

M2MGO

The Content Management System for the Internet of Things

M2MGO

The **next generation** Internet of Things **application platform**



UhligJens



Jens Uhlig

Devices: iCEP

- Escalade's iCEP (Intelligent Connected Elevator Panel), is a powerful platform for user interface and system management of elevators, offering numerous applications.



Application Requirement

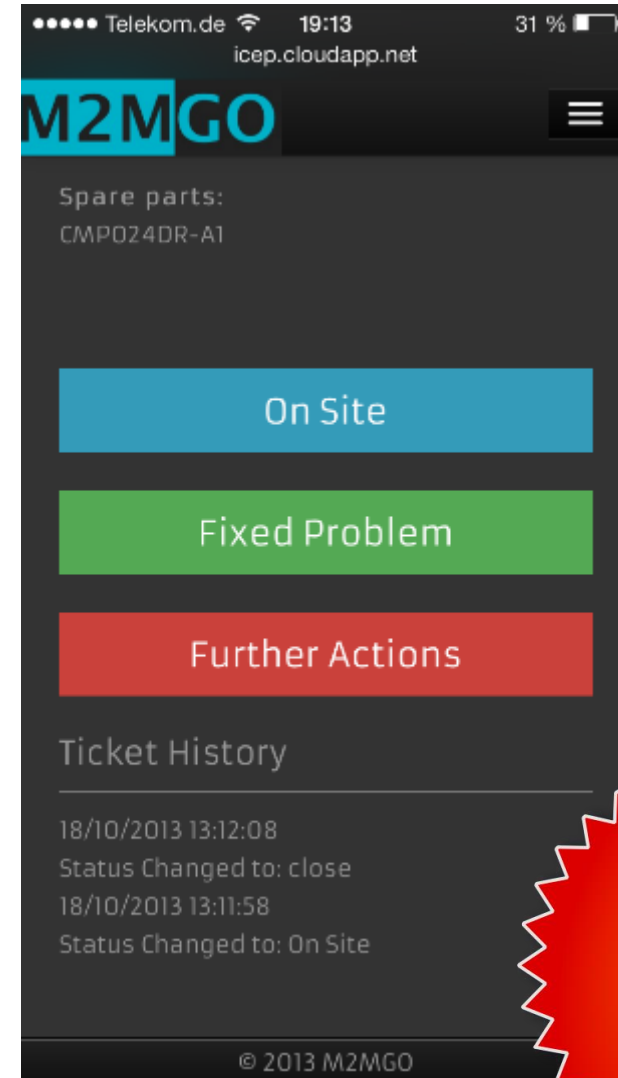
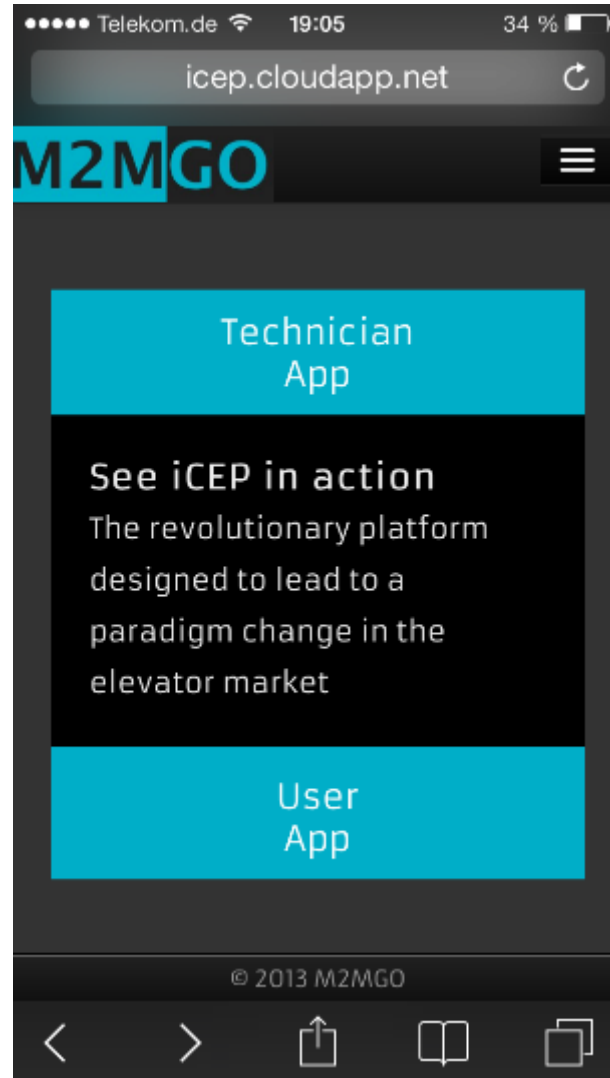
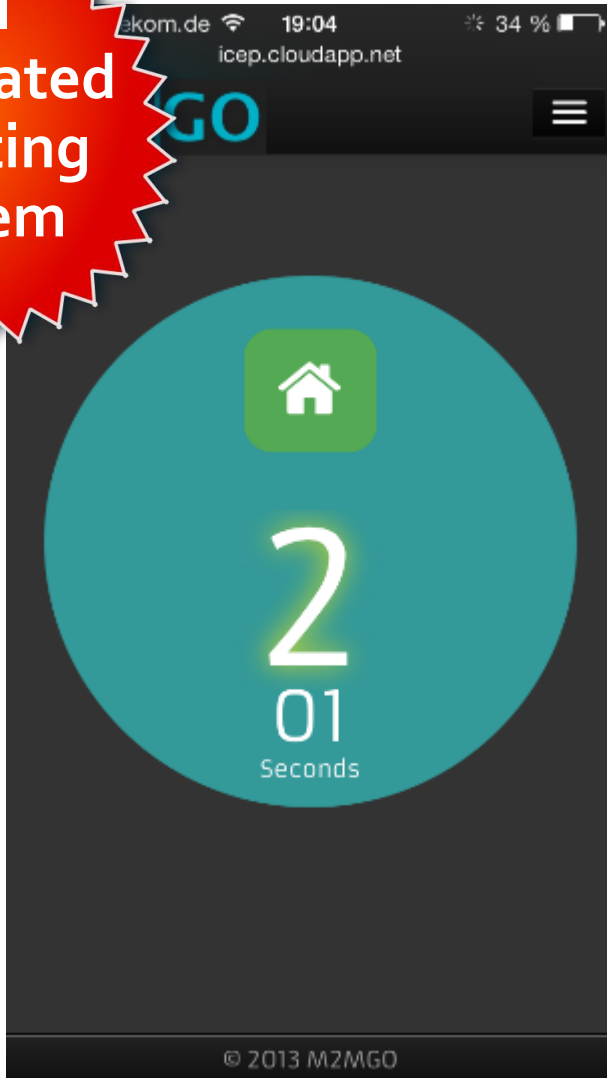
1. User App

- Call the personal elevator
- Display current floor
- Time to arrival Countdown

2. Technician App

- On Error messages an ticket will be created automatically and assigned to the technician in charge.
- Each technician sees his assigned elevators and their actual status and his tickets.
- A ticketing work flow will guide the technician on site with information to spare parts and a history of the elevators events

incl
automated
Ticketing
System



effort
5
days



“We are an Israeli startup developing smart and connected IoT solutions for elevators. We are working with M2MGO for over a year in designing very advanced cloud web and mobile solutions based on their flexible and powerful platform. Those include applications unique to the elevator industry. We are very pleased with the professional team and great support from M2MGO.”

Guy Gotlieb

VP Marketing & Business Development

Escalade Innovative Solutions Ltd.

<http://iescalade.com>



About the Devices:

The state-of-the-art Tixi industry cloud gateways combine all the functions of a fault indication unit and remote control module for any PLC in one affordable device.



Remote Control of a block heat and power plant

- Real time remote monitoring of the power generator parameters and historical data in charts
- Possibility to upload big log files from the device.
- Switch On/Off the different parts of the device.
- Alarm and notification system

Smart Water Reservoir

- Monitor and control Water reservoirs with integrated water pumps for a local water supply company

Overview Data Monitor Devices System Location

Biogas

Durchfluss [m3/h] 13.03

Gasfüllstand [%] 2.04

Lambda regler

Istwert 0.00

Sollwert 0.00

OFF

Manuell Auf Manuell Zu

Ladefluftemperatur [°C]

Istwert 162.33

Sollwert 200.61

Stellgröße 50.01

Id	Value
Ölwechselstunden	5,02
Localization	
Ölwechsel	5,02
leistung	85
Betriebsstunden	5,82
Ölwechselintervall	5,02
Status	running

The diagram shows a central engine block with a motor on the left. A vertical pipe with a valve and a sensor (M) is connected to the top. A temperature sensor (M) is connected to the side. A motor (M) is connected to the bottom. A temperature sensor (M) is connected to the right. A motor (M) is connected to the bottom right. A motor (M) is connected to the top right. A motor (M) is connected to the bottom right. A motor (M) is connected to the bottom right.

Motortemperatur [°C]

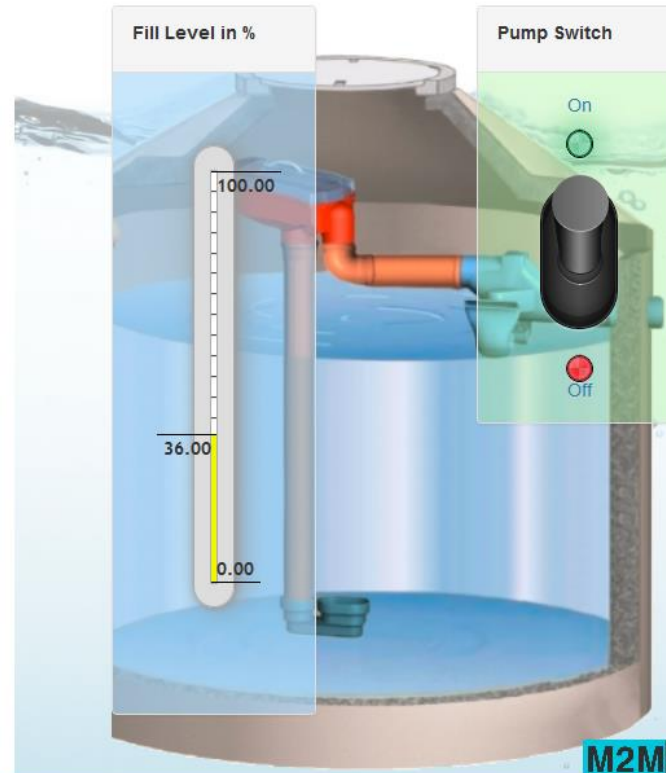
Istwert 156.28

Sollwert 150.00

Start Stop

effort
4
hours

Overview / Dashboard



Id	Value
Fill Level	36
Log	ok
Error	False
Pump	True

Attribute	Value
MAC	0E-8B-FD-46-31-14
Location	Italy
IP_Addr	12.34.23.13
Group	reginoal site

Logging Messages

Sensor	Timestamp	Value
Log	09.04.2015 07:59:49	ok
Log	09.04.2015 07:59:06	wrong parameter
Log	09.04.2015 07:58:10	need maintainance
Log	09.04.2015 07:57:35	ok
Log	09.04.2015 07:57:23	wrong parameter

Show 5 entries

DeviceName	Fill Level	Connected
111	99	●
222	86	●
333	36	●
444	88	●
555	97	●

Showing 1 to 5 of 8 entries

Previous Next

Smart Water Management

On the left you can find a navigation. It is a table with paging of entries. Below you can find an aggregated view over all containers, including the number of errors, the average fill level and the active pumps. The device names in the tables are links to their dashboard page.

Aggregated Water Tanks View

Group	Damaged Tanks	Average Fill Level	Active Pumps	Total Number of Tanks
Headquater	0.00	52.00	1.00	5
reginoal site	1.00	73.67	1.00	3

powered by



effort
4
hours

About the Devices:

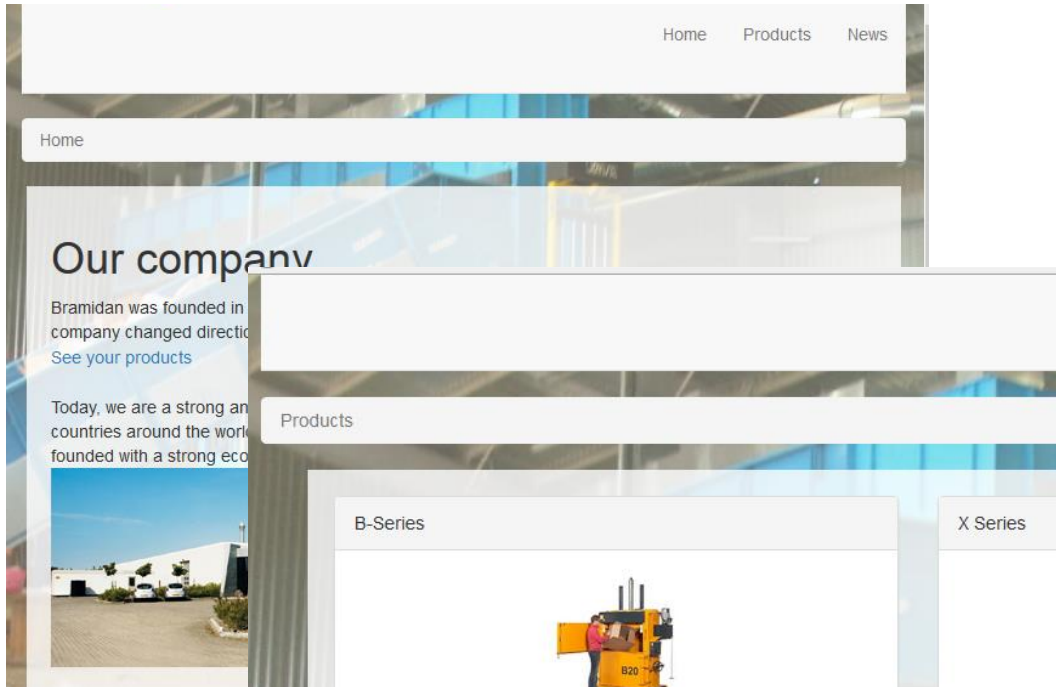
- The bins are already connected to the internet with a GSM modem. They offer SMS and mail functionalities.
- They need to add additional cloud service to provide a true value proposition to their customers



Application Requirements


- Create a web portal to visualize the data from the assets in different layers
 - Factory, Distributor, Sub-distributor, Key Account, End-user
- Integrate an existing sim card management system
- Get the data from the existing on premise data storage





Products

B-Series



- Solid and reliable construction
- Classic design - cylinders on top
- Low noise level - 62-64 dB
- Waste types - cardboard and soft plastic
- Optional - vertical door for easy handling

X Series

- Durab
- Compa
- Extra l
- Waste
- Option

Your connected Devices Overview

click on a device to go to the dashboard.

DeviceName	Press Cycles	Motor Runtime	E Stops	Run Time	Days Since Service	Bales	Connected
m2mgo-test	75	14,52	23	14,52	75	75	●

Showing 1 to 1 of 1 entries

Products / Dashboard for Vertical balers

Bales

Presse

Run Time

Days since Service: 75.0

Motor Runtime

Emergency Stops: 2

Zoom: 1H 1D 1W 1M All From: Mar 9, 2015 To: Mar 9, 2015

09:10 09:20 09:30 09:40 09:50 10:00

23. Feb 9. Mar

deskanzleramt Reichstagsgebäude Dülles-Allee Ebertstraße Gendarmenmarkt Franz

Map Satellite Pergamonm

effort
6
hours



Welcome to BlueWind

Bluewind is a imaginary company, builded to demonstrate the drill down feature from M2MGO.

To start with the demo please go to the [Country Overview](#) Page

The Devices

Bluewind has a lot of windmills connected over the world.

The goal of this application is to offer an overview about the actual system state, and give the technician employee enough information so they can act bevore a system failure.

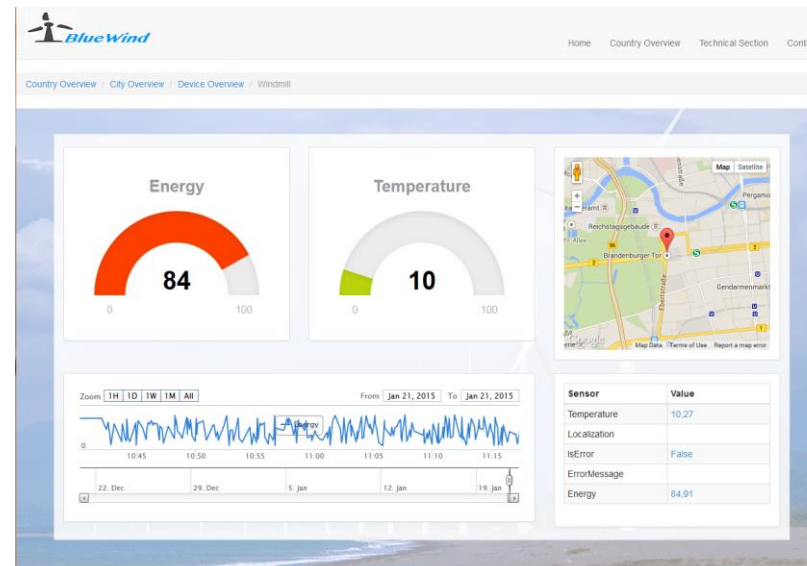
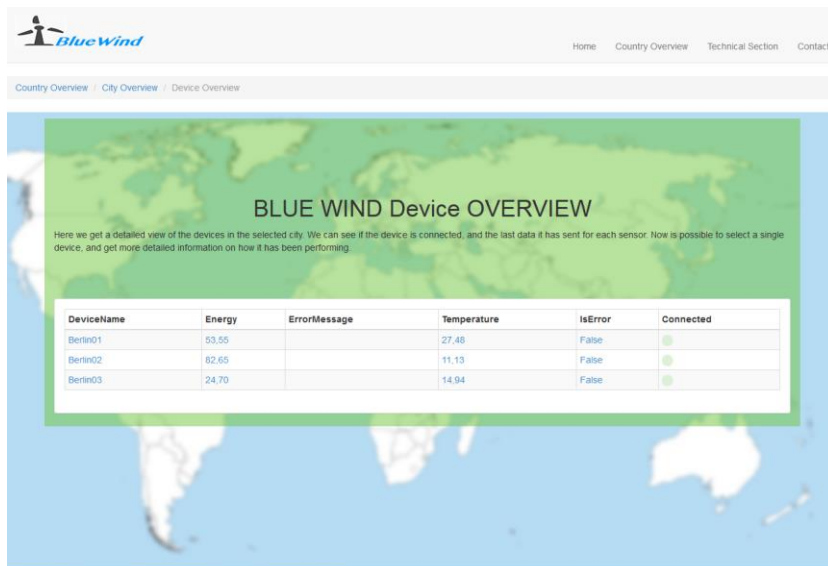
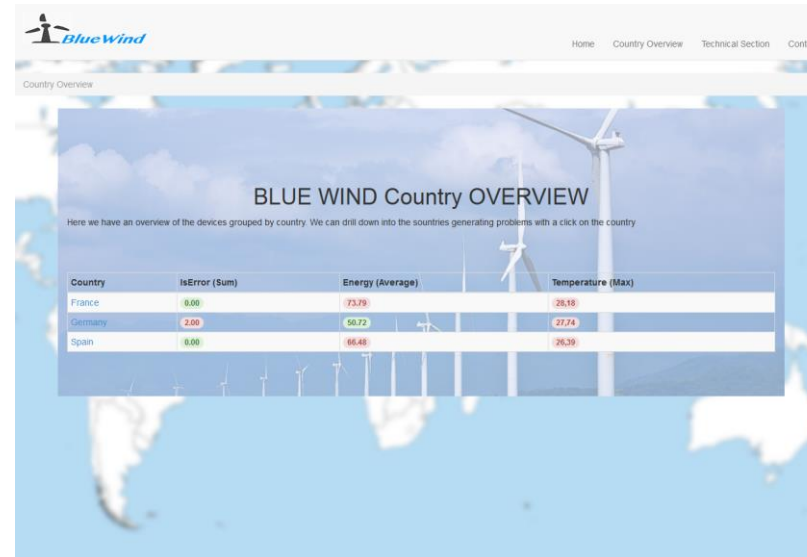
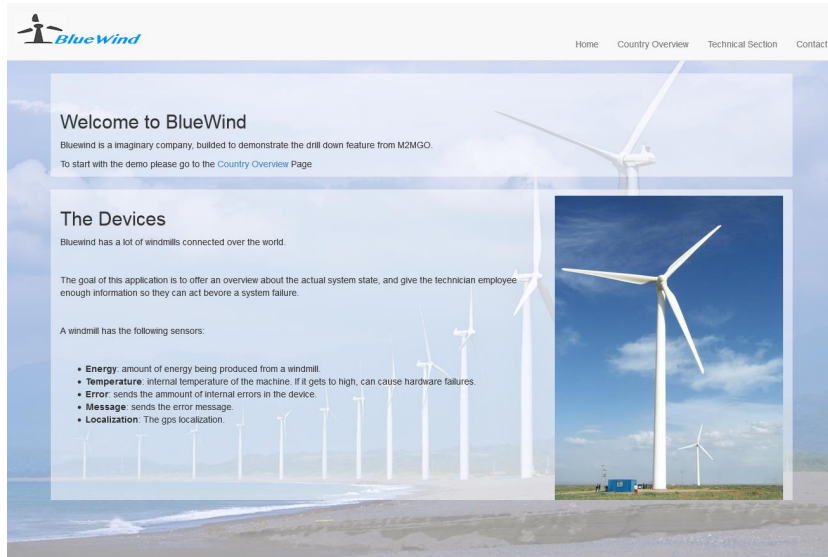
A windmill has the following sensors:

- **Energy:** amount of energy being produced from a windmill.
- **Temperature:** internal temperature of the machine. If it gets to high, can cause hardware failures.
- **Error:** sends the ammount of internal errors in the device.
- **Message:** sends the error message.
- **Localization:** The gps localization.



Requirements:

- Monitor energy produced
- Monitor internal temperature
- Over 10000 devices over the world
- Fast overview over all the devices
- On failure, send a technician



effort
2
days

- Landing page with static information
- Grouped views by global region, country and city
- Device Dashboard with historical data
- Remote configuration capabilities

About the Devices:

- Huntman is a petrochemical company that has a lot of industrial ovens and other industrial machines.
- Right now they don't know how many resources these machines use.



Application Requirements

- The consume of all the machines has to be monitored.
- On each machine an application will be displayed, letting the users know what is the current consume, and how was in the last days.
- Data needs also to be aggregated and displayed depending on the machine type and on the it's section.
- The data collected needs to be exported so it can be integrated into the ERP of the company .

Industry 4.0: Machine resource usage

The dashboard displays the following components:

- Summary:** A large display showing **90.39 M3**.
- Table 1 (Type vs Consum):**

Type	Consum
Electric	305.86
Nitrogen	49.52
Vapor	171.19
- Table 2 (Section vs Consum):**

Section	Consum
Electric 01	56.49
Electric 02	32.18
Electric 03	99.98
Electric 04	117.25
Nitrogen	49.52
Vapor	171.19
- Table 3 (Sensor vs Timestamp vs Value):**

Sensor	Timestamp	Value
Gas	09.04.2015 12:31:16	5,59
Gas	09.04.2015 12:31:06	8,75
Gas	09.04.2015 12:30:56	32,65
Gas	09.04.2015 12:30:46	27,00
Gas	09.04.2015 10:30:36	3,23
Gas	09.04.2015 10:30:26	43,10
Gas	09.04.2015 10:30:16	40,96
Gas	09.04.2015 10:30:06	32,53
Gas	09.04.2015 10:29:56	29,55
Gas		26,13
- Summary Cards:** Four gauge charts showing values for Today (10), Month (17), Yesterday (10), and Year (496).
- Table 4 (DeviceName vs Gas vs Connected):**

DeviceName	Gas	Connected
Electric 01	46,79	●
Electric 02	43,50	●
Electric 03	13,13	●
Electric 04	13,13	●
- Summary Cards (Bottom):** Four gauge charts showing values for Today (9.187), Yesterday (9.187), Month (258.70), and Year (623.39).
- Table 5 (Zoomed-in Gas Data):**

Time	Gas
Thursday, Apr 9, 12:25:25	3,97

**effort
1
day**

About the Devices:

- YAWiD is wireless gateway manufacturer with a integrated Java VM and different GPIO and GPS configurations
- With P.U.R.E and M.A.J.A can be used to leverage brown field assets (devices currently not connected to the internet) with value added services in the IoT realm



Application Requirements

- This application is a demonstrator board for exhibitions.
- The application displays the capabilities of the devices (Input/Outputs/Temperature/GPS).
- The application allows to set the Outputs of the device.
- The application must allow the communication between different devices.



YAWiD
Home Water System Log

P.U.R.E. 3G Highspeed M2M GPS Terminal powered by Java TM

- "P.U.R.E. EHSS-US 3G GPS Java Terminal" (PDF)
- "M.A.J.A. EHSS-E 3G GPS Java Terminal" (PDF)
- "M2M Product Portfolio" (PDF)

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YAWiD
Landing Page Bsp Kundenmanagement

Inputs

Use the 4 switches to control the Maja's 4 outputs.

The bulbs below present the state of the 8 outputs

On Off On Off On Off On Off

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YAWiD
Home Water System Log

Device Overview

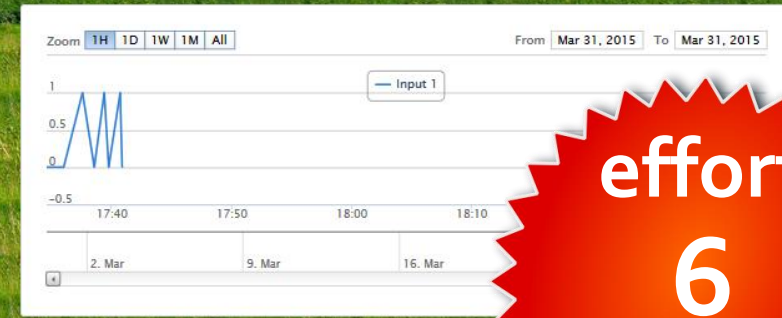
DeviceName	Input 2	Output 2	Event	Output 1	Input 1	Connected
m2mgo-pure-2i2o-358173050095143	false	true	Midlet released	true	false	
m2mgo-pure-2i2o-358173050614380	true	true	command: outlet@set-1	true	true	
m2mgo-pure-2i2o-358173050632424	true	true	command: outlet@set-1	true	true	
m2mgo-pure-2i2o-358173050632655	false	true	Midlet released	true	false	
m2mgo-pure-4i0o-358173050095143	false	false	command: midlet@reset	true	false	
maja_m2mgo	false	false	Midlet started	false	false	

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Karte Satellit Pergamon

Reichstagsgebäude
Brandenburger Tor
Eberstraße
Gendarmenmarkt

GPS auslesen



effort
6
hours

Thank you!

Feel free to get in touch with me.
It would be a pleasure to exchange thoughts!



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