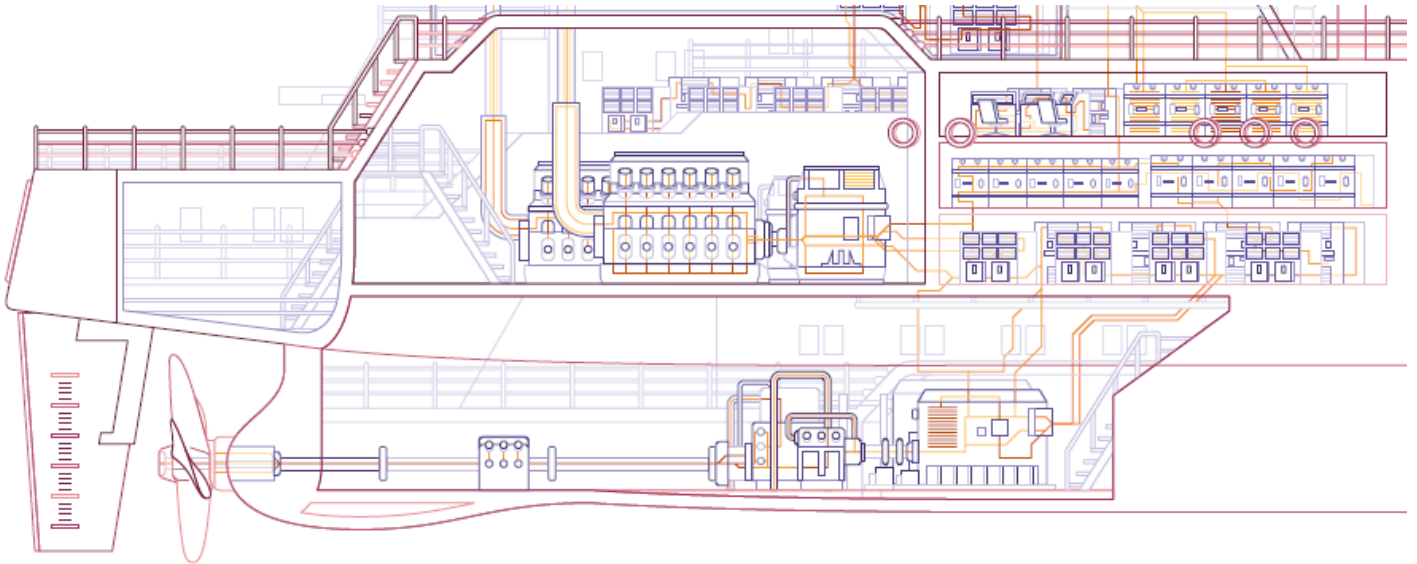


Modernization solution for diesel engines using obsolete ABB T200, CS31 and AC31 PLCs to new fully supported automation system



The ABB Procontic T200-, CS31- and AC31 series PLCs were utilized for various purposes for the automation of diesel engines and auxiliary systems.

Since 2010 the Procontic T200-, CS31- and AC31-series PLCs are in the obsolete life cycle status.

To ensure continuity of the life cycle for the engine automation, ABB has prepared the modernization solution AMCS500SS and SS500.

- Turnkey cost effective solution
- Common hardware minimizes spare part requirements
- Uses existing cabinets and auxiliary equipment to keep costs sensible
- Worldwide ABB support
- Full project management

According to ABB life cycle program, the obsolete materials are no longer supported by ABB's worldwide service network.

ABB will continue to supply Procontic spare part as long as they are available from stock. But today many components are not available and cannot be repaired any more.

To ensure continuity of the life cycle for the engine automation, ABB has prepared modernization solutions for the automation of four-stroke main and auxiliary diesel engines.

AMCS500SS – Alarm, monitoring and control system for main engine

The new main engine automation system AMCS500SS is an integrated solution to operate and control your main engine. The AMCS500SS system is type approved by Germanischer Lloyd (GL).

SS500 – Safety system for main and auxiliary engines

The new safety system for diesel engine fulfills all marine classification requirements for diesel engine safety system. The SS500 system is type approved by Germanischer Lloyd (GL).

Both systems are one-to-one to existing engine automation system.

Supporting Information

The ABB Procontic T200-, CS31- and AC31 series PLCs were utilized for various purposes for the automation of four-stroke main and auxiliary diesel engines.

Since 2010 the Procontic T200-, CS31- and AC31-series PLCs are in the obsolete life cycle status.



Obsolete Procontic system components

PLC product life cycle

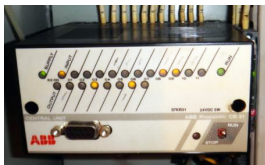
AC500-Series



AC30-Series



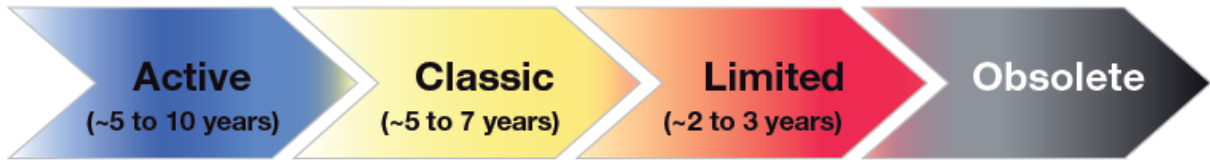
CS31-Series



T200-Series



PLC product lifecycle phases:



- The PLC product with complete lifecycle services is available for purchase.
- The PLC product with complete lifecycle services is available for plant extensions and spare parts.
- Some product enhancements can be made.
- Spare parts and repair services are available as long as materials can be obtained.
- Migration to a new ABB PLC product is recommended.
- ABB cannot guarantee availability of lifecycle services for technical reasons or within reasonable cost.
- Migration to a new ABB PLC product is recommended.

● ————— Complete lifecycle services ————— ● ————— Complete lifecycle services — — — ●



Reference: Main engine modernization



Reference: MAN auxiliary engine modernization

Modernization solution AMCS500SS and SS500

The AMCS500SS and SS500 retrofit solutions have been developed using the latest ABB controller technology to ensure an easy modernization path, with the following features:

- Turnkey cost effective upgrade solution
- Uses existing cabinets and auxiliary equipment to keep costs sensible
- Common hardware minimizes spare parts requirement
- Worldwide ABB support
- Based on ABB's well proven robust AC500 PLC system
- Full project management of the upgrade including
 - Engineering (software/hardware)
 - Installation and commissioning
 - System documentation

Modernization references

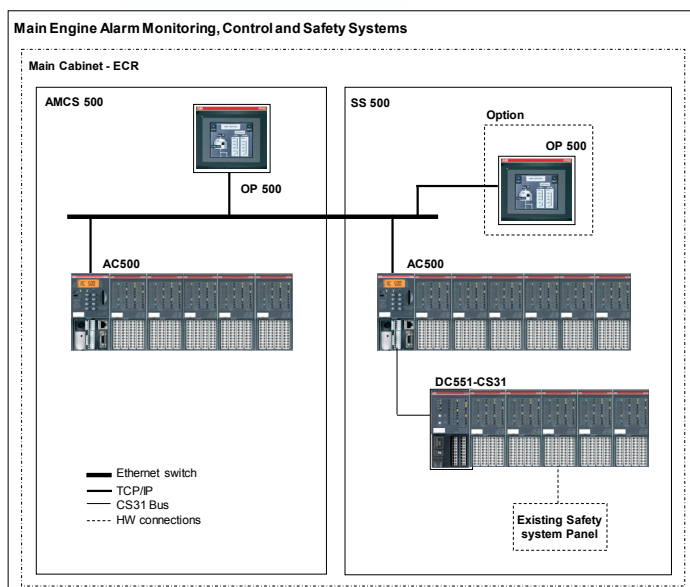
Main engine modernization

- 240 IO's
- Alarm and monitoring system
- Safety system
- One operator panel display

Auxiliary engine modernization

- 88 IO's
- Safety system and lub oil control

New system structure



New system components



Additional product information

Product Leaflet

AMCS500SS & SS500 Main Engine Safety and Control System

Auxiliary Engine Safety System

Product Leaflet

EMC³ Engine Management Complete Control Concept

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