INDUSTRY
4.0

MODULA
CLOUD
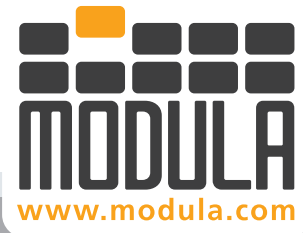
AI

MODULA
LIFT

www.modula.com

Modula Cloud

Think Vertical, Think Modula

ALWAYS-ON WAREHOUSE MANAGEMENT AND SUPPORT

OUR PRODUCTS ARE
★ **MADE IN USA** ★
From US & Imported Components

MODULA
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Modula CLOUD

Secure, Remote Warehouse Management, Support and Analytics

Modula Cloud is a remote management, support, and analytics platform, which collects statistical data from all your automated storage and retrieval systems, no matter where they are located.

Built-in and always-on, the Cloud platform captures all data in an easy-to-navigate online portal where users can securely monitor and manage your operations, from any device, anywhere in the world.
With all processes relating to the Modula storage and retrieval units recorded and analyzed in real time, our expert technical resources can remotely diagnose and perform predictive maintenance, whenever help or support is needed.

Modula Cloud puts all the information you need at your fingertips and empowers you with advanced management, support, and analytics capabilities such as:

- Remote monitoring of your advanced Modula storage systems.
- Remote warehouse management.
- Remote support, diagnostics and resolution.
- Preventive warehouse maintenance.

How does the Modula Cloud work?

The statistical data from each Modula storage unit is collected and analyzed by the Modula WMS, which automatically transfers the information to our customer's secure Modula Cloud platform.

Using the latest in user authentication security, the individual machine or aggregate data can then be viewed on the customer portal, accessible on any device, from any location.
Each Modula Cloud instance allows you to create multiple users and determine the user access level for each.

Thanks to the Modula Cloud, you can monitor remotely the status of one or several plants regardless of their location. An interactive map lets you see all the points where a Modula product is operating, and with a simple click on the map, you can access the reports for each individual unit.

**CLOUD SYSTEM ARCHITECTURE**
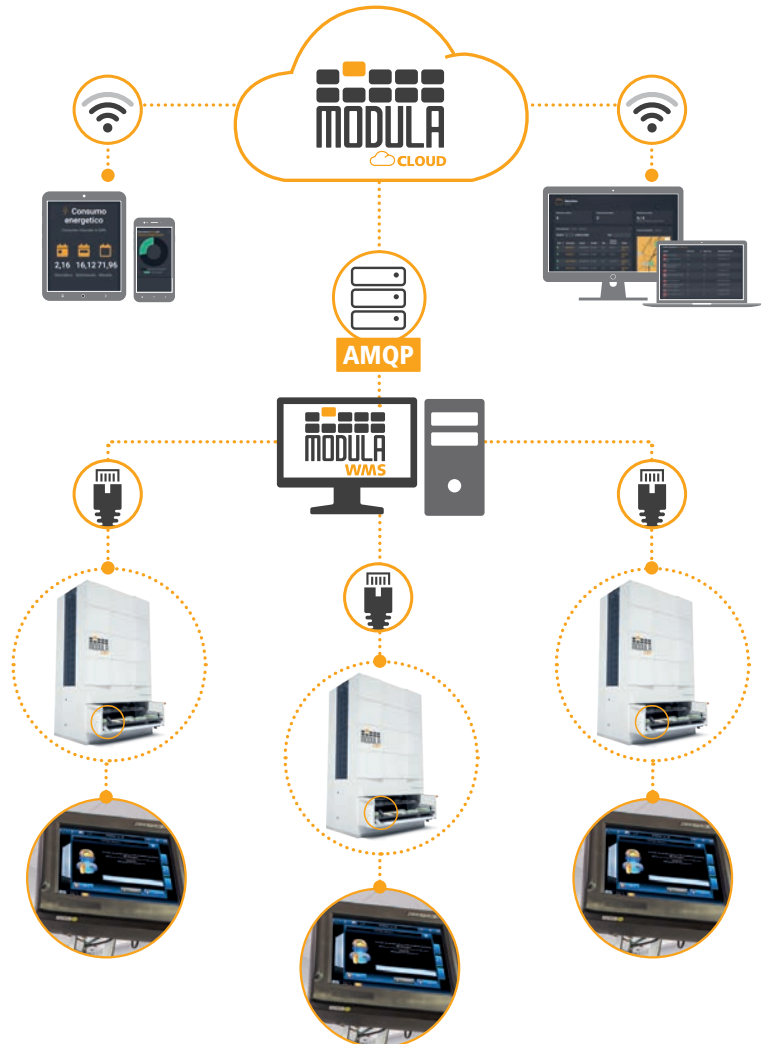
Integrated Warehouse Dashboards

Modula Cloud collects and processes all information and activities coming from your warehousing operations, including core system and telemetry data aggregated from all your facilities across any location, city or country, so that the data of each individual Modula storage unit or Modula-powered warehouse is always available and accessible.
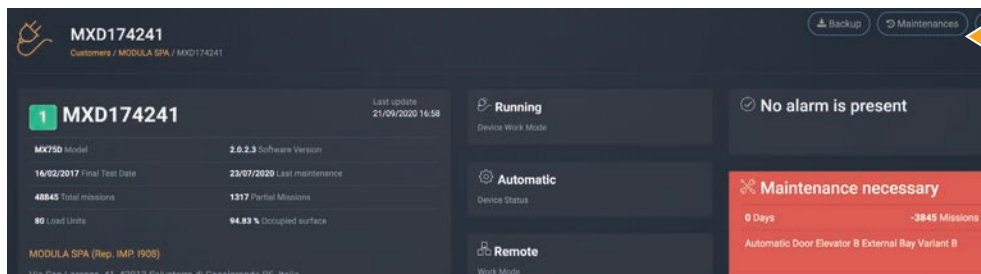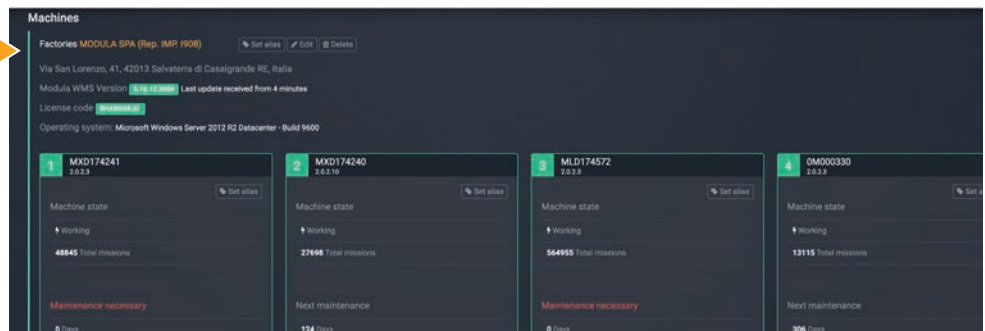
GENERAL PLANT STATUS

- Customer Contact
- Maintenance warning
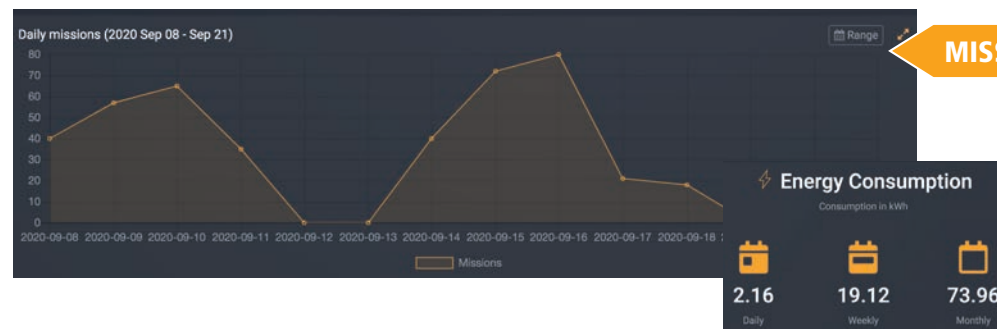- Total energy consumption
- Devices in error
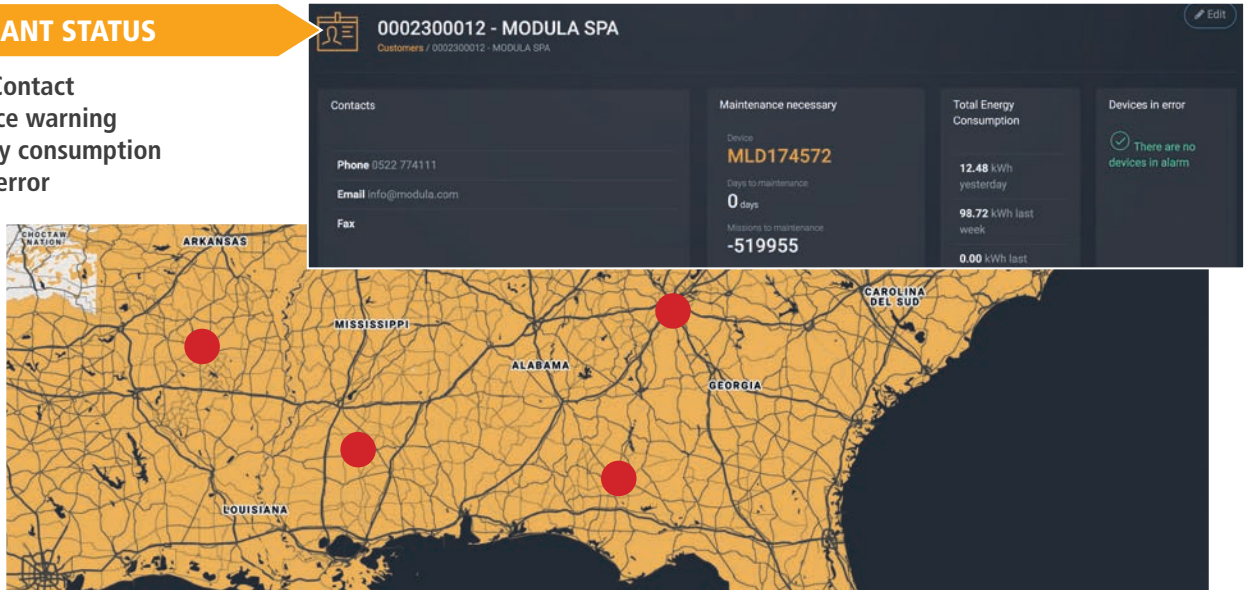
MODULA UNITS

- Modula WMS version
- License code
- Operating system
- Modula working order
- Modula OS version
- Maintenance overwiew

UNITS STATUS

- Model
- Total mission
- Portial mission
- Last maintenance
- Software version
- Total LU (trays)
- Alarms & Maintenance Warning

MISSION & ENERGY CONSUMPTION

- Number of missions per day or range
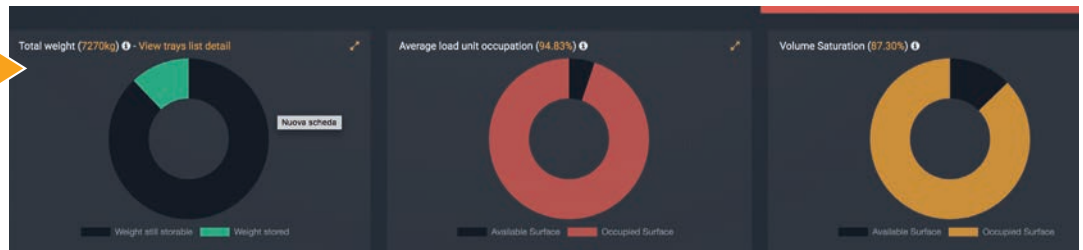- Machine energy consuption

Modula **CLOUD**

Remote End-to-End Warehouse Management

Real-time remote monitoring of storage systems, down to the tray

You'll know immediately if a machine is running properly, is offline, or is experiencing a problem that needs to be addressed. You'll get detailed reports on how efficiently the machine's trays are being used. If they're out of balance, you can inform your workers how to reallocate items. You'll see how many cycles have been run, orders have been filled in a given time period, energy consumed, and other relevant data.

TRAYS DETAILS

- Total weight
- Average trays occupation
- Volume saturation
- Detailed view (view all)

SATURATION

What are the advantages of Modula Cloud?

Always-on Supervision and Remote Control

You'll know immediately if a machine is running properly, is offline, or is experiencing a problem that needs to be addressed. You'll get detailed reports on how efficiently the machine's trays are being used. If they're out of balance, you can inform your workers how to reallocate items. You'll see how many cycles have been run, orders have been filled in a given time period, energy consumed, and other relevant data.

TOP 10 ALARMS

LAST 10 ALARMS

ALARMS EXPORTS

| | Copy | CSV | PDF | Print | |

A Direct, Always-On Line to Customer Care

Diagnoses from afar can be very complicated. Modula Cloud changes that. Because all of your storage system information about the machine needing attention - the type, the location, your contact information, and the problem itself - has already been captured in Modula Cloud, there's no need for your staff to provide those details.

With Modula Cloud, you just click and help is there. Modula Cloud features a "call from Copilot" function to immediately let Customer Care know you need assistance. No remembering of details, emails or phone calls are needed - a Modula technician will call you back right away, with everything pre-populated for them. Remarkably enough, 80 percent of machine alerts, issues or disruptions can be resolved with just a phone call. Our technicians are always there to guide you on how to fix the problem in real time.

Predictive maintenance

The Modula Cloud remotely collects data from the connected Modula storage units and runs algorithms on the information to create optimum maintenance schedules and assess when interventions are needed.

Each customer can access this information in real-time through the Cloud's secured portal, and share them with Modula's Customer Care service team. This continual feedback loop on the health status of the storage systems keeps everyone informed of any issues and automatically prompts alarms and work orders through predictive maintenance algorithms.
As a result, our customers keep their maintenance and management interventions to a minimum and avoid unexpected costly production downtimes.

MAINTENANCE

MXD174241 Maintenance history

Detected	Missions	Group	Priority	Executed	Missions (final)
07/02/2020 03:00	43721	Preventative Maintenance			
08/03/2019 13:20	-1	Preventative Maintenance		08/03/2019 13:20	33097
16/01/2019 03:00	30759	Preventative Maintenance		08/03/2019 01:00	33097
15/02/2018 01:00	-1	Preventative Maintenance		15/02/2018 01:00	16824
18/01/2018 03:00	15207	Preventative Maintenance		15/02/2018 16:37	16824

Entries from 1 to 5 of 5 entries   First < 1 > Last

Insights-Driven Dashboard and Analytics Customization

A Modula automated storage solution is an investment that pays big dividends: saving space and time, ensuring accuracy in order fulfillment, tracking inventories precisely, and creating a better, safer work environment.
With Modula Cloud, these advantages are enhanced with ease of control and visibility of your machines and operation, from any device, no matter where you are located. What's more, the Modula Cloud can be customized to suit your preferences for receiving information.
Do you want a dashboard with order lines filled on a certain day? Do you want reports sent directly to your email address with aggregate data on all your machines to check on their productivity? You can do this up and much more in just a few steps.

ACQUISITION EXCHANGE → **CONNECTION TO THE PLATFORM** → **STORAGE** → **ANALYSIS OF THE DATA** → **MONITORING ACTIONS**

Secure data and hosting

Modula Cloud has been developed leveraging technology solutions from Microsoft and is hosted on the secure Microsoft Azure cloud platform. The system uses the latest cryptographic systems for authentication and data exchange between the Modula WMS and the Modula Cloud. Authentication is provisioned through the HTTPS/TSL protocol, with RSA encryption at 2048 bits. Data is transferred securely through the AMQP protocol.

The Modula Cloud is equipped with the following industry-leading certifications, among others:
• ISO/IEC 27001, Management systems for information security
• ISO/IEC 27017, Code of conduct for security checks of information based on ISO/IEC 27002 for services in the cloud
• ISO/IEC 27018, Code of conduct for protection of personal information and identification (PII) in public clouds that act as PII processors.

Secure business operations:
Modula Cloud only gathers information about your machine's operations. It does not access or record any data about your products or business operations.

Modula World

Map labels:
SWEDEN, POLAND, CZECH REPUBLIC, FINLAND, GERMANY, BALTIC COUNTRIES, DENMARK, RUSSIA, BENELUX, BIELORUSSIA, IRELAND, UK, SLOVAKIA, FRANCE, HUNGARY, ITALY, ROMANIA, PORTUGAL, SPAIN, BULGARIA, TURKEY, SERBIA, SLOVENIA, MONTENEGRO, CROATIA, ISRAEL, CHINA, SOUTH KOREA, PAKISTAN, BANGLADESH, TAIWAN, THAILAND, VIETNAM, PHILIPPINES, INDIA, MALAYSIA, SINGAPORE, INDONESIA, AUSTRALIA, SOUTH AFRICA

CANADA, USA-ME, USA-OH, MEXICO, COLOMBIA, COSTA RICA, ECUADOR, PERU, BRAZIL, PARAGUAY, ARGENTINA, URUGUAY, CHILE

Modula is present in 5 continents with dealers and branches located in over 50 countries

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