
Press release

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New MAN CEON Platform Provides Robust Connectivity and Real-Time Data Analysis

Digital platform uses intelligent analysis tools for further development of solutions and services

MAN Energy Solutions has announced the introduction of its new digital platform. MAN CEON intelligently collects and evaluates operating and sensor data, and enables the real-time monitoring of marine or power-plant engines, turbines and compressors. The new digital platform integrates data and information from MAN machinery and its operational environment, and uses intelligent analysis tools for evaluation and forecasting.

"MAN CEON is the new backbone of our developing digital-service business," said Per Hansson, Head of Digital and Strategy at MAN Energy Solutions. "All of our machines, whether engines or turbomachinery, are equipped with hundreds of sensors that transmit data constantly. MAN CEON enables the efficient collection, storage and evaluation of these data volumes. The platform is scalable: designed to monitor several thousands of customer installations in parallel its data-processing capacity exceeds that of many major social-media platforms. Furthermore, we are monitoring down to the level of small subcomponents, much like with a 'digital twin', with high-resolution data available on demand. To do this, we employ state-of-the-art, cloud-based technology and algorithms that automatically identify and report problems. And of course the platform meets the requirements for end-to-end security."

Expanding digital team

Originally established in 2016 to advance the company's focus on delivering a new generation of digital services, MAN Energy Solutions' digital team is driving the development of MAN CEON.

Hansson said: "Digitalization is often reduced to a purely technical level. In fact, it is above all a cultural issue, a mindset. Thinking digitally means being able to quickly adapt your own business model to make use of new technologies and developments."

A growing team of IT experts, software engineers and data analysts is working together with customer responsables and domain experts on the company's digital value-creation chain, which extends from hardware development to the development of cloud-based platforms and front-end applications, and on to data-analysis solutions.

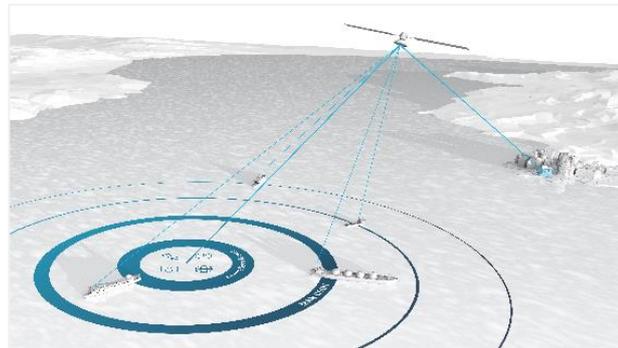
"We will continue to grow," said Hansson. "Digital services, the analysis of machine data and the switch to a platform economy are key development drivers, and we are the pacemakers."

Enhanced plant availability

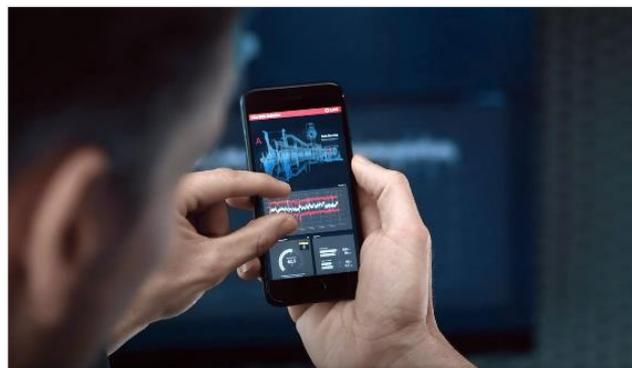
After connecting their installation to MAN CEON customers can access the platform via a web application on their PC, or by using a mobile terminal; data is sent and processed continuously. Encrypted data transmission and a multi-level authorization procedure during login ensure maximum data security.

The operating data of all systems and ships networked via CEON can be transmitted to MAN service centers in real time. From here, MAN experts proactively support customers with problem solving and maintenance. This is aided by the communication functions within MAN CEON, which enable video and audio live-chats.

Hansson concluded: "With MAN CEON, we can provide our customers with even better support during their daily work and optimize the availability and efficiency of installations, regardless of whether it is a ship on the high seas, a power plant, an industrial application, or even an oil platform. We can instantly respond to unusual operating-data and quickly offer customized solutions and services."



MAN CEON sends and processes data continuously and is designed to monitor thousands of ships or machines in parallel



Customers can access the MAN CEON platform via a web application on their PC or by using a mobile terminal

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.