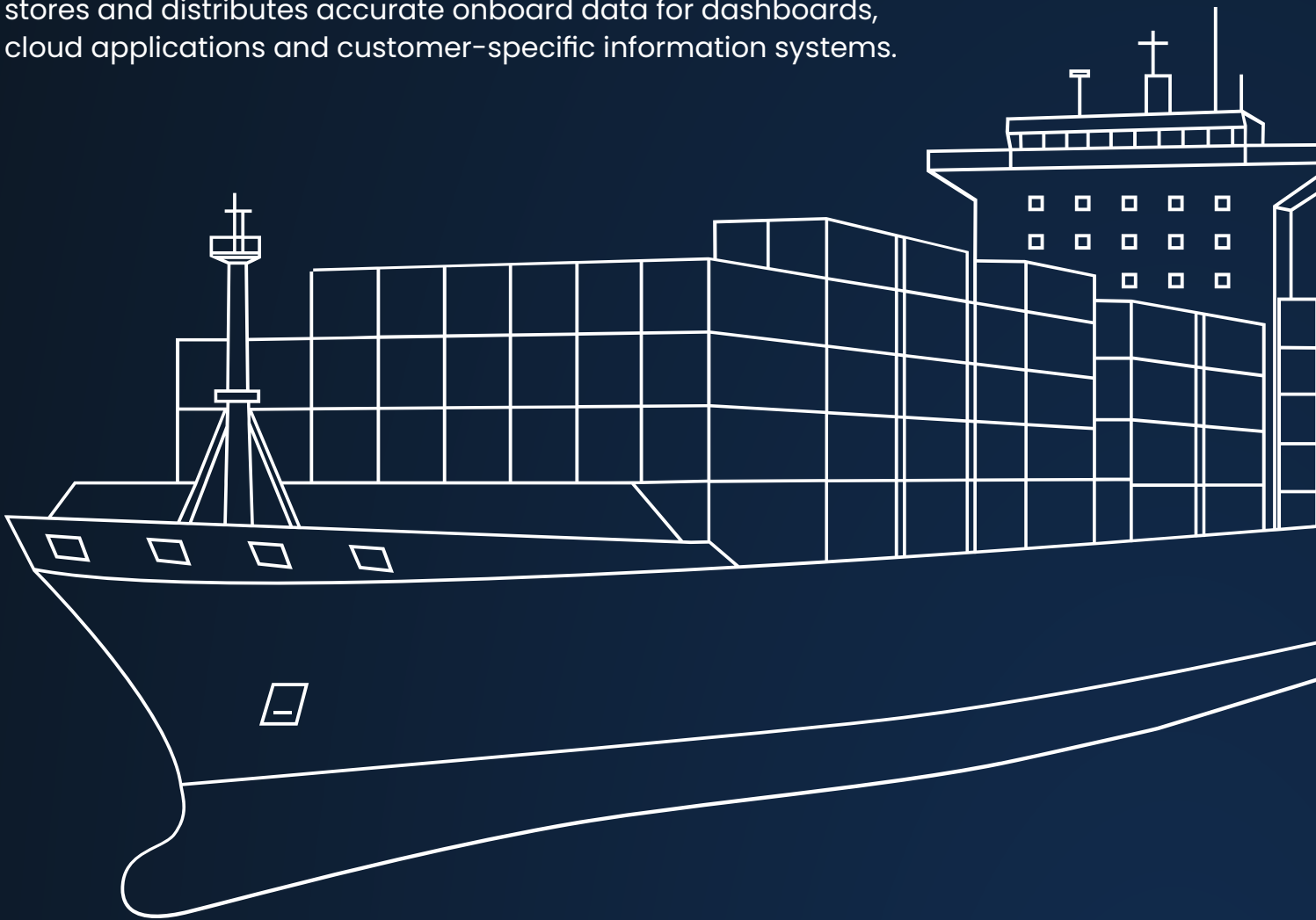


Connect.

SPU-3 data systems

The SPU-3 is the central point in maritime data systems. As a standalone and future-ready platform, it collects, validates, stores and distributes accurate onboard data for dashboards, cloud applications and customer-specific information systems.



From signals to connected data systems

Signal collection and data gathering in the maritime industry are changing rapidly. New equipment, digital workflows, owner requirements and compliance demands all increase the need for flexible and dependable onboard data systems.

A proven foundation

The SPU concept has been used in maritime applications for more than 16 years. This experience has resulted in a robust and practical system architecture focused on stable operation, clean data handling and long service life.

Prepared for changing requirements

Future-proof hardware and software, including the operating system, allow the platform to adapt to new interfaces, new sources and changing reporting needs. The result is a dependable data-system layer that is ready for today's projects and tomorrow's requirements.

Positioned to measure, connect and perform

SPU-3 stands between field signals and the information systems that use them. It collects, validates, stores and distributes accurate onboard data for dashboards, cloud applications, owner systems and customer-specific solutions.

Measure. **Connect.** Perform.
Turning data into confident decisions.

SPU-3: the central point in the data system

SPU-3 acts as the central hub in the onboard data architecture. It combines signal collection, validation, storage and communication in one robust platform.

Main functions



Central point for multiple data sources



Robust data collection at 1 Hz and lower reporting rates when required



Real-time onboard dashboarding



Historical data onboard and in the cloud



Cloud dashboard with real-time option, if internet access allows



Two years of onboard data storage



Future-proof hardware and software including OS



Security architecture for projects with E26/E27 requirements

Optional IPC for special requirements

For special projects, an IPC can add dedicated information output to the owner's own information system, richer onboard dashboarding, special signal handling or customer-specific applications.

Signal-converter expertise

Where required, VAF advises on and supplies suitable signal converters.



Data-system architecture



Signal and data sources

- Flow and process data
- Torque / speed / power
- Navigation and NMEA data
- Auxiliary systems
- PLC / Modbus / owner systems
- Project-specific signals



SPU-3 data handling

- Collect
- Validate
- Store
- Timestamp
- Route
- Combine
- Monitor



Outputs and destinations

- Onboard dashboard
- Cloud dashboard
- Owner information system
- Third-party platform
- Reports and exports
- Customer-specific interfaces

Architecture note

SPU-3 is a standalone data-system platform and can operate independently of specific sensor or software brands. Real-time data availability depends on project scope and internet connection.

Measure. **Connect.** Perform.
Turning data into confident decisions.

One central point for multiple data sources

The SPU-3 is designed for mixed-system environments. It brings together data from different onboard domains and makes the information available in a usable and consistent way.

Source	Typical inputs	Typical use	Value
Navigation	GPS, NMEA, speed log	Voyage and position context	Reliable operational context
Machinery	Analog, pulse, Modbus	Engines, auxiliaries, power	One structured machinery data layer
Process / fuel	Flow, temperature, consumption	Fuel and process monitoring	Accurate performance data
Owner / third-party systems	PLC, serial, Ethernet, dedicated feeds	Integration with existing systems	Fit to vessel-specific architecture
Special signals	Converted or custom signals	Project-specific monitoring	Flexibility for unique applications

Flexible data integration

SPU-3 can operate as a standalone data-system solution and distribute information to customer-specific systems, third-party platforms and VAF applications alike.



Why choose the SPU-3

Benefits

-  Cost-effective signal collection without an IPC in many standard cases
-  Pre-configured per vessel for fast commissioning
-  Plug-and-play installation onboard
-  Reliable data collection for cloud and onboard use
-  More than 16 years of proven maritime experience
-  Strong algorithms developed through years of use
-  High-quality connectivity solution
-  Real-time onboard dashboarding
-  Historical data onboard and in the cloud
-  Remote access options for updates, service and support
-  Flexible system architecture for custom interfaces and APIs
-  Optional IPC when projects require dedicated outputs, richer dashboarding or special signals

Practical benefits

The SPU-3 helps owners and operators create a dependable onboard data layer with less engineering effort. It delivers a practical balance between standardization, flexibility and long-term support.



Customization, integration and expertise



Independent by design

SPU-3 is positioned as a standalone data-system product. It can serve VAF environments, customer-specific systems and third-party platforms alike.



Optional IPC where required

Where projects call for advanced functionality, an IPC can be integrated – for example a dedicated information output to the owner's own information system, richer onboard dashboarding or the handling of special signals.



Advice on signal conversion

No two vessels are identical. When needed, VAF provides advice and expertise on signal converters, data interfaces and practical integration to create a reliable end-to-end solution.



Experience that matters

More than 16 years of use in maritime applications has shaped the SPU approach into a robust, flexible and trusted platform.

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Turning data into confident decisions.

Get in touch With our experts.

Have a question or want to learn more about VAF? Our team is ready to help. Get in touch using the contact details below.

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The VAF logo consists of the letters 'VAF' in white, bold, sans-serif font, centered within a solid red square.

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