Engine control system

Automation

SaCoS 5000



Everllence

Ready for the future
SaCoS 5000 is the evolution of the well-known SaCoS*one* control system with proven reliability, robustness, tailored functionality for the demands of Everllence engines and extended safety features.

Benefits at a glance
- Reliability and safety
- Performance
- Long-term support
- Modular-kit approach

SaCoS 5000 platform Key benefits

Reliability and safety

SaCoS 5000 is the evolution of the well-known SaCoS*one* control system with proven reliability, robustness, tailored functionality for the demands of Everllence engines and extended safety features.

- Proven technology and schematics
- Extended temperature range (-10 °C...80 °C)
- New SIL-proven redundant emergency stop feature

Performance

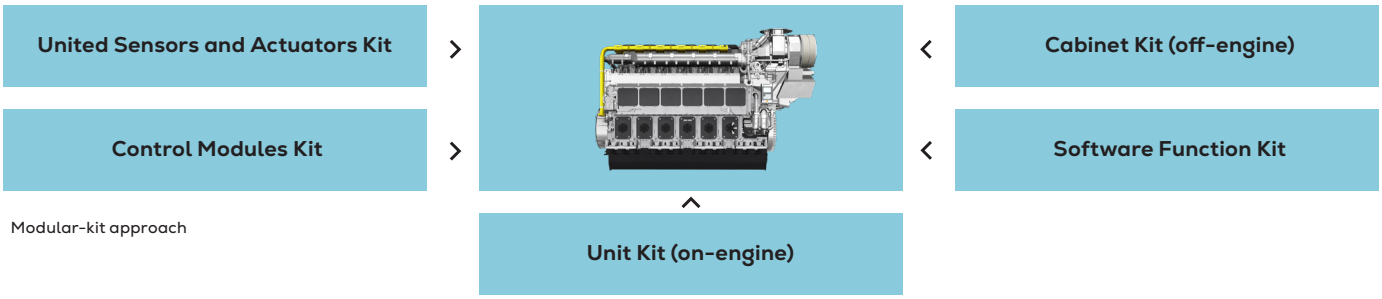
The introduction of a new processor architecture enables a scalable increase in CPU performance and memory in order to be prepared for constantly increasing requirements.

Long-term support

Newly-developed hardware modules can be produced as new SaCoS 5000 device as well as a compatible SaCoS*one* device in order to ensure the availability of spare parts for the next decade.

Modular-kit approach

Through the consistent development of a modular building kit concept, all SaCoS product lines will always be based on exactly the same hardware and software components.



Modular-kit approach

Modern user interface

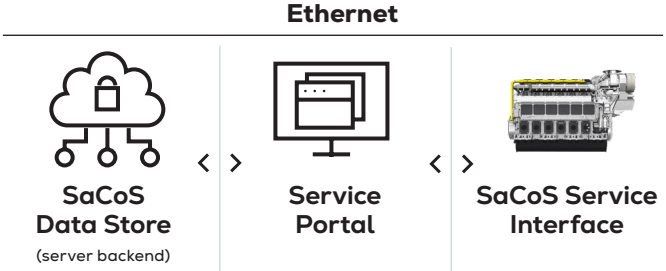
A modern user interface was developed together with external design experts to ensure a consistent user experience for all users of our four-stroke and two-stroke engines.

Improved service functions & usability

All essential operating functions and work steps are brought together in the new SaCoS 5000 ServicePortal in order to install, configure and run diagnostics on the automation system of our engines via one interface.



Main overview page of the SaCoS 5000 local operating panel



SaCoS 5000 ServicePortal architecture

SaCoS 5000

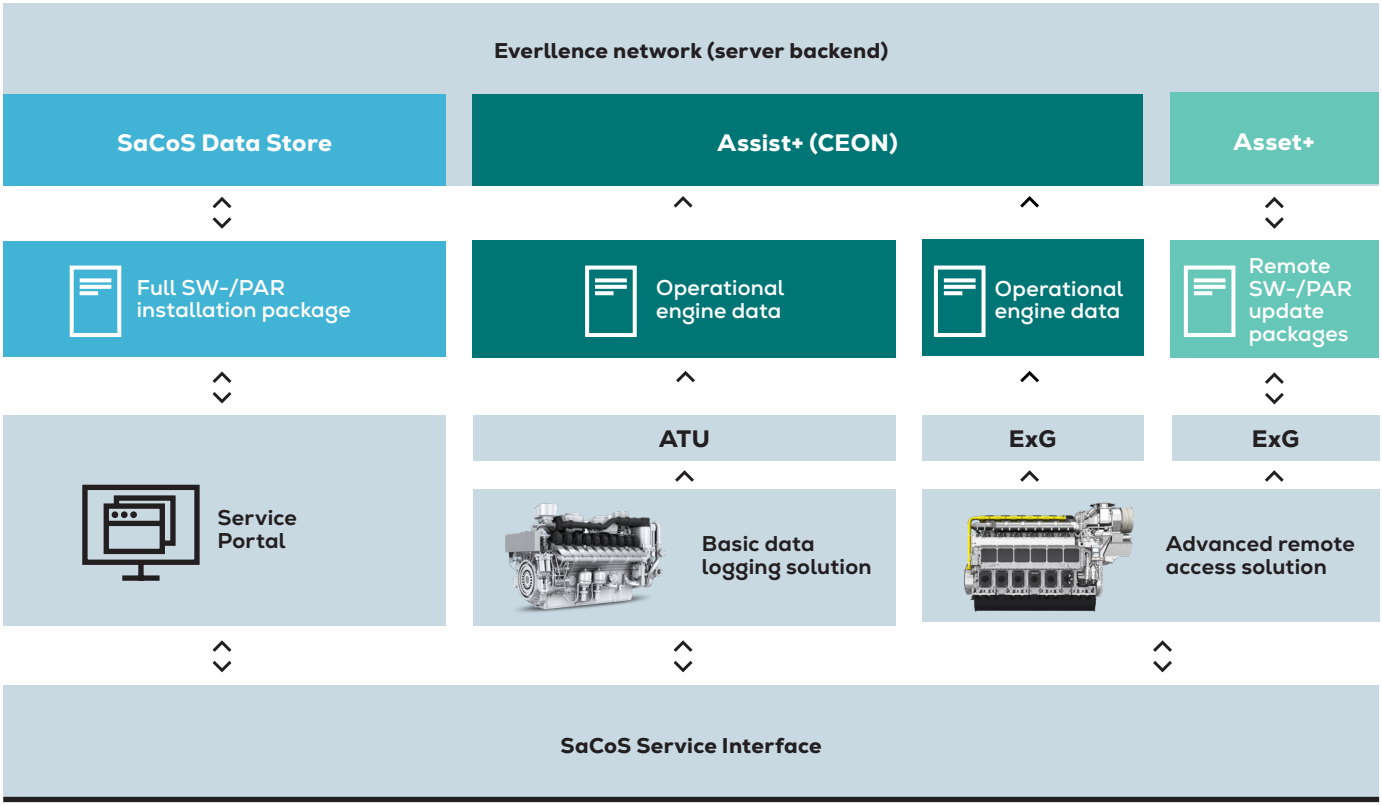
Engine control system

Digital connectivity

SaCoS 5000 is prepared to implement the necessary interfaces to be able to quickly adapt to future digital business models via remote access solutions.

Cybersecurity by design

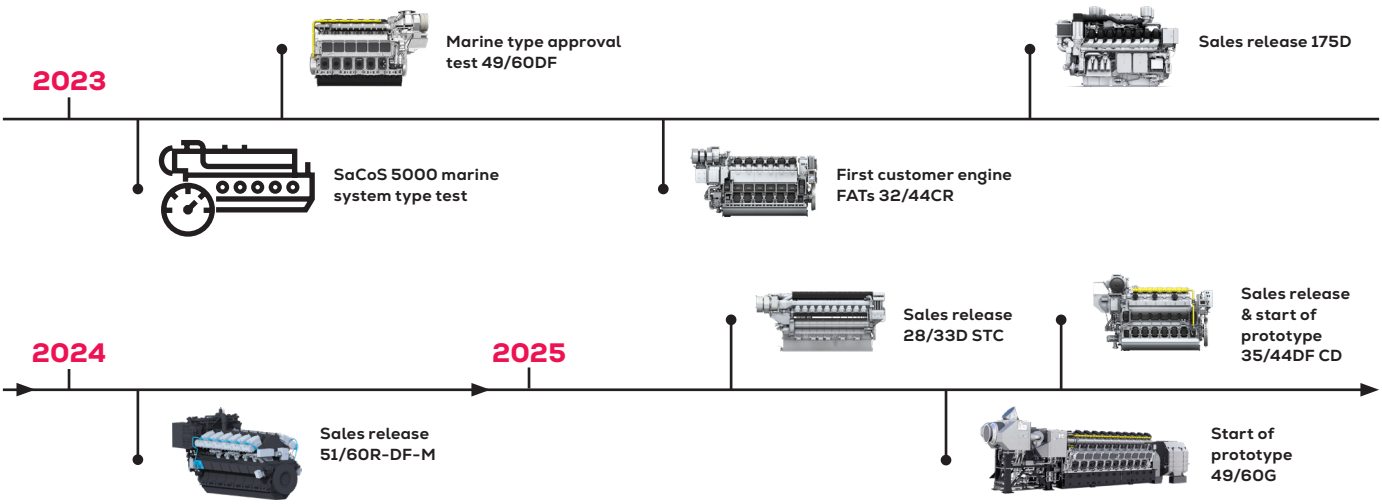
SaCoS 5000 is developed based on a “cybersecurity by design” approach and features all relevant technological prerequisites in order to be able to meet the highest security standards in the future.



Connectivity and security architecture

ATU: Analytics Telemetry Unit | ExG: Exchange Gateway | SW: Software | PAR: Parameter

SaCoS 5000 roll-out timeline



SaCoS 5000

Engine control system

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