

The background is a dark blue gradient with a complex pattern of glowing, interconnected lines and dots, resembling a network or data flow. The lines are thin and light blue, with some points being more prominent. The overall effect is a sense of dynamic movement and digital connectivity.

blue|ctrl



Product company



Ålesund, Norway



Digital Platform X-CONNECT®



17 Years experience



16 Employees



150+ Automation systems




ULSTEIN®


SCHOTTEL



Background

Blue CTRL have produced over 100 automation systems based on our old platform.

Situation

Old platform based on Scada, PLC, client server technology, proprietary protocols, hardware and vendor dependent.

Complexity, costly maintenance costs, technical debt, high production costs/ man hour demanding.

Future oriented for Blue CTRL?
Competitive in market segment?

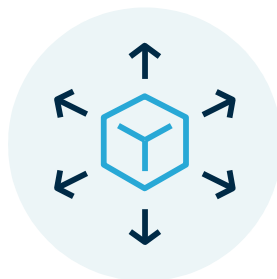
NO!

Key benefits



Standardized & Configurable

Efficient and professional software handling, cost saving through vessel life time, minimize human errors.



Scalable

All benefits and features of X-CONNECT® available for all vessels and segments.



HW Independent

Secure availability for HW components, world wide through vessel vessel life time. Increase make independency and competitiveness.

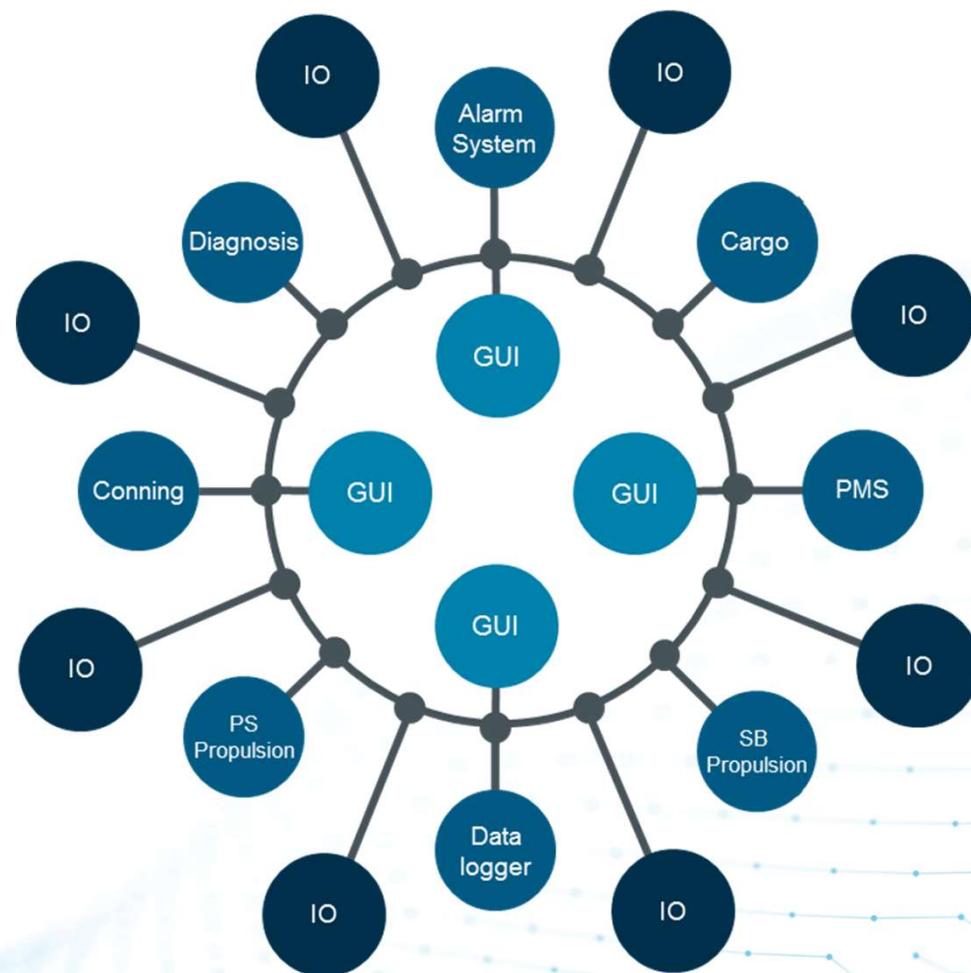
Distributed system

Distributed: X-Connect does not rely on a central service or servers to operate.
(Data for signal trending and historical alarms do rely on a log server)

All data available to all nodes in the system

Segmentation: Essential systems are split into segments to meet class requirements.

Event driven: X-Connect is event driven, so data is only sent on change.



X-CONNECT[®]

Extremely efficient platform for marine automation, control and monitoring systems.

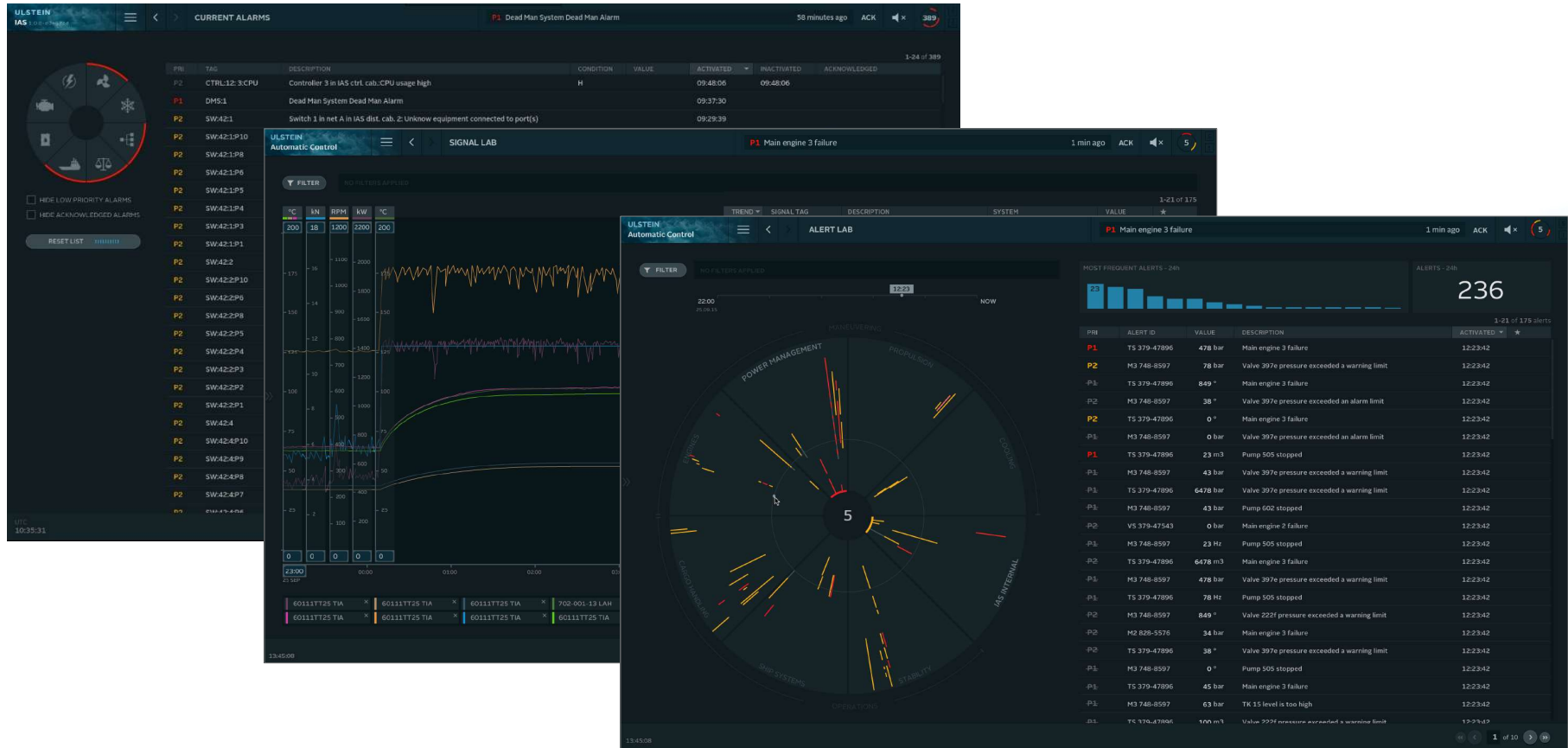


Awarded GUI

Price-winning interface design.

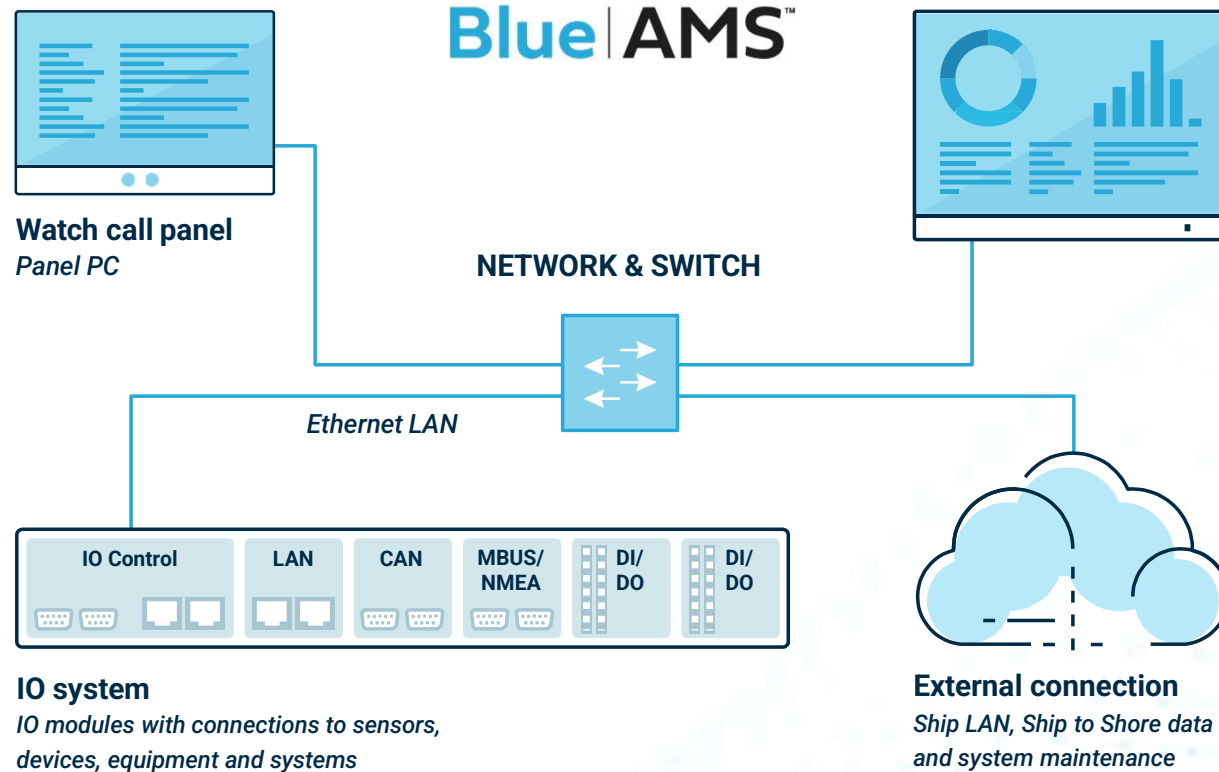


EXAMPLE VIEWS



Alarm and Monitoring System based on the X-CONNECT® platform.

The system makes it possible to monitor various processes and operations onboard a ship.

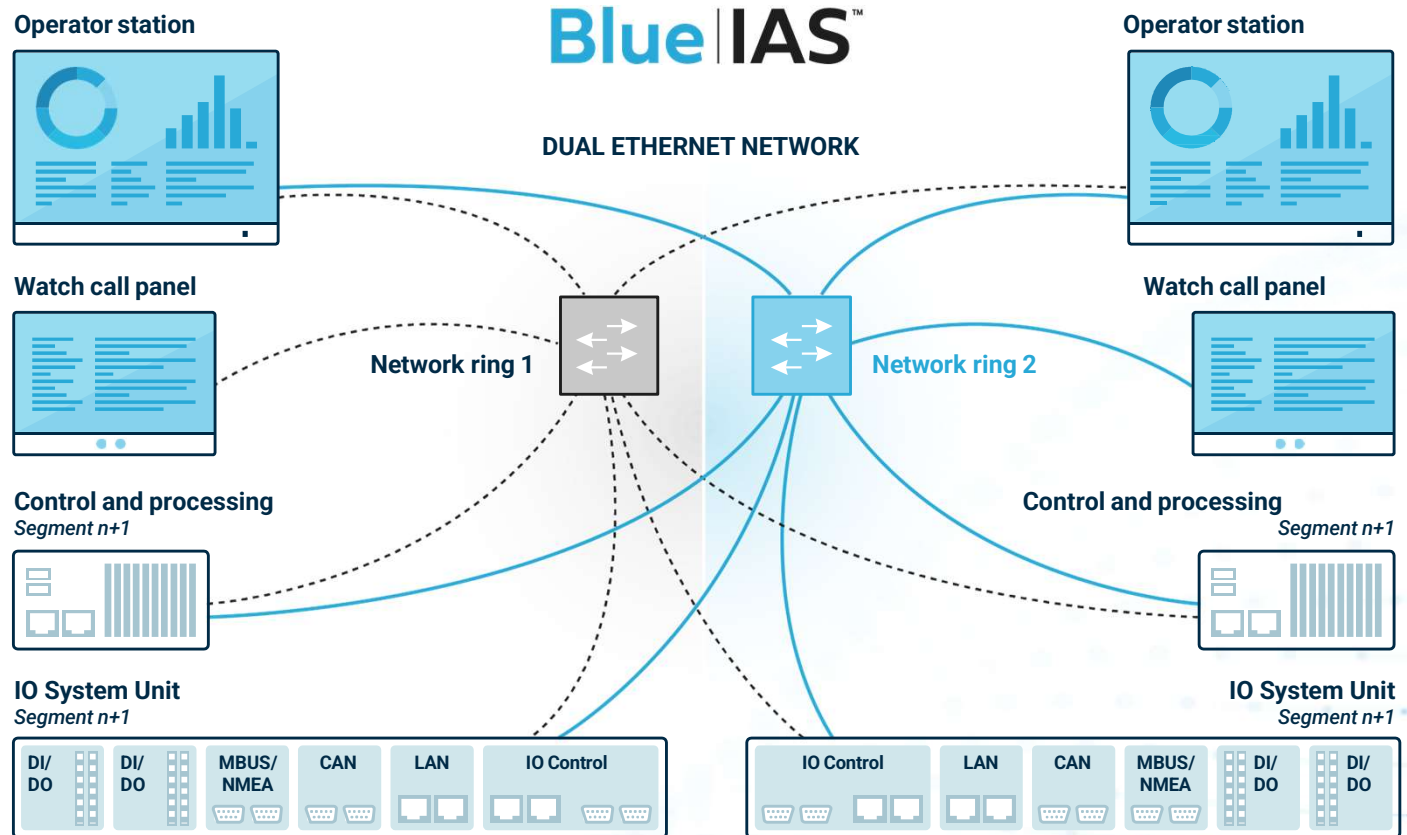


Blue|IAS™

Integrated Automation System based on the X-CONNECT® platform.

The system makes it possible to monitor various processes and operations onboard a ship.

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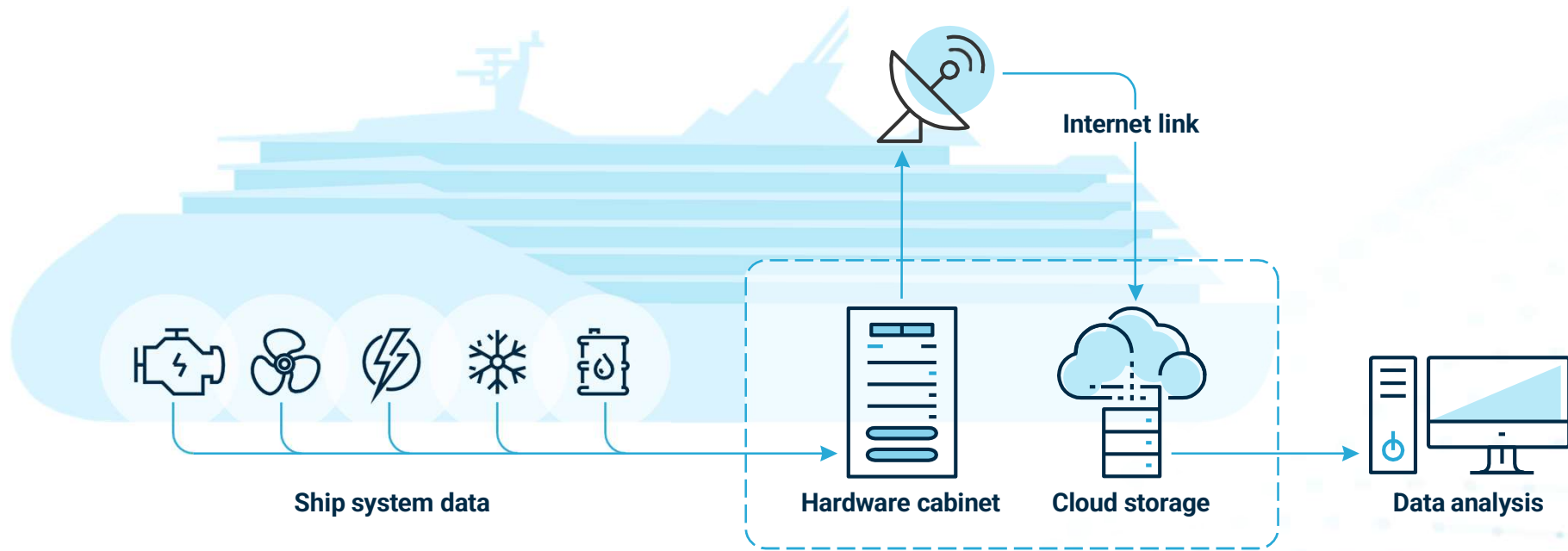


BlueBox™

Plug in solution based on X-CONNECT® that gives the ship operator direct global access to filtered and unfiltered ship data via a cloud service.

Dashboard solutions for operational analysis, maintenance monitoring, decision support and reporting.

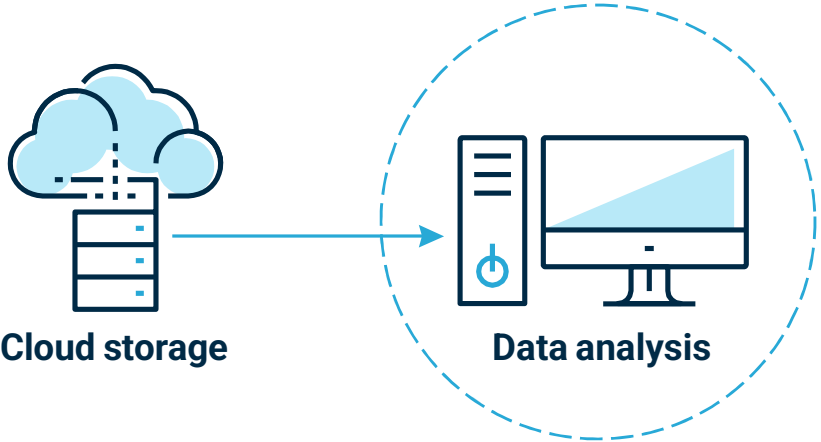
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BlueBox™
Scope of delivery

Blue Dashboard

Collecting data from cloud for monitoring, process & analyzing.



Availability



Diagnostics



Vessel Performance



User Adaptable KPI's

Dashboard

- Project information integrated with «live» data
- Auto-populated PLM info
- ERP integration
- KPI builder
- Signal and Alarm statistics
- Plotting functions
- NOx and CO₂ reports
- Raw data download
- Knowledge base
- Etc...

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espen.skjong@bluectrl.io
Log out

UPC DEMO

All vessels

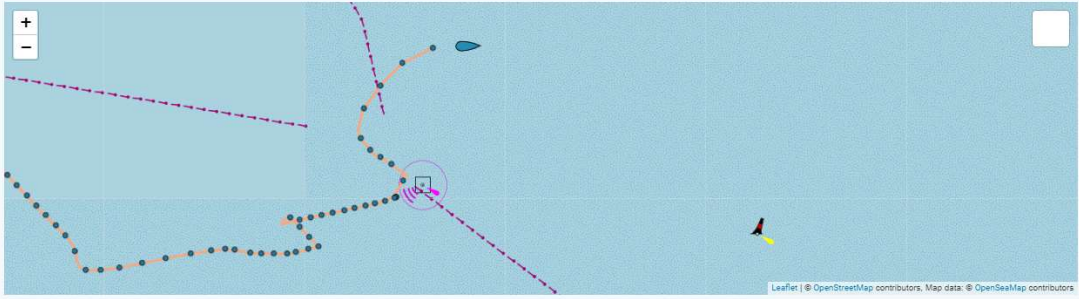
[Overview](#)
[Alarms](#)
[Alarm history](#)
[Signals](#)
[Nodes](#)
[Reports](#)

Info

MMSI:

Location (last 6 hours)

From: 04/25/2022 03:56:53 AM To: 04/25/2022 09:55:53 AM Load track Live



Weather

Wind: 8.9 (12) m/s ↗
Air temperature: 8 °C

Map info

Speed: 7.60 kn ←
Position: 55° 35' 15" N, 4° 45' 36" E
Est. distance: 3.42 nm

Add tile:

Signal sum/analog
Division
Multiplication
Subtraction
Digital

Sorted

Instant fuel consumption (l/h) ↗

| | |
|------------------------|----------------|
| ME 1 Instant Fuel Rate | 36.65l/h |
| ME 2 Instant Fuel Rate | 0.000l/h |
| ME 3 Instant Fuel Rate | 0.000l/h |
| ME 4 Instant Fuel Rate | 351 l/h |
| Total: | 387 l/h |

Fuel consumption (last week) ↗

| | |
|---------------|---------------|
| ME1 | 17596 l |
| ME2 | 3023 l |
| ME3 | 865 l |
| ME4 | 13776 l |
| Total: | 35260l |

Fuel consumption (last month) ↗

| | |
|---------------|----------------|
| ME1 | 106900 l |
| ME2 | 5840 l |
| ME3 | 3361 l |
| ME4 | 67465 l |
| Total: | 183564l |

Main Engine running status

| | |
|-----|---------|
| ME1 | Running |
| ME2 | - |

Main Engine remote status

| | |
|-----|-----------|
| ME1 | In remote |
| ME2 | In remote |

Power production ↗

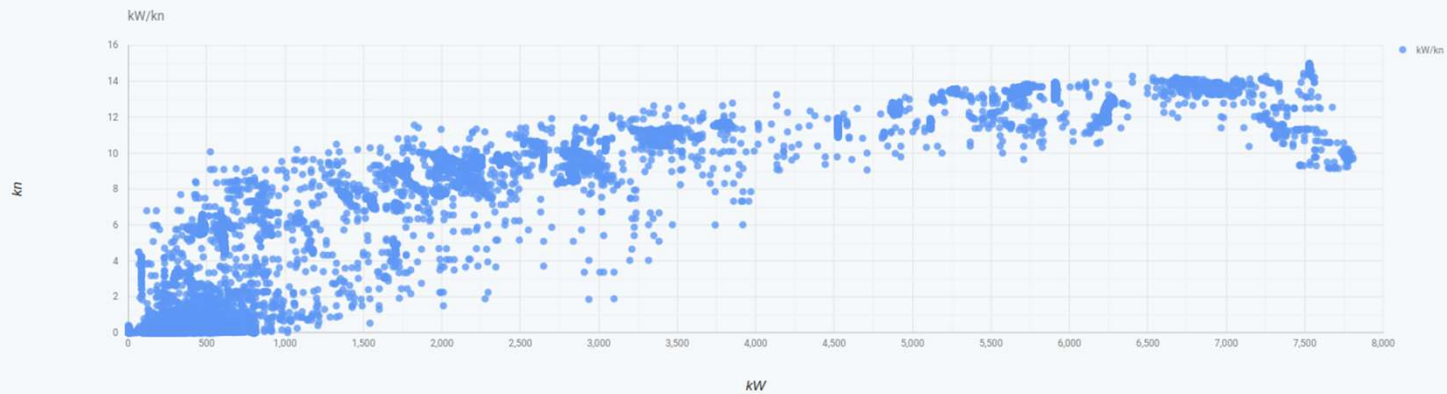
| | |
|-----|----------|
| ME1 | -2.00 kW |
| ME2 | 0.132 kW |

Dashboard

Demo : Power / Speed curve

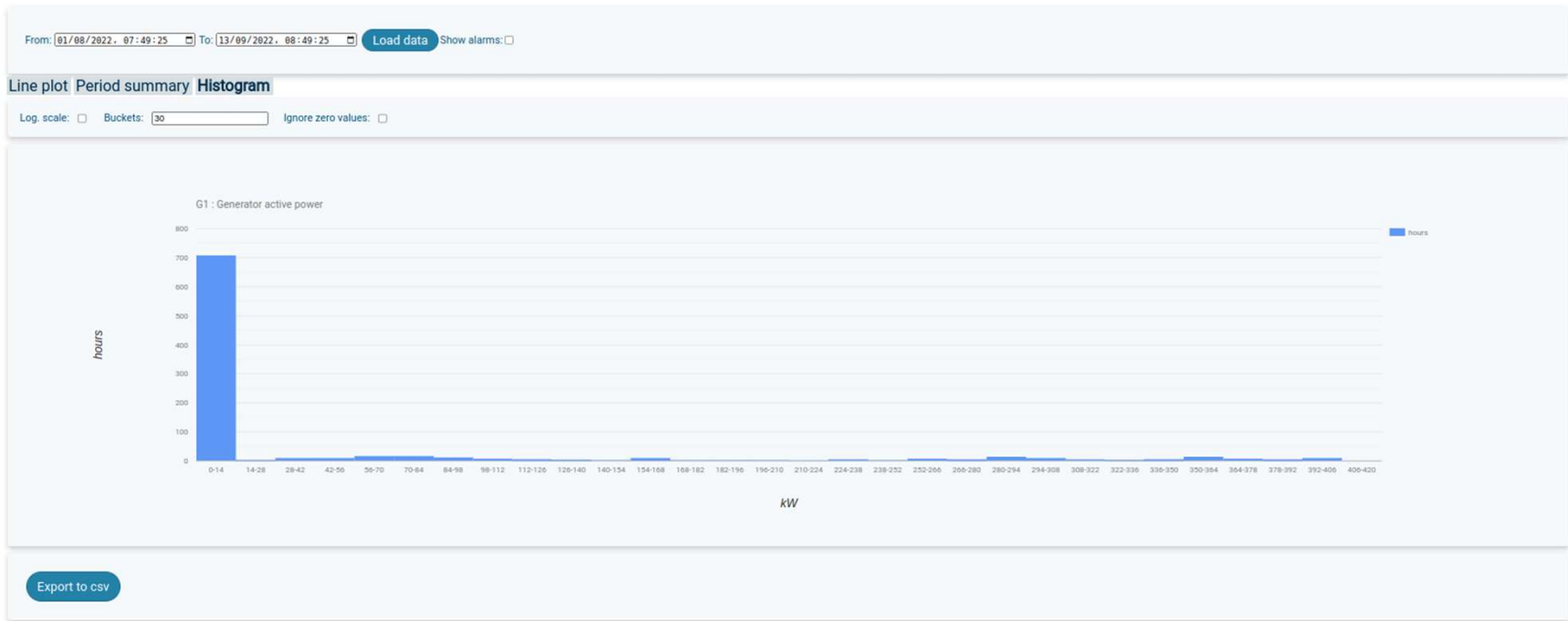
From: To: [Load data](#)

Interpolation:



[Export to csv](#)

Dashboard



Dashboard

All vessels

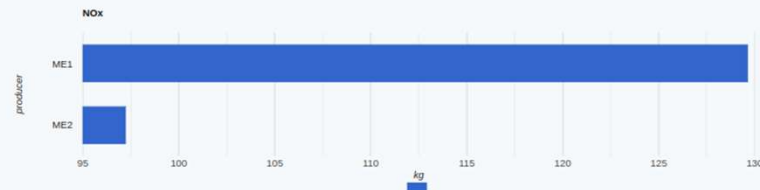
Overview Alarms Alarm history Signals **Reports**

From: 01/09/2022, 08:43:11 To: 13/09/2022, 08:43:11 [Load data](#)

NOx CO₂

Fuel usage in tons

Consider zone:
ME1 2.447 tons
ME2 1.835 tons
Total: 4.281 tons



NOx

NOx factor: 53 kg/ton
227 kg

NOx fee

226.91 kg x 10.5 NOK/kg
kr 2 383

Report

[.xls](#)

Periods in norwegian economic zone

01/09/2022, 08:43:35 to 13/09/2022, 05:54:35
In zone: 11.88 days
100.00 %

Map



Leaflet | © OpenStreetMap contributors, Map data © OpenStreetMap contributors

Dashboard

↓ Fuel used (last month) [↗](#) ⊞ / ✎

| | | |
|---------------|--------------|--|
| ME 1 | 8212 | |
| ME 2 | 6804 | |
| Total: | 15015 | |

↓ Generator active power [↗](#) ⊞ / ✎

| | | |
|-----------------------------|---------------|-----------|
| G1 : Generator active power | 0.000 | kW |
| G2 : Generator active power | -0.133 | kW |
| Total: | -0.133 | kW |

↓ Hotel and mission equipment loads [↗](#) ✎ / ⊞

77.61 kW

↓ Part of power delivered by Battery [↗](#) [↗](#) ✎ / ⊞

100.16%

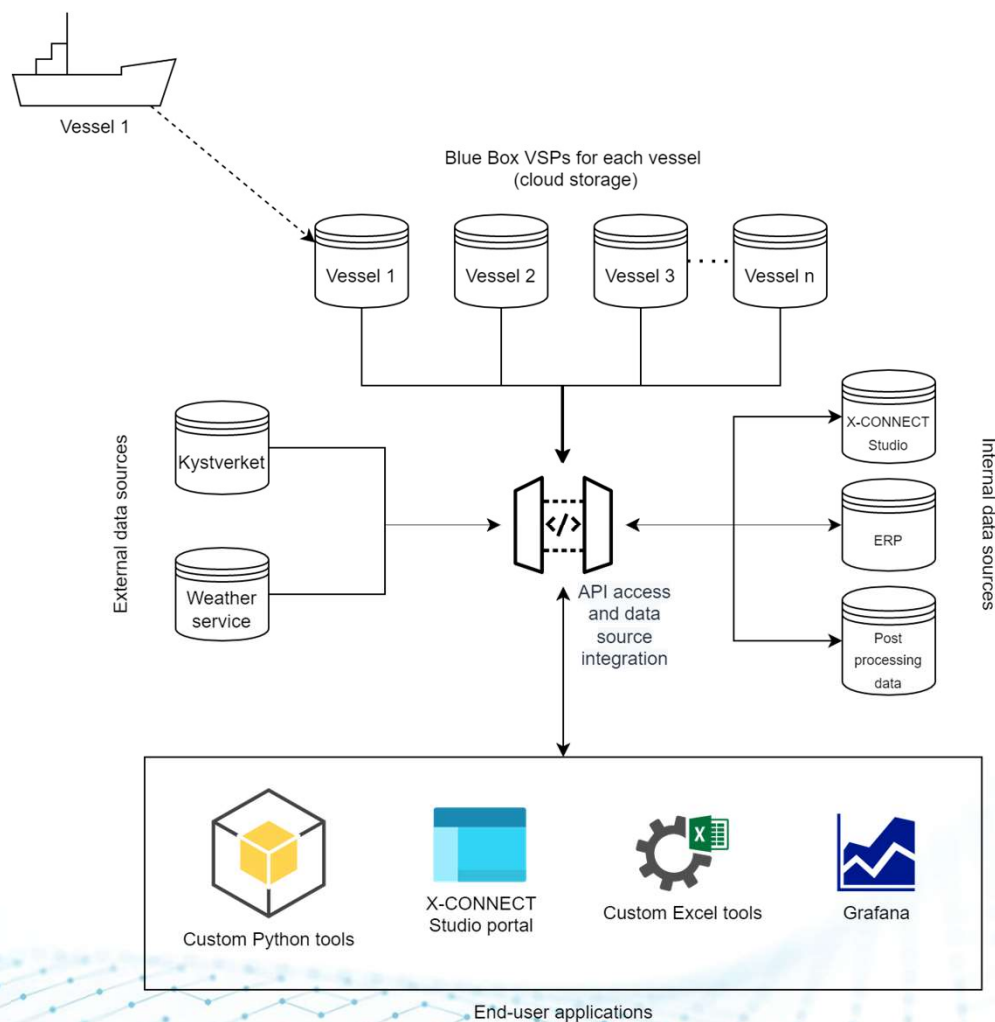
↓ Part of produced power allocated to propulsion [↗](#) [↗](#) ✎ / ⊞

7.415%

↓ Propulsion [↗](#) ⊞ / ✎

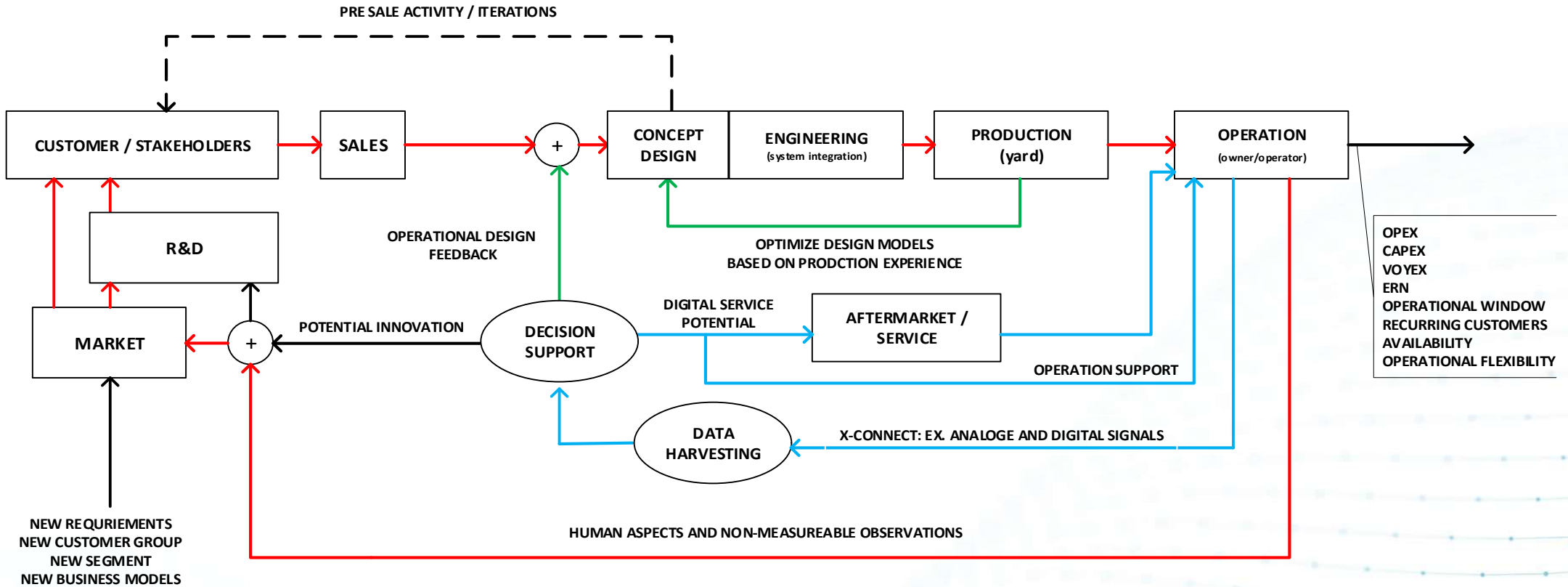
| | | |
|------------------------------------|--------------|-----------|
| Bow Prop Drive : Power Used | 54.76 | kW |
| Main Prop Drive - PS : Power Used | 1.75 | kW |
| Main Prop Drive - STB : Power Used | 1.69 | kW |
| Stern Prop Drive : Power Used | 1.64 | kW |
| Total: | 59.83 | kW |

Possible digitalization architecture



- Distributed data sources combined by unique APIs
- Internal and external data sources combined by common data gateway (in this case the Studio portal backend)
- API access management
- No centralized «data lake»
- Architecture prepared for «microservices» and «edge computing»

The use of data in new digital processes



* Different colours represent different initiatives

The X-CONNECT[®] experience



For the integrator

- Reduction in engineering hours by configuring the system
- Branding & Aftermarket
- No development cost



For the end user

- Modern and user friendly
- Instant system response
- Advanced system diagnostics
- Stable operating software



For the ship owner

- Complete system update from shore
- Vessel and Management Optimization



For the yard

- Reduced Installation and commissioning hours
- Efficient change handling

The background features a dark blue gradient with several glowing, wavy lines of light blue and white dots that create a sense of motion and depth, resembling a digital or network environment.

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