DATAMARKET

Compass Connected and Smart

Industry 4.0 Platform for Machine & Device Manufacturers

Solution Presentation

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compass IoT Suite

Observe the Un-Monitored !

Discover the Un-Realized !

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Industry 4.0 for Machine & Device Manufacturers

Industrial IoT for Factories

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compass Industrial IoT

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Industry 4.0 platform for Machine & Device Manufacturers

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On-board to Industry 4.0 in weeks.

Ready to Use Cloud Based Industry 4.0 Platform For Machine Manufacturers

- Leverage our platform to make your machines be connected and smart.
- Collect valuable machine telemetry data from your products all over the world. Visualize and analyze them and drive predictive decisions.
- Enable your support team to access your products remotely and improve customer support quality. Decrease support operation cost.
- Give your customers access to your web portal to monitor their machines' status and performance.
- Integrate machines with MES and ERP systems through our secure APIs.

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Key Values for Machine Manufacturers

Quality	Cost Reduction	Competition	Evolution	Relation
Improve the customer quality and value perception. Increase customer satisfaction.	Decrease the Support and Maintenance costs by utilizing remote access and monitoring.	Compete and beat the competition in targeted markets.	Monitor and analyze the machines. Discover the improvement areas. Apply Predictive Maintenance. Improve customer satisfaction.	Establish long term dealer and customer relation. Discover new up-sell and cross-sell opportunities. Improve Profit.

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Key Values for Machine End Users

Any Time	Any Where	All the Data	All the Machines	All Integrated
Reach your machine performance data any time you like.	Monitor and track machine performance over the flexible easy to use Web interface from any where	Record your machine historic performance data. Track your machine Job and Operator performance.	Enable all your production line be monitored. Retrofit your existing machines to our Industry 4.0 platform.	Integrate your machine data with your MES and ERP applications.

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Government Tax Incentives for Industry 4.0 enabled platforms.

Governments statrted to give tax incentives to platform investments which support Indsutry 4.0

This approach has an increased popularity worldwide.

pwc

Industry 4.0
and tax incentives

The 2017 Budget Law introduces new significant tax incentives for companies investing in technological and digital transformation, in accordance with the Industry 4.0 model

The 2017 Budget Law allows a **250% tax benefit on the purchase of certain tangible assets** under the terms of Industry 4.0 and a **140% tax benefit on the cost of certain intangible assets** (software and development/system integration) related to investments in Industry 4.0 tangible assets.

When

Investments made by 31 December 2017 or 30 June 2018, provided that the seller accepted purchase order and advances of at least 20% of the purchase cost have been paid before 31 December 2017.

www.pwc-tls.it

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Compass Connected and Smart - Platform Features

Transform
Transform machines into Connected & Smart machines.

Collect Machine Data
Collect the machine telemetry data securely using standard method.

Always Connected
Transfer the machine data to Compass C&S platform easily, efficiently and reliably.

Store Data
Store and categorize the machine data centrally in Compass C&S Platform.

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Compass Connected and Smart - Platform Features

Visualize & Analyze

Analyze machine telemetry data through easy to use web pages.

Share with Customers

Share selected machine data with customers through intuitive web pages.

Inform Customer

Inform your customer operation teams about important machine warnings and errors.

Inform Support

Inform your Support Team about the critical errors. Open support tickets automatically.

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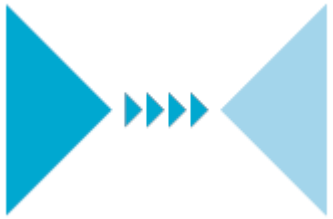
Compass Connected and Smart - Platform Features



Remote Support

Connect to the machine remotely through secure VPN connection for fast and effective customer support.

Corralate

Correlate the machine data with the physical events, ie. part replacement, calibration.

Predict

Predict machine failures and prevent unexpected machine down time.

Integrate

Integrate your machine data with 3rd party MES and ERP platforms using secure APIs.

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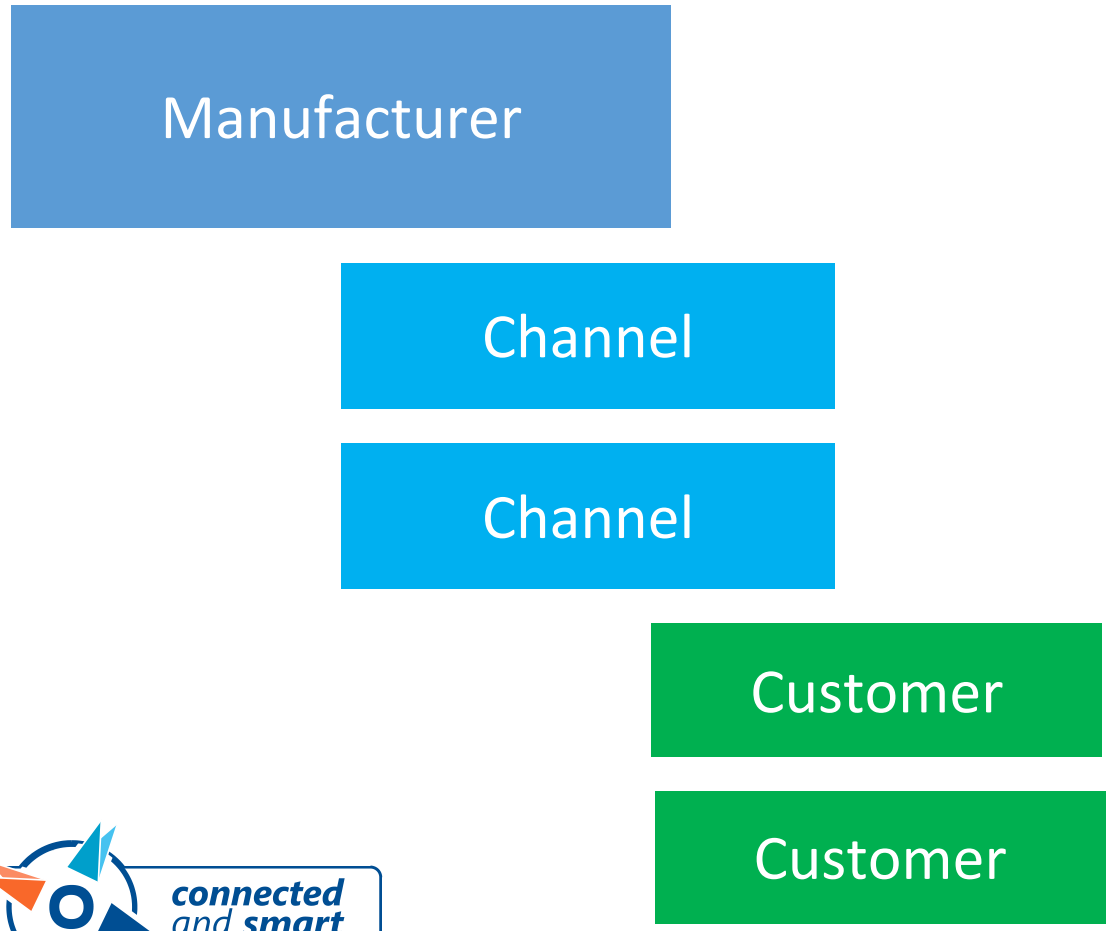
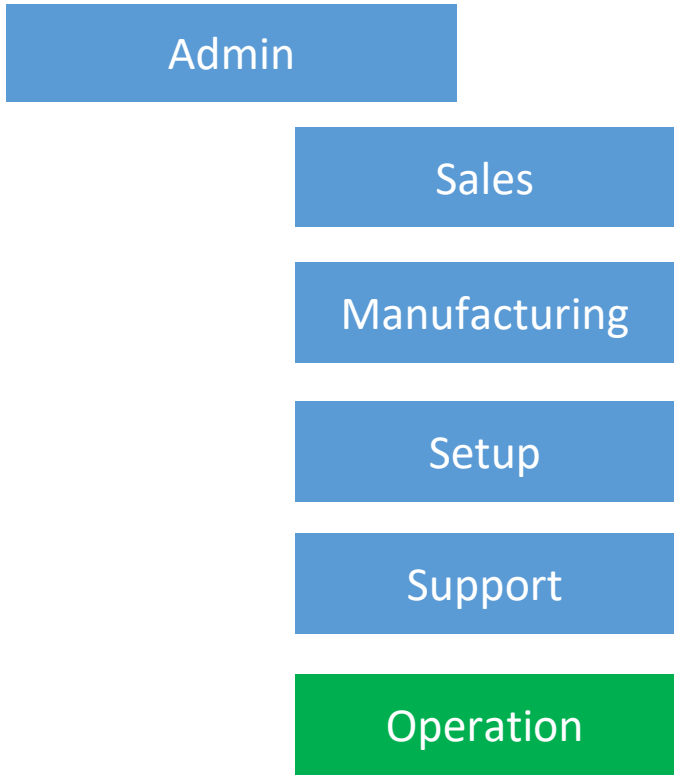
Compass Connected and Smart - Platform Features

Hierarchic Organization, Role Based Access





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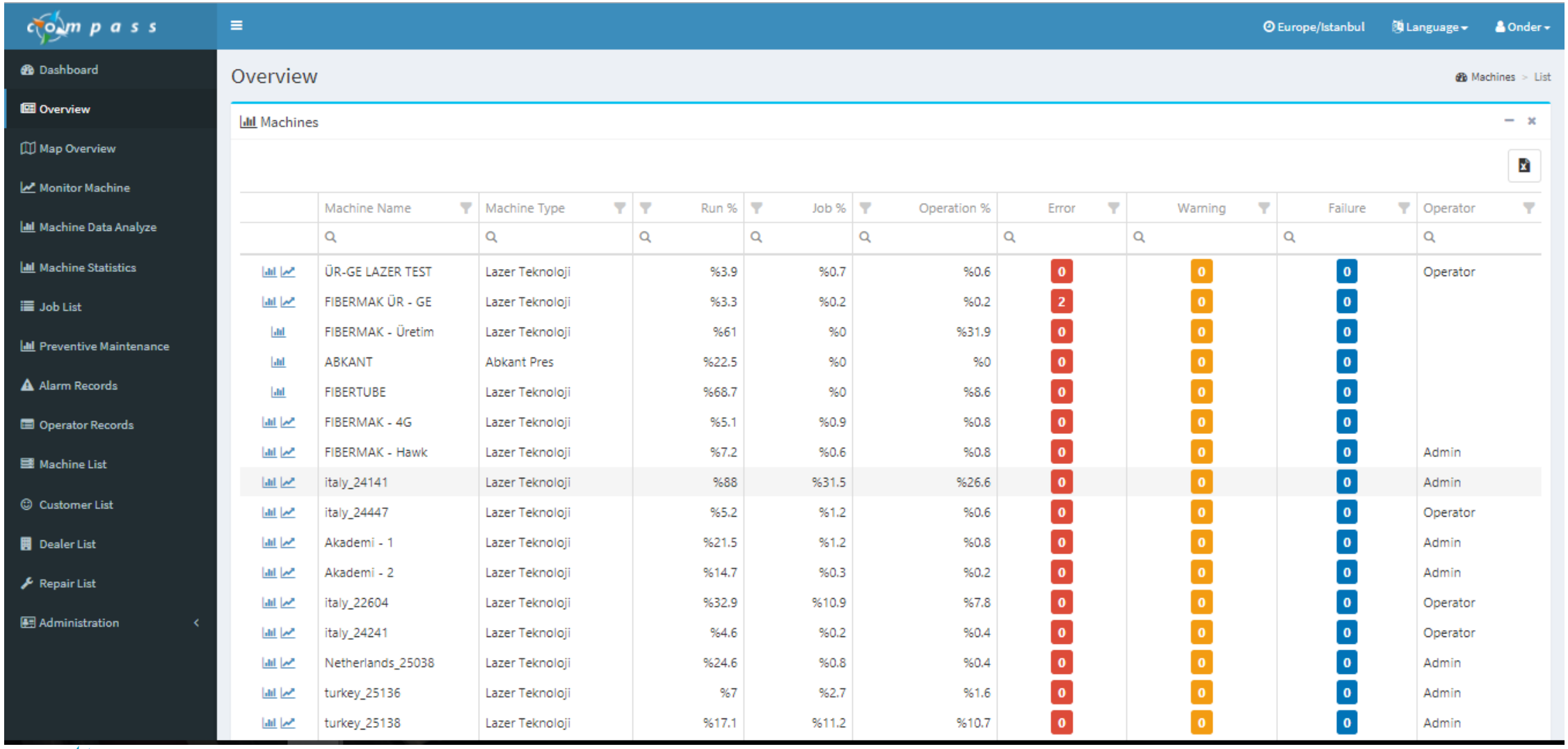
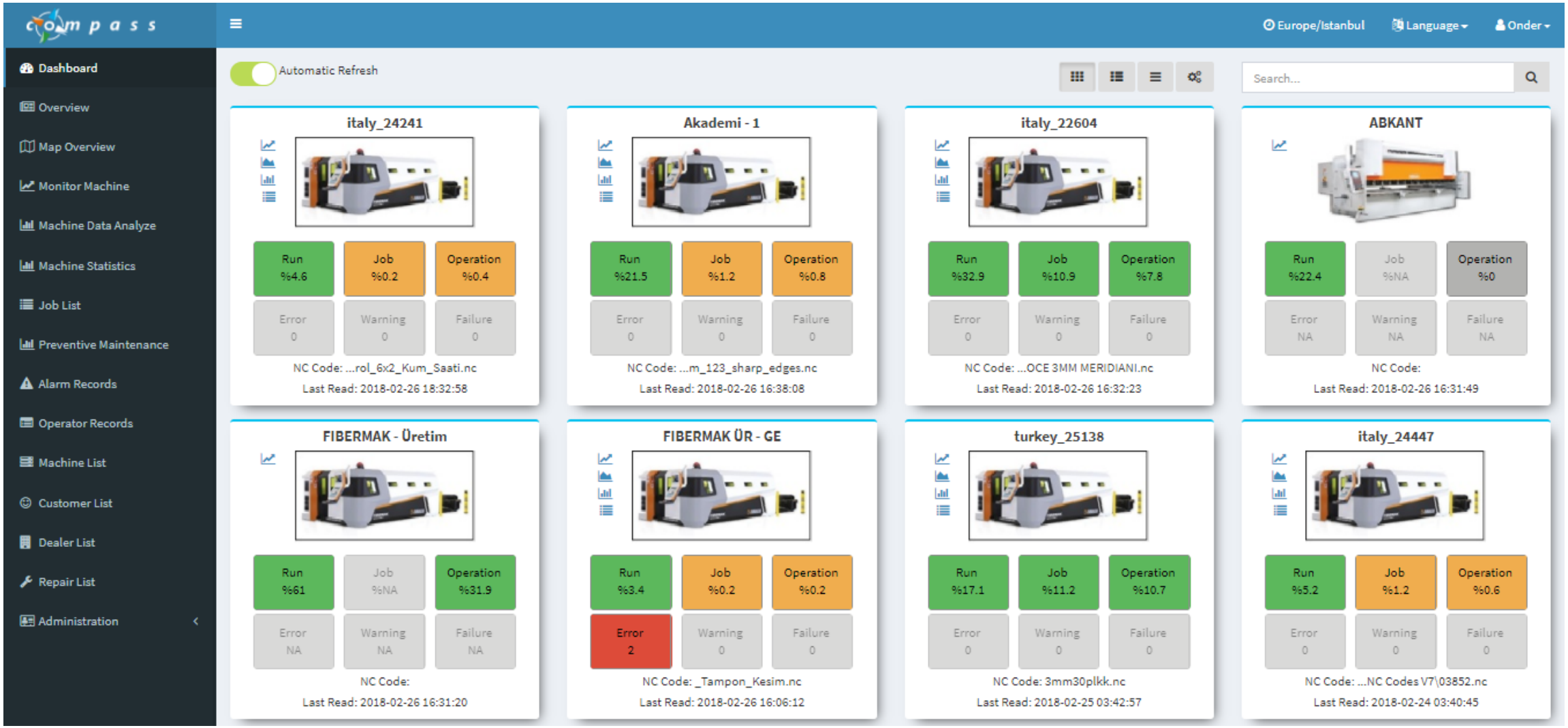
Machine Overview



Machine Name	Machine Type	Run %	Job %	Operation %	Error	Warning	Failure	Operator
ÜR-GE LAZER TEST	Lazer Teknoloji	%3.9	%0.7	%0.6	0	0	0	Operator
FIBERMAK ÜR - GE	Lazer Teknoloji	%3.3	%0.2	%0.2	2	0	0	
FIBERMAK - Üretim	Lazer Teknoloji	%61	%0	%31.9	0	0	0	
ABKANT	Abkant Pres	%22.5	%0	%0	0	0	0	
FIBERTUBE	Lazer Teknoloji	%68.7	%0	%8.6	0	0	0	
FIBERMAK - 4G	Lazer Teknoloji	%5.1	%0.9	%0.8	0	0	0	
FIBERMAK - Hawk	Lazer Teknoloji	%7.2	%0.6	%0.8	0	0	0	Admin
italy_24141	Lazer Teknoloji	%88	%31.5	%26.6	0	0	0	Admin
italy_24447	Lazer Teknoloji	%5.2	%1.2	%0.6	0	0	0	Operator
Akademi - 1	Lazer Teknoloji	%21.5	%1.2	%0.8	0	0	0	Admin
Akademi - 2	Lazer Teknoloji	%14.7	%0.3	%0.2	0	0	0	Admin
italy_22604	Lazer Teknoloji	%32.9	%10.9	%7.8	0	0	0	Operator
italy_24241	Lazer Teknoloji	%4.6	%0.2	%0.4	0	0	0	Operator
Netherlands_25038	Lazer Teknoloji	%24.6	%0.8	%0.4	0	0	0	Admin
turkey_25136	Lazer Teknoloji	%7	%2.7	%1.6	0	0	0	Admin
turkey_25138	Lazer Teknoloji	%17.1	%11.2	%10.7	0	0	0	Admin

Real Time Dashboard



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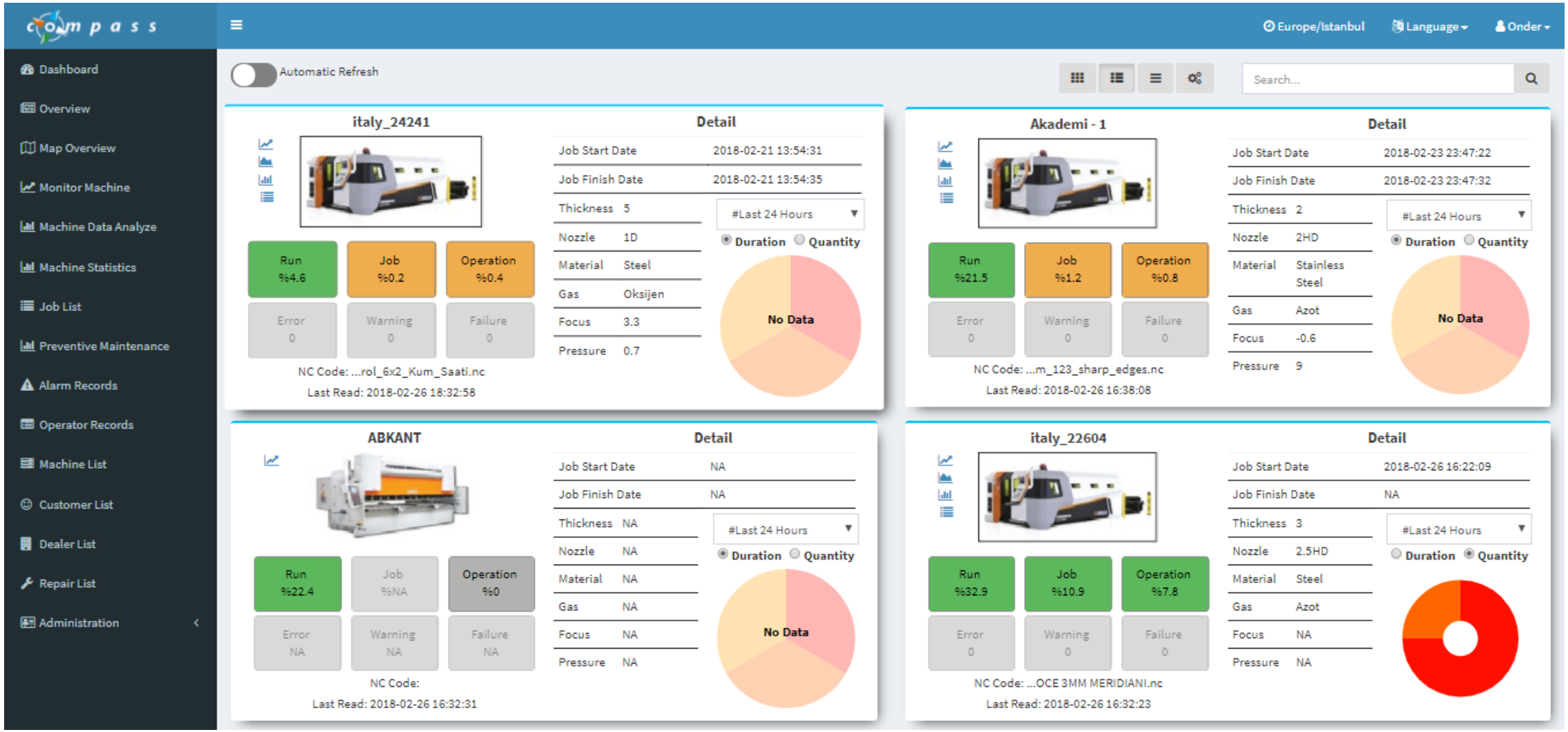
Real Time Dashboard



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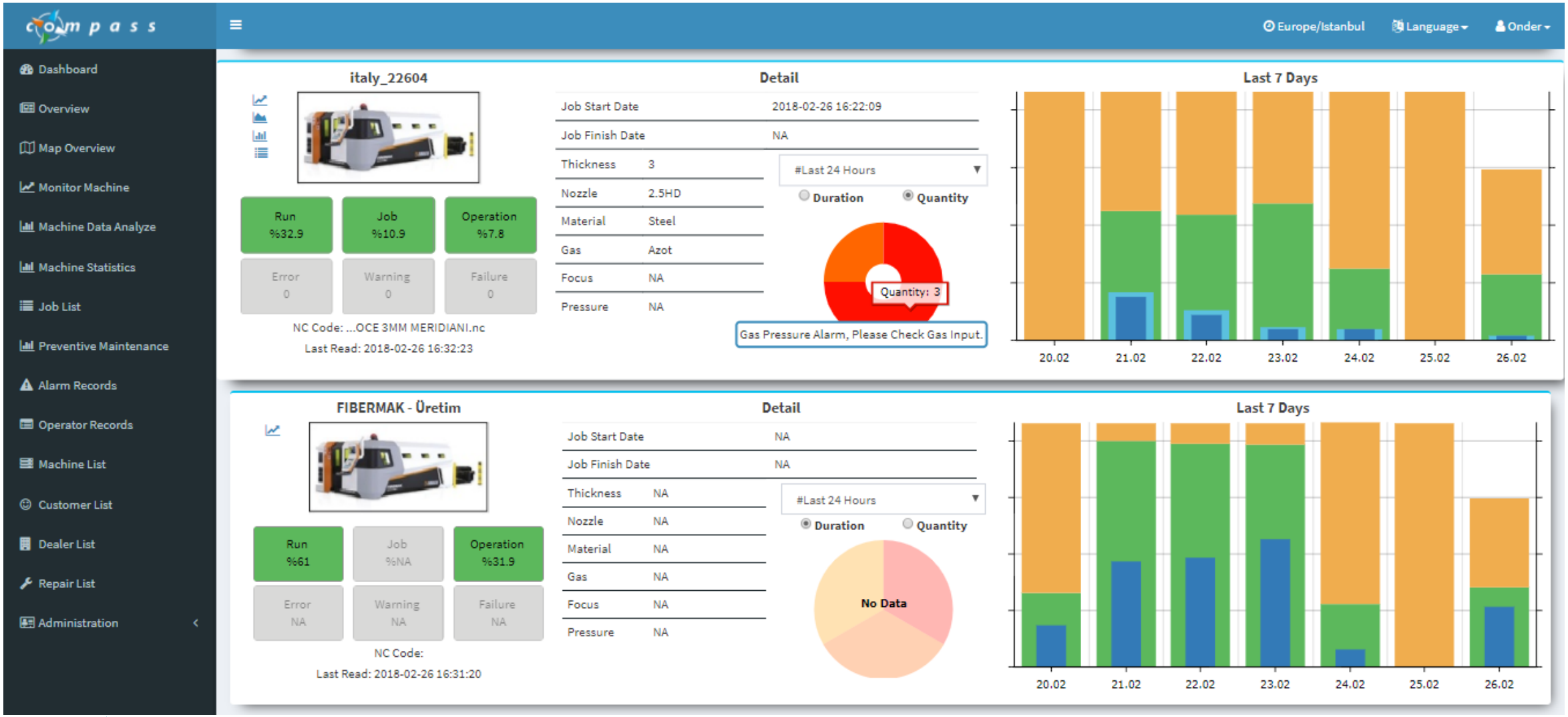
Real Time Dashboard



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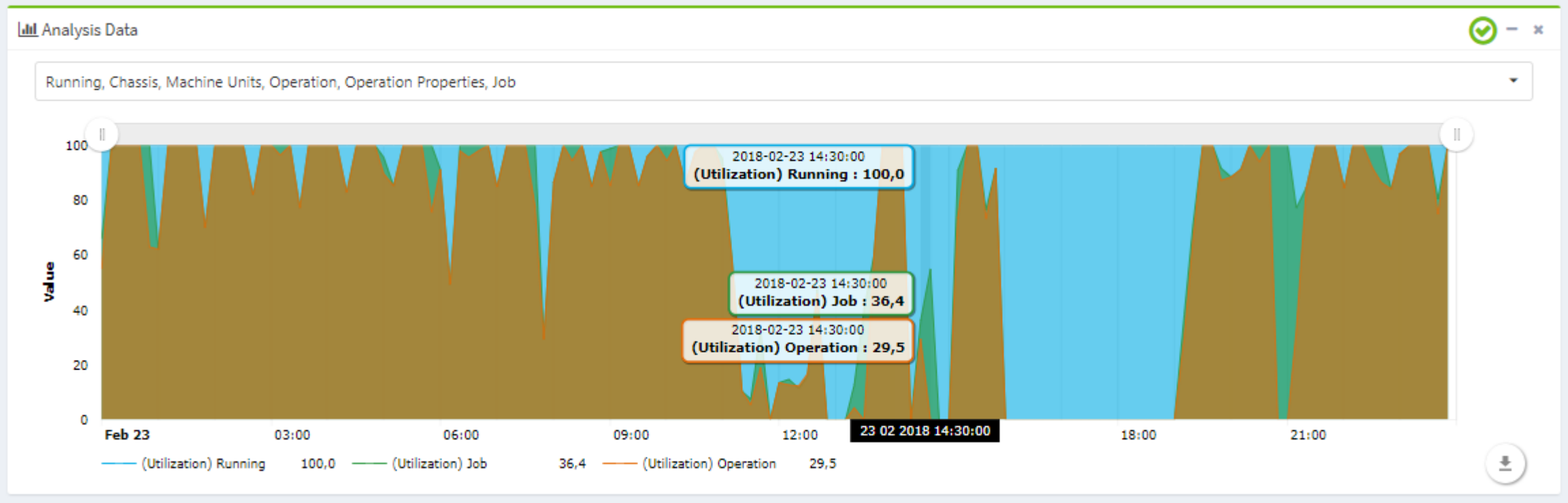
Machine Utilization Monitoring

OEE – Overall Equipment Effectiveness Analysis



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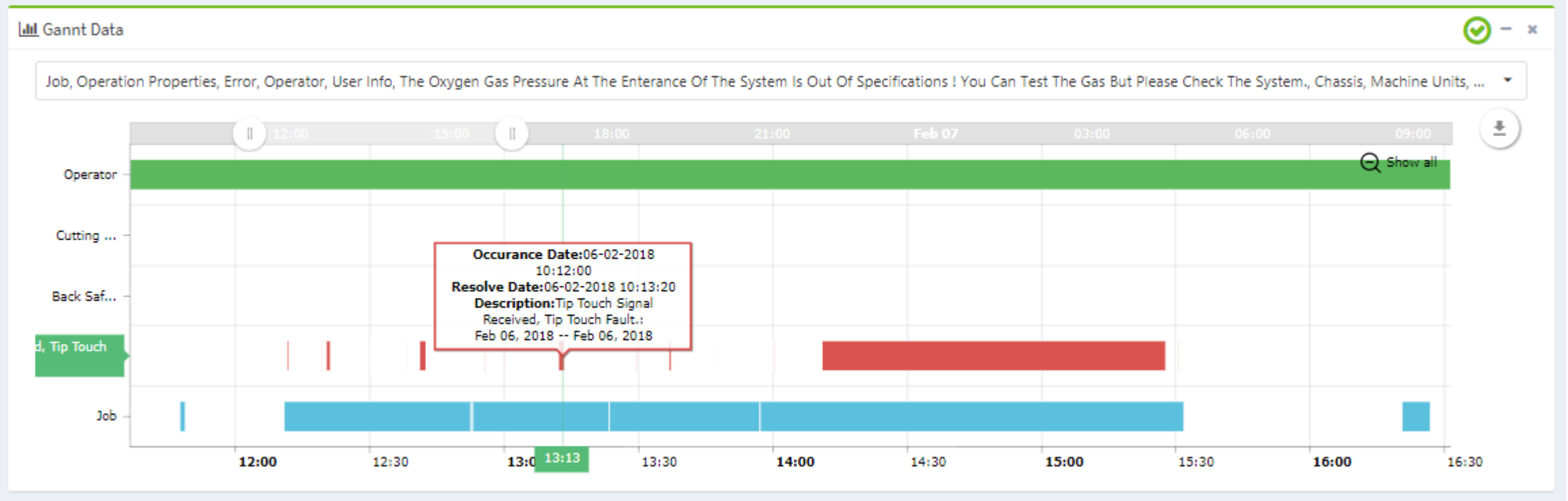
Machine Time Line Analysis

Gannt diagram based machine time line analysis



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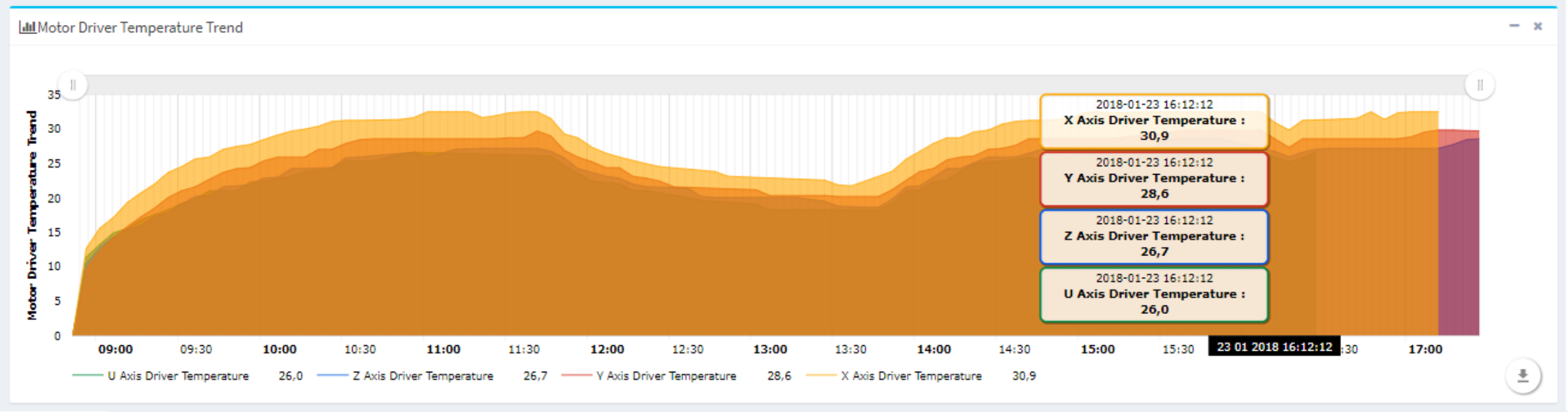
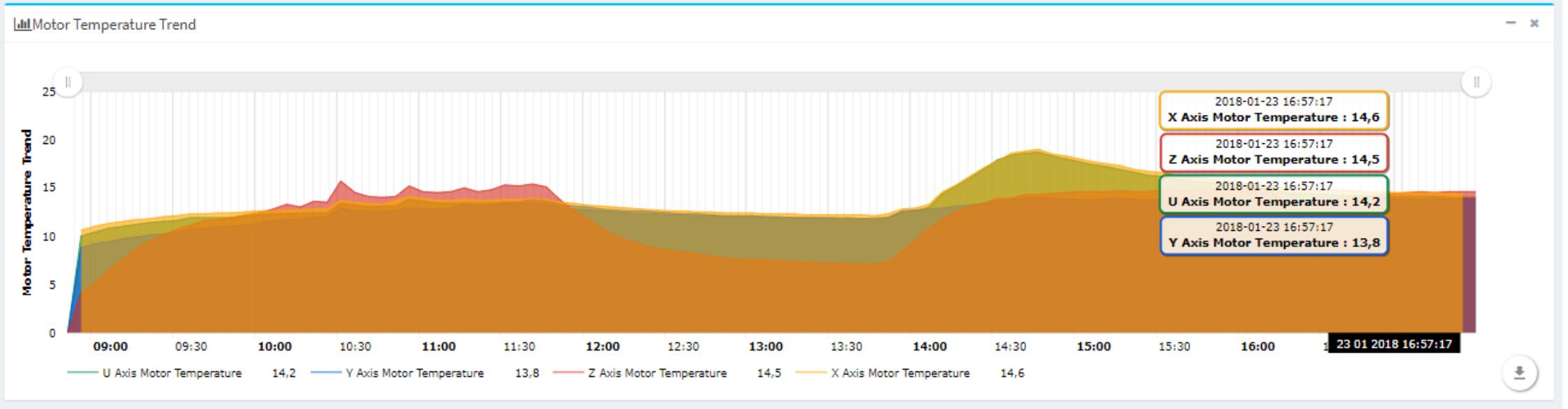
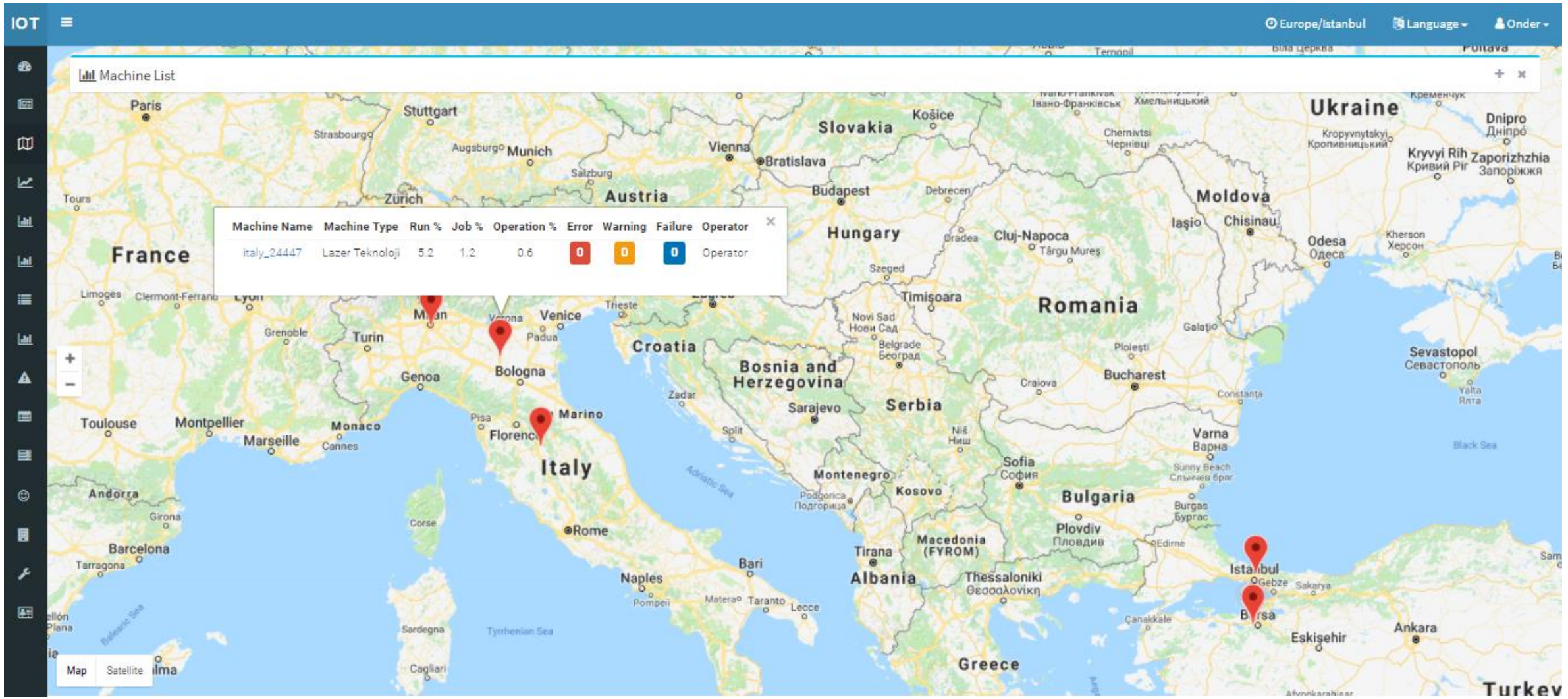
Preventive Maintenance and Anomaly Detection





Map View



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ERMAKSAN
INNOVATIVE TECHNOLOGIES

Success Story - Ermaksan

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About Ermaksan

- Ermaksan is a leading industrial organization that shapes the sheet metal processing machines sector with its strong R&D, that produces high-quality machines with high technology with more than its 800 qualified staff in its modern production facilities extending to an area of 96.000 m2.
- In a 10.000 m2 field, it continues to carry out future oriented R&D works such as Fiber laser technologies, new machine models; Industry 4.0 applications and 3D printer (additive manufacturing) machine.
- The machines produced by Ermaksan now operate in 110 countries.

Ermaksan Products

Laser Cutting

Press Brake

Plasma Cutting

Punch Press

Shear Cutting

3D Printer

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İletişim

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