

Welcome to Noris Group



Companies & Organisation



NORIS Group

NORIS Automation

Nuremberg



GRAW Radiosondes

Nuremberg



NORIS Automation

Rostock



NORIS Benelux

Rotterdam



NORIS Automation

Far East

Singapore



NORIS-SIBO

Automation

Shanghai



GRAW Met Systems

Shanghai





SHIPBUILDING INDUSTRY

Product Fields

SOLUTIONS

Automation Devices



Automation Systems



PRODUCTS

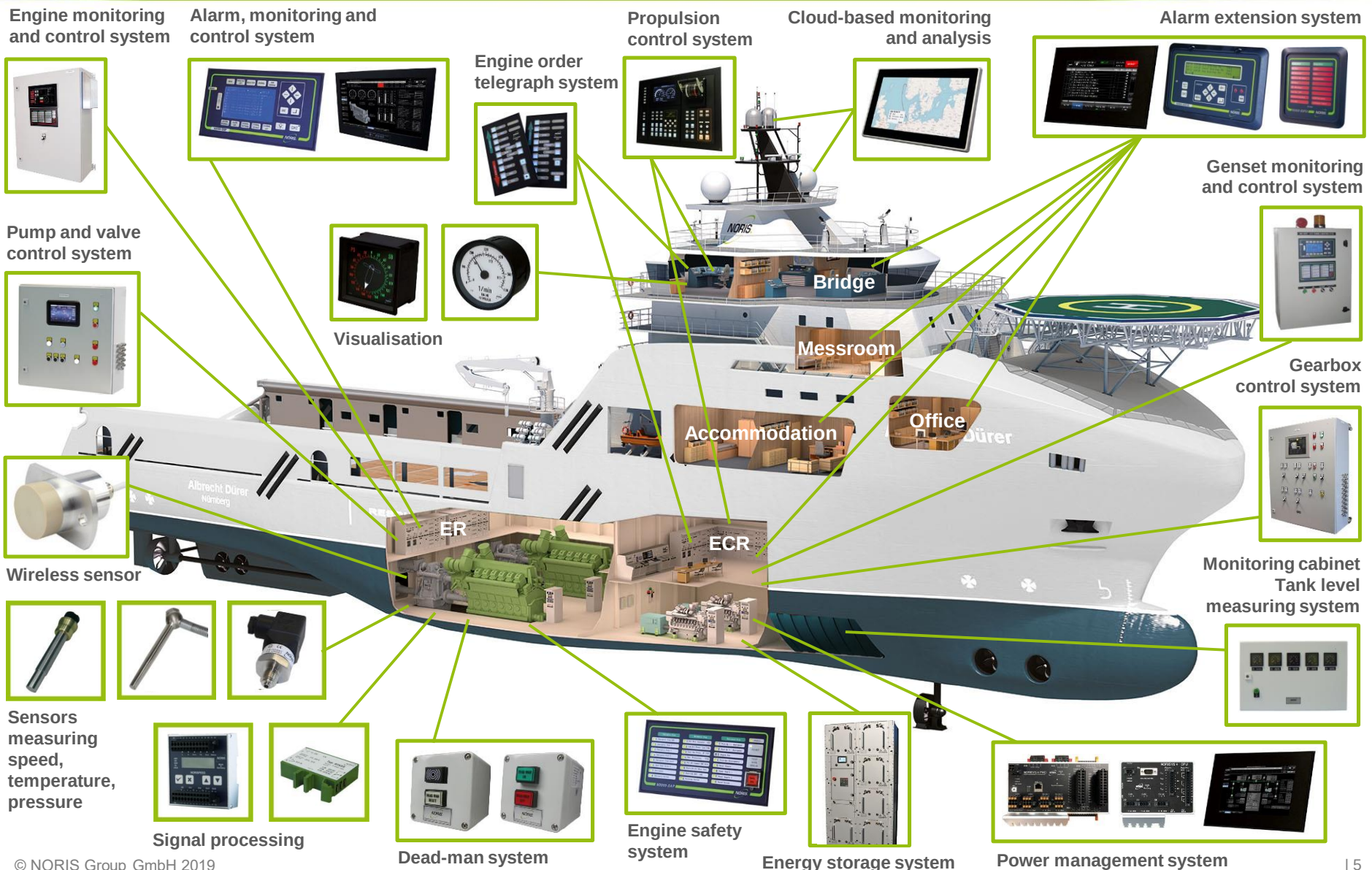
Measurement & Control Devices



Automation Components



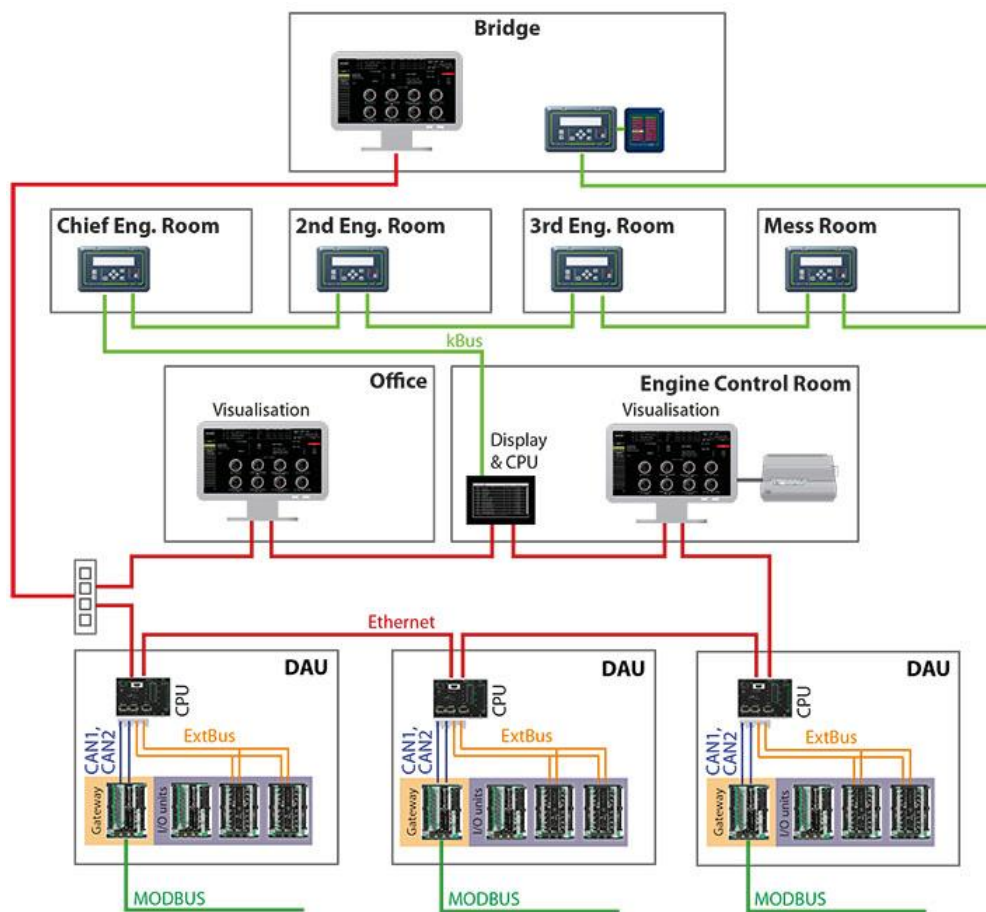
Tailor-made Solutions – Shipbuilding Industry



Alarm-, Monitoring and Control System NORIMOS 4



Application Example



Drive Lever Systems

Application

Ship propulsion plant application: CPP, FPP, Azimuth and any kind of thrusters

Features

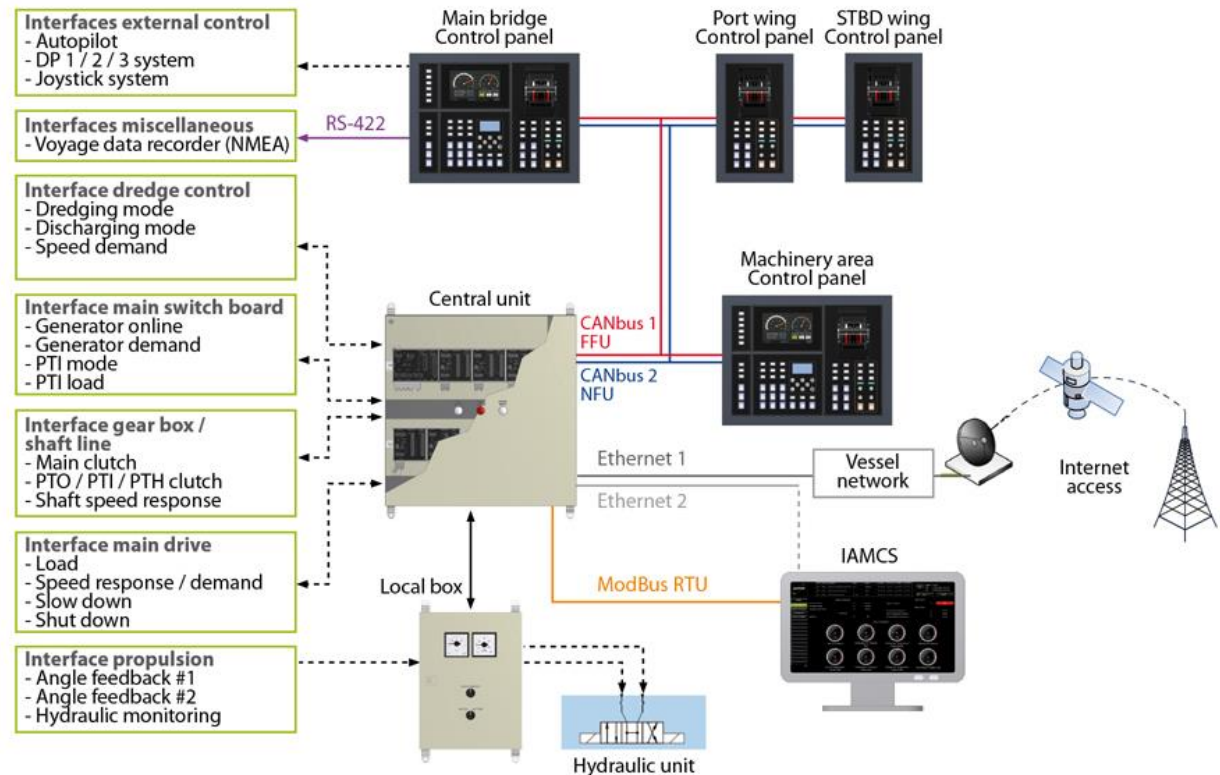
- Available as a single or double drive lever
- Individual scales available for each lever
- Position indicator for each lever
- Electrical Shaft System and configurable snap-in position
- Factory preconfigured for easy installation and commissioning by customer
- Suitable for indoor and outdoor application



Propulsion Control System



Application Example



NORINET - cloud-based solution for remote monitoring and analysis

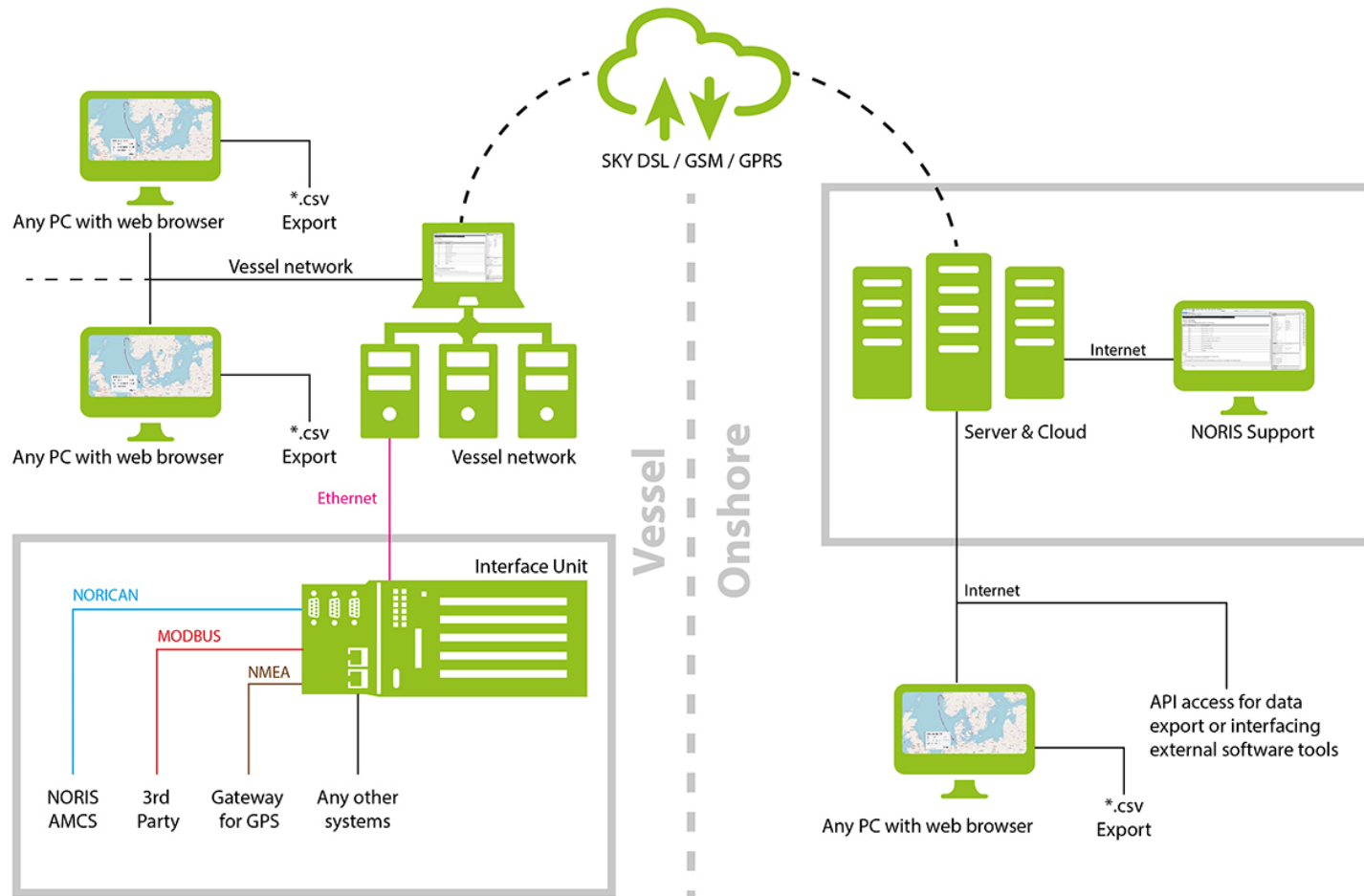


Features

- Fast, reliable and secure data transfer via MQTT protocol
- Data caching when internet connection is interrupted
- Optimisation of vessel and fleet performance as well as maintenance processes
- App-based functionality to ease customisation and to reduce costs
- Secure real-time remote monitoring
- Performance reports and analysis based on historical data
- Easy system updates
- User management and multiple user access



NORINET - cloud-based solution for remote monitoring and analysis



Application

Optimises the generation and use of electricity

Features

- CPU based multi-master system
- Safety through redundant communication
- Remote access for maintenance and service
- Different operation modes
- Automatic shore connection
- Intelligent ESS control
- Interface to higher level systems
- Usable in DC-power-bus applications
- Class approvals: BV, DNV-GL, LR (in preparation)

Application examples

For hybrid and fully electric systems on ships

Features

- Power Mode: Providing high energy in short time
- Energy Mode: Providing constant energy level over long time
- Peak Shaving Mode: Providing punctually energy to avoid load peaks
- Harbour Mode: Get power without running your Diesel generators or without shore connection – clean and silent!
- “Bring me to harbour” Mode: Your redundant system for propulsion – no noise, no pollution.

References (Extract)

- more than 400 alarm-, monitoring and control systems

- more than 500 bulk carriers
- more than 400 specialized vessels
- over 60 tankers

- over 500 engine safety systems

- Chimney lowering for Quantum class
- Rack-Chock control system MUHIBAH
- Exhaust gas purifiers control system
- Oil rig bases

- more than 1000 new buildings

- more than 750 propulsion control systems

- Tank level measuring
- Fire fighting control systems
- Measurement systems & analysis of fuel oil consumption
- Stabilizers control systems

- more than 200 retrofits

... in the last 8 years

CATERPILLAR®


WÄRTSILÄ


MAN


SCHOTTEL

 **中国传动**
CHINA TRANSMISSION


REINTJES
POWER TRAIN SOLUTIONS

YANMAR



MEGA YACHTS

Tailor-made Solutions – Mega Yachts



Tailor-made Solutions – Mega Yachts



- *Classical ambience of timeless elegance*
- *State-of-the-art yacht automation and control solutions*
- *Highest quality made in Germany*



Application

- *Propulsion control*
- *Unique bridge solutions*
- *Alarm and monitoring*



208.000dwt BC Oldendorff / Hantong Shipyard



Commissioning Noris Sibö Automation Shanghai



Monitors for visualisation



Expedition Cruise Ship / ASEN AV Chile



Magellan Explorer



208.000dwt BC Oldendorff / Kouan SY / New Yang Zi Jiang SY / Taizhou Catic SY



Commissioning Noris Sibö Automation Shanghai



Coast Guard India / Goa Shipyard



German Coast Guard / Fassmer Werft



Visentini / AVIC Weihai SY / 2500m Lane RoRo



Hondius / Brodosplit SY / Ocean Wide Expeditions / Polar Cruise Vessel



Adenia Fish Trawler / Zamakona SY / Pelagic Trawler



Pelee Islander / Asenav Chile Ministry of Transport Canada / Passenger Ferry



The background of the slide is a close-up, low-key photograph of a car's instrument cluster. The focus is on a tachometer with a red needle and a green light. The numbers 0, 2, 4, 6, 8, and 10 are visible on the scale. The rest of the cluster and the surrounding car interior are in deep shadow.

**With Power
into the Future!**

Thank You for Your Attention!