

API M-IoT

BRIGHT WIRELESS SOLUTION

Remote Management web based platform

FIELD ORIENTED



- * **Minimize scheduled and emergency on-site service**
- * **Optimize service operations through efficient machine/ device usage**
- * **Help to minimize expensive equipment downtime**
- * **Protect installations, site assets and the environment**
- * **Maximize your return on investment**

Today's need for efficiency, effectiveness, cost of ownership reduction drive IoT (Internet of Thing) evolution and introduction across all the industrial market sectors.

Implementing an efficient remote management of installations, machines and equipment is the natural way monitoring systems are evolving to.

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API M-IoT

SMART SOLUTION

Enables to connect and manage industrial installations, machines and devices via the Internet.
provide a seamless and scalable remote management solution

Gateways

A range of both wired and wireless industrial gateways and accessories that enable remote communication with equipment. The gateway connects to your equipment in the field, sends data (encrypted) via mobile phone network or Ethernet to the web based remote management platform in the cloud.

Data center

Secure, cloud-based data center for acquiring and storing equipment data transmitted through the gateways, enabling monitoring and control of devices, machines and installations. provides a breakthrough solution for secure access through firewalls and mobile telecom networks.

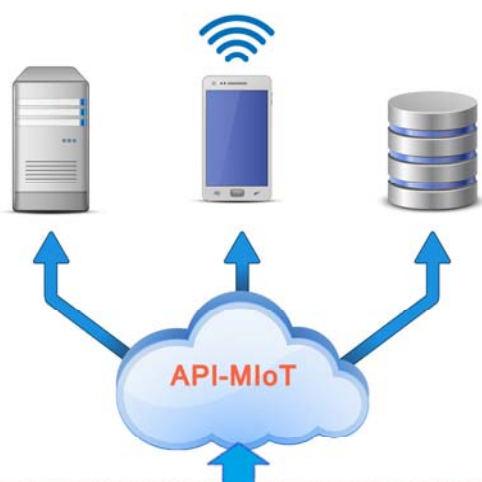
Integration with 3rd PARTIES

operation API can be used to import data to other systems to refine the data and combine with data from that system. The operation API will be available for both SOAP and REST. Customer can get access information related to:

- Customer Account
- System Configuration (Parameter, Alarm)
- Data Log (Values, Hour Aggregated Values, Day Aggregated Values)
- Alarm (Alarms, acknowledge, History)
- Live data (Error Codes, Status, Values)
- User (authenticate User)

"if you want to improve efficiency related to products
and service then you should contact us"





FIELD APPLICATION

EASY SET UP

- ⇒ No IT expertise required
- ⇒ No firewall issues
- ⇒ No VPN required
- ⇒ No static IP needed No programming No hassles

OPERATION STREAMLINE

- ⇒ Minimize scheduled and emergency maintenance
- ⇒ Optimize operations through efficient equipment usage
- ⇒ Minimize equipment downtime
- ⇒ Enable remote control of field equipment from everywhere
- ⇒ Provide a secure platform for alarm management, equipment trends, project management and report generation

CLOUD TECHNOLOGY

- ⇒ Continuous improvements with no need for software upgrades.
- ⇒ Easy integration with other tools and applications.
- ⇒ Reduces the need for large capital investments

SCALABILITY

- ⇒ Software is provided as a service
- ⇒ no need for software installations
- ⇒ lower maintenance costs.
- ⇒ Instant, secure access from any location and any platform



FEATURES

VISUALIZE, MONITOR AND CONTROL

Through the web based user interface the system provide secure access for authorized users of field installations. Thanks to the HMI designed by API to specifically meet the application the customer has an intuitive dash board to have a immediate look at the equipment parameters (current values, trend data, ...)

ALARM MANAGEMENT

The web based platform provides instant information regarding both current and historical alarm status of each remote site. Thresholds are configured and notifications distributed to the different users of the system, via SMS or e-mail, which allows equipment health and system operation to be monitored

DIAGNOSTICS AND DATA TRENDS

By analyzing historical data and monitoring trends, it is possible to learn how equipment and devices perform in the field. Visualized trends make it easy to analyze field data and spot deviations. For detailed analysis, data can be exported to tools such as Microsoft Excel or similar.

INSTANT/SCHEDULED REPORTING

The web based platform integrate a report manager providing professionally looking report. Detailed reports can be generated instantly or scheduled directly to your inbox.

GLOBAL POSITIONING

GPS option available to keep under control each device location. When equipment alarms occur, they are instantly highlighted in the in-built Google® maps and their precise GPS co-ordinates can be visualized, thus minimizing equipment downtime.

WEB ACCESS

log into a portal page to access your equipment via a regular PC, tablet, smartphone etc. You can also get alarms via email or SMS.

REMOTE ACCESS:

Configure and operate equipment remotely. Thanks to this feature it is possible to open up a secure connection to remote equipment and to configure or operate it from any location. For example, with a gateway connected to a PLC, it is possible to perform remote debugging or re-programming the PLC from any location using your regular PLC configuration software just as you would if you were on site. All it is needed is to install a driver on the PC and it will be connected to the remote PLC

Industrial machinery

Benefit:

Avoid emergency repairs, minimize down time, improve logistic control.

Features:

Store and analyze process data

Monitor equipment health

Notify service engineers in the event of a problem
On time inventory control



Building automation

Benefit:

Optimize energy consumption of the facilities.

Features:

Monitor ventilation, heating, cooling and security systems, on time maintenance to keep high level of efficiency



Tank management

Benefit:

logistics and content levels under control.

Features:

Monitor tank level and temperature

Schedule stock-up refills



Pump and pump stations

Benefit:

installations under control; maintenance on condition

Features:

Notify service engineers on operation interrupts

Instant access to equipment status



Renewable energy

Benefit:

keep the energy return on investment (EROI) under control and reduces unexpected downtime.

Features:

Instant access to performance data

Access to critical parameters

Alarming on unexpected behaviors



DASHBOARDS

Alarme generale
Temperature: 14.4 °C
Livello: 86.39 m
Clasto aerobatico

Live values

Nome	Valore
Clasto	86.39
Temperature	14.4

Live values

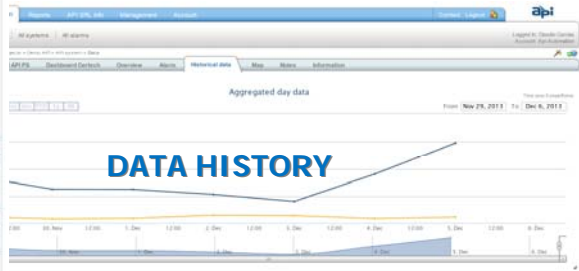
Nome	Valore
Clasto	86.39
Temperature	14.4

Clasto Log Graph

Temperature Log Graph

Alarms

Source	Alarm	Time	Severity	Status	Action



ALARM HISTORY

Alarm History

Alarm	Alarm	Start date	End date	Close	Severity	Type	Alarm per page
Modulo1	Temperature Bassa	2013-12-05 08:40:34			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 15:17:27			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:18:07			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:18:47			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:15:07			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:14:47			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:18:07			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:13:47			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:13:27			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:13:47			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:13:27			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:11:27			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 14:11:07			Major	Normal	15.0
Modulo1	Temperature Bassa	2013-12-05 14:10:47			Major	Normal	9.9
Modulo1	Temperature Bassa	2013-12-05 13:15:27			Major	Normal	15.0
Modulo1	Serbitolite Pieno	2013-12-05 06:40:07			Critical	Normal	45.6038
Modulo1	Serbitolite Pieno	2013-12-04 18:28:40			Critical	Normal	83.4482
Modulo1	Temperature Bassa	2013-12-03 15:51:21			Major	Normal	9.9

1 2 3 4 5 6 7 8 9 10

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