stage, and to assist customers all over the world with operating and maintaining their systems.

"MAN CEON is the backbone of our developing digital-service business. By building the MAN CEON Platform on AWS, we are able to leverage the latest machine learning and IoT managed services to improve our algorithms and scale our platform to customers globally," said Uwe Lauber, CEO, MAN Energy Solutions. "With MAN CEON, we offer our customers real-time insights and help them run their system more efficiently."

MAN Energy Solutions leverages [AWS IoT Greengrass](#) and [AWS IoT Core](#) to run analytics and machine learning on the edge, meaning on the machine itself, to securely ingest data into the cloud. The algorithms for MAN CEON's predictive maintenance are developed and constantly improved using Amazon SageMaker, a fully managed service that helps developers and data scientists build, train, and deploy machine learning models quickly. MAN CEON customers also benefit from AWS secure infrastructure, with encryption from the machine to the cloud and at all layers of the technology stack.

"As industries look to improve their operations and become more efficient, they need reliable insights to avoid system failures," said Kathrin Renz, VP Business

Development and Industries, AWS. "By combining MAN Energy Solutions' deep expertise in marine, energy, and industrial solutions with AWS's leadership in analytics, machine learning, and IoT, customers will be able to reach new levels of operational efficiency.

"Working with AWS reinforces our digital vision of offering advanced and secure digital solutions to transform our business, and to optimize our customers' business decisions," said Gregory Puckett, Head of Group Digital, MAN Energy Solutions.

To continue the development of the MAN CEON platform, MAN Energy Solutions will utilize an enablement strategy that includes hands-on and experiential upskilling programs for its developers, data scientists, and product engineers via AWS Data Lab, AWS GameDay, and AWS classroom trainings from AWS Training and Certification, with a focus on IoT, security, and machine learning technologies.

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.