MOMS®

Digitalize your Metering Systems

ODS Metering Systems

klöckner & co

DIGITALIZE **YOUR METERING SYSTEMS!**

The custody transfer world is rapidly shifting from mechanical driven technology to intelligent, digital solutions. MOMS® (Metering Operation & Management System) is at the heart of this transformation.

MOMS® digitalizes your metering systems, making them smarter, more transparent, and more reliable. It converts field data into actionable insights. Helping operators, engineers and managers work more efficiently while ensuring full compliance with industry standards and regulations.

With real-time performance monitoring, advanced analytics, and step-by-step guided workflows, MOMS® minimizes errors, maximizes uptime, and unlocks the full potential of your metering assets.

MOMS®

Digitalizing Metering. Simplifying Compliance. Maximizing Performance.

WHY MOMS®?

- Create **centralized** remote management information
- Monitor system **performance** and **uncertainty** live
- Reduce **human** errors
- **Intuitive** high performance interface
- Ensure **traceability** and **auditability**
- **Future-proof** solution based on **modern standards**
- Redundancy & **High availability**
- **Optimize** maintenance activities

OUR MOMS PACKAGES

MOMS HMI
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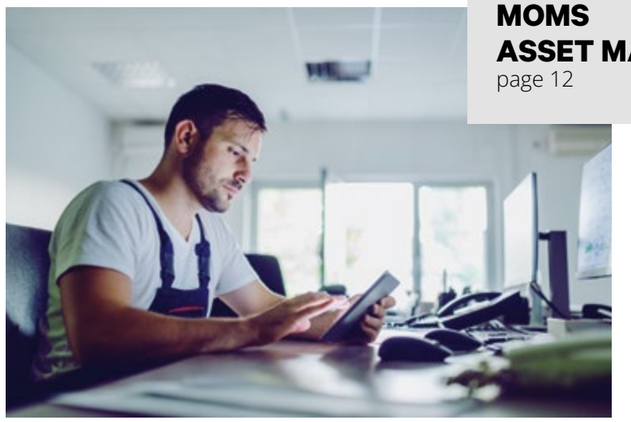

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MOMS HMI

MOMS HMI is a high-performance software package designed to automate and enhance your metering systems. It delivers real-time process updates, comprehensive device health monitoring, powerful reporting capabilities and robust cybersecurity. Developed in-house by ODS Energy Solutions, MOMS HMI gives operators and engineers complete control and total system insight.

High Performance Visualization

Experience complete control and insight with MOMS HMI – the smart interface that turns complex metering data into clear, real-time visualizations. Designed according to the latest high-performance HMI standards, including ISO 7000 graphical symbol compliance, MOMS HMI makes process monitoring simple, intuitive, and efficient. Customizable dashboards and dynamic process diagrams give operators instant access to every key performance indicator anytime, anywhere.

- In compliance with ISA-101 – Human Machine Interfaces for Process Automation Systems.
- Dynamic graphics (e.g., pipelines, valve status, flow paths).
- Color-coded indicators for process status, alarms and other signals.
- Multi-screen or remote access.

Accurate, real-time data is essential for efficient and reliable metering operations. As systems grow more complex, MOMS HMI ensures fast, scalable, and seamless data communication across the entire metering infrastructure.

Real-Time Data Communication

MOMS HMI is designed to deliver high-frequency, real-time data acquisition from a wide range of metering devices — including flow computers, PLCs, flow meters, pressure sensors, temperature transmitters, and analyzers. Thanks to its advanced data processing capabilities and high-speed communication, MOMS HMI handles large-scale, real-time data more efficiently than conventional HMI systems. It supports all relevant communication protocols, ensuring seamless integration with both legacy and modern metering equipment.

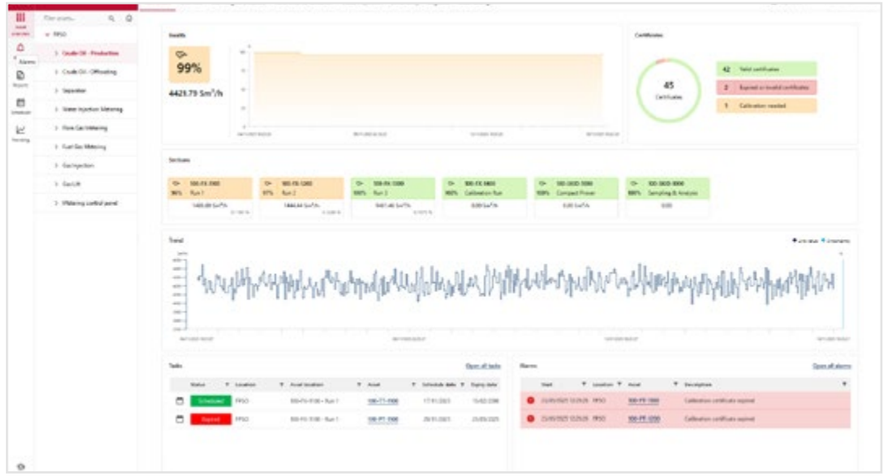
By continuously polling field devices, MOMS HMI guarantees that measurement values are always up to date. Its event-driven communication minimizes latency in time-critical environments, while redundant communication paths enhance overall reliability and system availability. In addition, MOMS HMI streamlines the flow of critical metering data to supervisory and enterprise-level systems such as PAS, ICSS, and SCADA — ensuring accurate, timely information where it matters most.

Trending and Historical Data Analysis

MOMS HMI delivers a complete, integrated solution for monitoring, analyzing, and managing metering data with confidence and precision. Its advanced trending and historical analysis tools empower operators and engineers to detect anomalies, optimize performance, and ensure data integrity. Real-time trending charts provide instant insight into operations, while secure historical databases allow in-depth analysis and performance tracking. Intuitive overlay functionality makes it easy to compare results across different timeframes, revealing trends and opportunities for smarter decision-making.

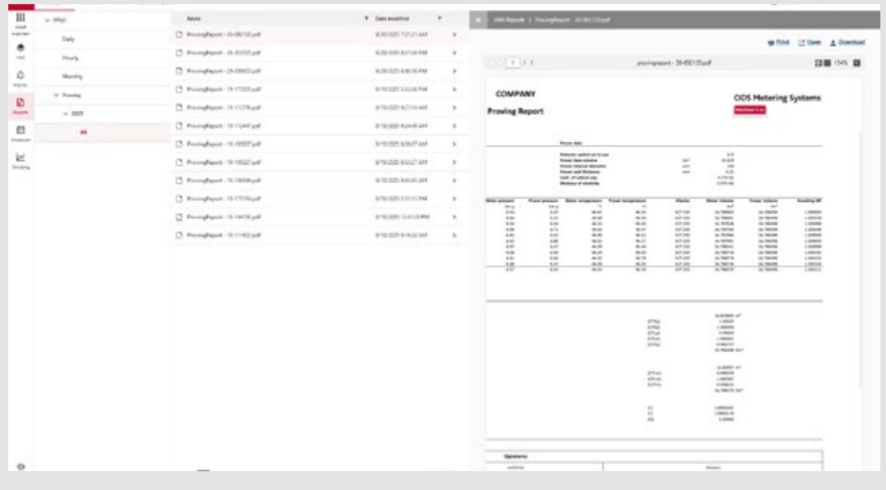
Alarm and Event Management

Complementing its analytical and reporting capabilities, MOMS HMI incorporates a comprehensive alarm and event management system to quickly identify and address abnormal conditions. Alarms are fully configurable with adjustable limits and deadbands, categorized by severity, and allow operators to acknowledge events, add comments, and track actions. Integration with SCADA and ICSS alarm systems ensures a unified approach, while built-in summary, history, and reporting tools provide complete visibility and traceability for operational safety and reliability.



Reporting

The platform also streamlines reporting, offering both automated and manual capabilities to meet operational, regulatory, and commercial requirements. Fully configurable reports can be generated at customizable intervals, including batch and shift-based summaries, and seamlessly integrate with custody transfer calculations and audit trails. Reports are supported in multiple formats — PDF, Excel, CSV, and XML — and can be scheduled for automatic email distribution to stakeholders, ensuring critical information reaches the right people at the right time.



Cyber Security

MOMS HMI is built with cybersecurity at its core. Role-based access control, secure authentication, encrypted communication and strict password policies protect your metering system against unauthorized access. All user actions are logged, ensuring complete traceability and supporting compliance with modern cybersecurity standards.

Redundancy & High Availability

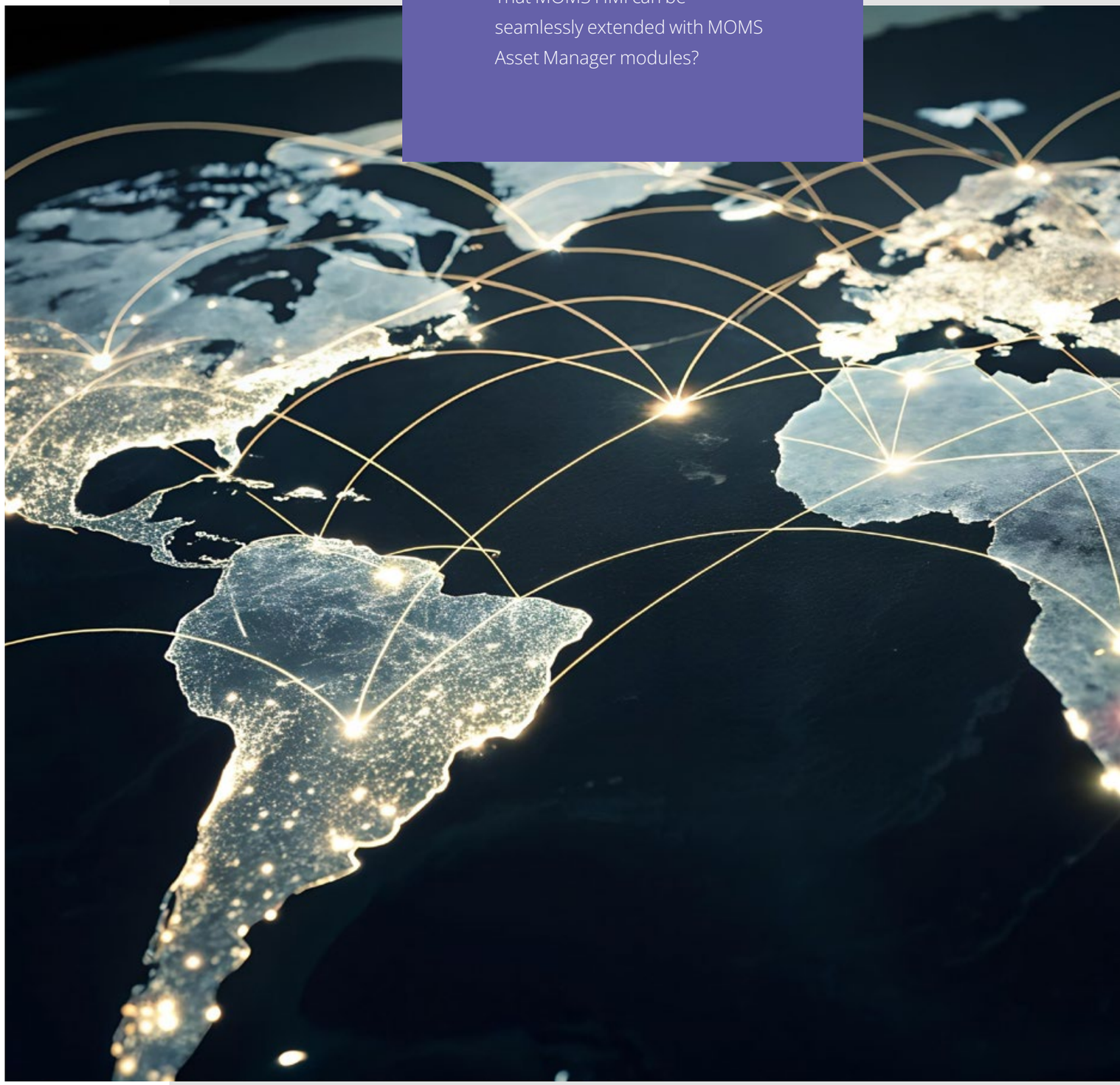
To ensure continuous operation, **MOMS HMI** supports full redundancy through a duty-standby server setup with real-time synchronization. Redundant communication links and automatic failover mechanisms secure high availability, allowing operators to continue working without interruption during server or network event.

Key Features and Advantages

- Windows-based interface; standalone or client-server configuration.
- Independent, single-platform solution.
- High-performance HMI compliant with ISO 7000.
- ISA-101 – Human Machine Interfaces for Process Automation Systems.
- Cybersecurity measures in accordance with ISO 27001.
- Full redundancy in case of dual servers utilizing automatic pairing technology.
- Supports all major communication protocols including Modbus, OPC, Flow-X, XML, and a wide range of industrial standards.
- Unlimited field instrument connections.
- Color-coded status indicators, configurable alarm priorities, and acknowledgment workflow.
- Embedded XML-based reporting.
- Optional MOMS expansion package including live uncertainty calculations, condition-based monitoring, and maintenance scheduler.

Did you know?

That MOMS HMI can be seamlessly extended with MOMS Asset Manager modules?



Did you know?

MOMS HMI and MOMS Asset Manager combined are a unified system delivering real-time supervision, lifecycle analytics, performance verification, and regulatory compliance.

MOMS
ASSET MANAGER

MOMS Asset Manager, developed by ODS, is an independent software package that continuously monitors the real-time performance, traceability and integrity of your metering system.It gives operators, owners and stakeholders complete confidence in their metering operations.

By combining live readings from online instruments with the results of validations, calibrations and device condition monitoring, MOMS Asset Manager calculates live uncertainty and identifies potential mismeasurement before it impacts operations. The system is modular by design, allowing you to select the software modules that best fit your operational and regulatory requirements.

Management Dashboard

The management dashboard provides a clear, real-time overview of your entire metering system. Fully configurable, it brings key information together – health indicators, live uncertainty, active tasks, alerts and shortcuts – so operators and managers can make faster, more informed decisions. It delivers visibility and keeps your system performing at peak efficiency.

Metrological Database

The Metrological Database is the central hub for all metering documentation. Certificates, calibration records, manuals, datasheets, backups ad inspection reports are securely stored and easy to retrieve. Powerful search and filtering features ensure full traceability and audit readiness, while the integrated logbook protects data integrity by recording every change or update.

Calibration & Validation

The Calibration & Validation module manages the complete lifecycle of all calibration and validation activities. It tracks due dates, organizes certificates and supports both guided and manual workflows to ensure every task is performed consistently and correctly. By linking calibration results directly to device status and uncertainty calculations, the module provides continuous assurance that your metering system is performing within required limits. Automatic notifications, full traceability and documentation keep your operations compliant, reliable and audit-ready.

Live Uncertainty

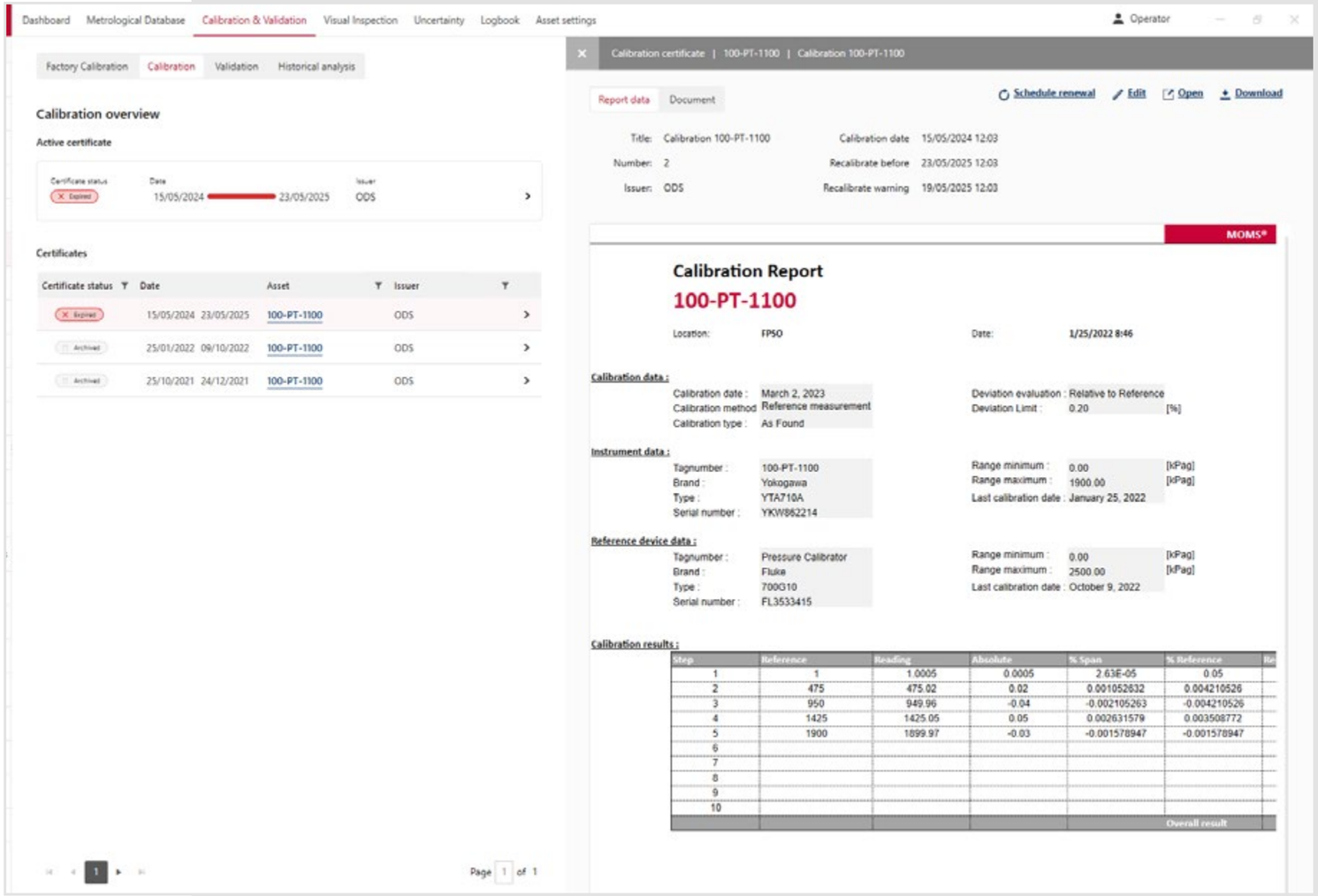
The Live Uncertainty module transforms how you monitor measurement accuracy. By automatically calculating uncertainty based on real-time process conditions and the latest calibration data, it offers continuous, transparent insight at both instrument and system levels. Operators and stakeholders gain peace of mind knowing your metering system consistently meets expected performance, regulatory standards, and contractual obligations. Early detection of deviations reduces custody transfer risks, while ongoing visibility ensures a compliant and reliable operation throughout the lifecycle.

Maintenance Scheduler

The Maintenance Scheduler takes the guesswork out of daily maintenance planning. Automatically trigger reminders for calibration and inspections, standardize workflows, and reduce the risk of missed or delayed activities. By streamlining maintenance processes and minimizing human error, this module keeps your operations organized, compliant, and operating efficiently—so you can focus on performance, not paperwork. Real-Time Data Communication

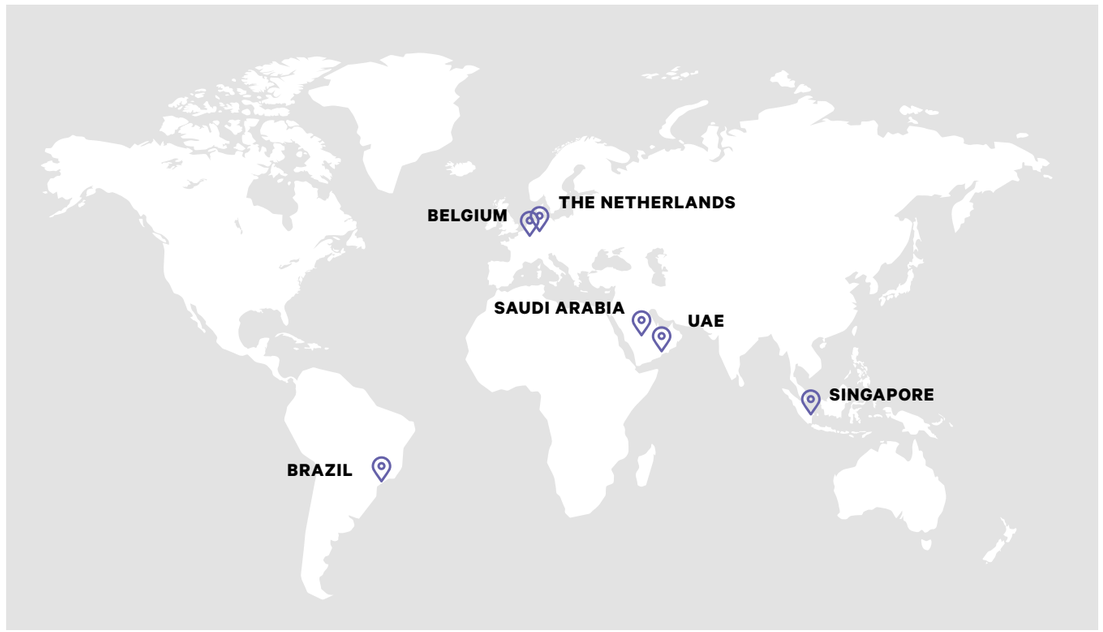
Customization

MOMS offers extensive flexibility to align with each client's operational reality. Dashboards, workflows, alarms, naming conventions and report formats can all be adapted to match local practices and regulatory obligations. This flexibility ensures that MOMS fits the way your organization works rather than the other way around.



LET'S TALK!

Contact your local office now



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