

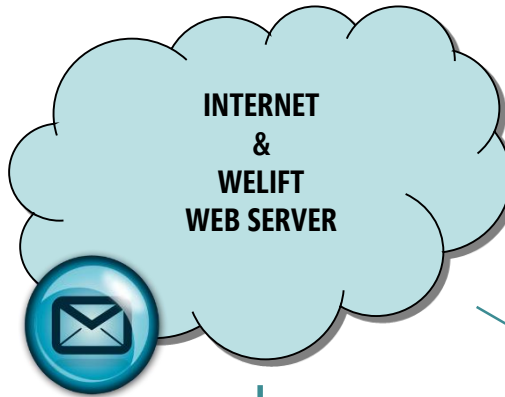
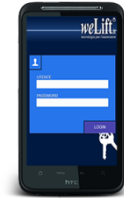
*we*Lift[Ⓜ].it

Km[Ⓜ]Ⓜ

Km[Ⓜ]Ⓜ⁺

A technician in the machine room....

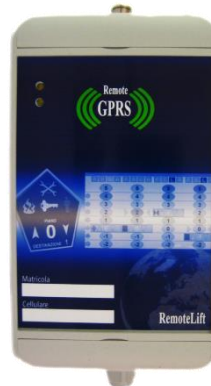
ALWAYS



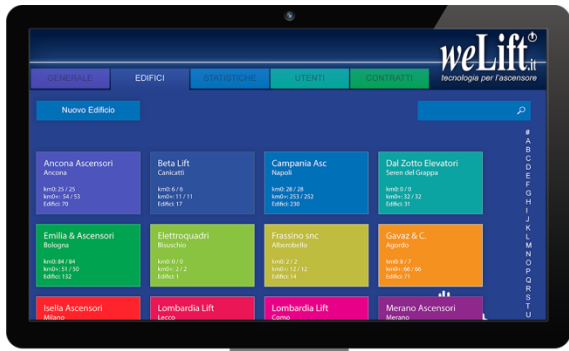
Desktop, Notebook, Tablet, Smartphone...
dotati Browser Web compatibile

REMOTE MONITORING

- 24/24 plant status access
- Remote-control execution
- Log and statistics
- Malfunction telemetry
- Configuration information



RETE INTERNET GPRS



Desktop, Notebook, Tablet, Smartphone...
Browser Web compatibile



Km0+



Cell phone



Call Center



Fixed phone



Emergency Call

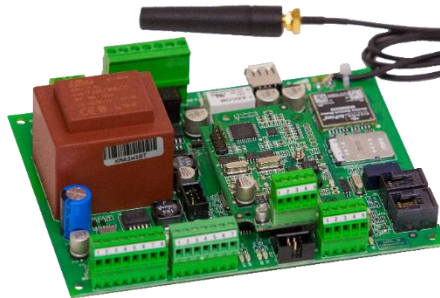


REMOTE MONITORING

- 24/24 plant status access
- Remote-control execution
- Log and statistics
- Malfunction telemetry
- Configuration information

DIALER

- 3 remotely settable numbers
- Automatic calling test
- Vocal assistant
- Digital audio
- Customized message recording



GPRS INTERNET NETWORK

GSM PHONE NETWORK

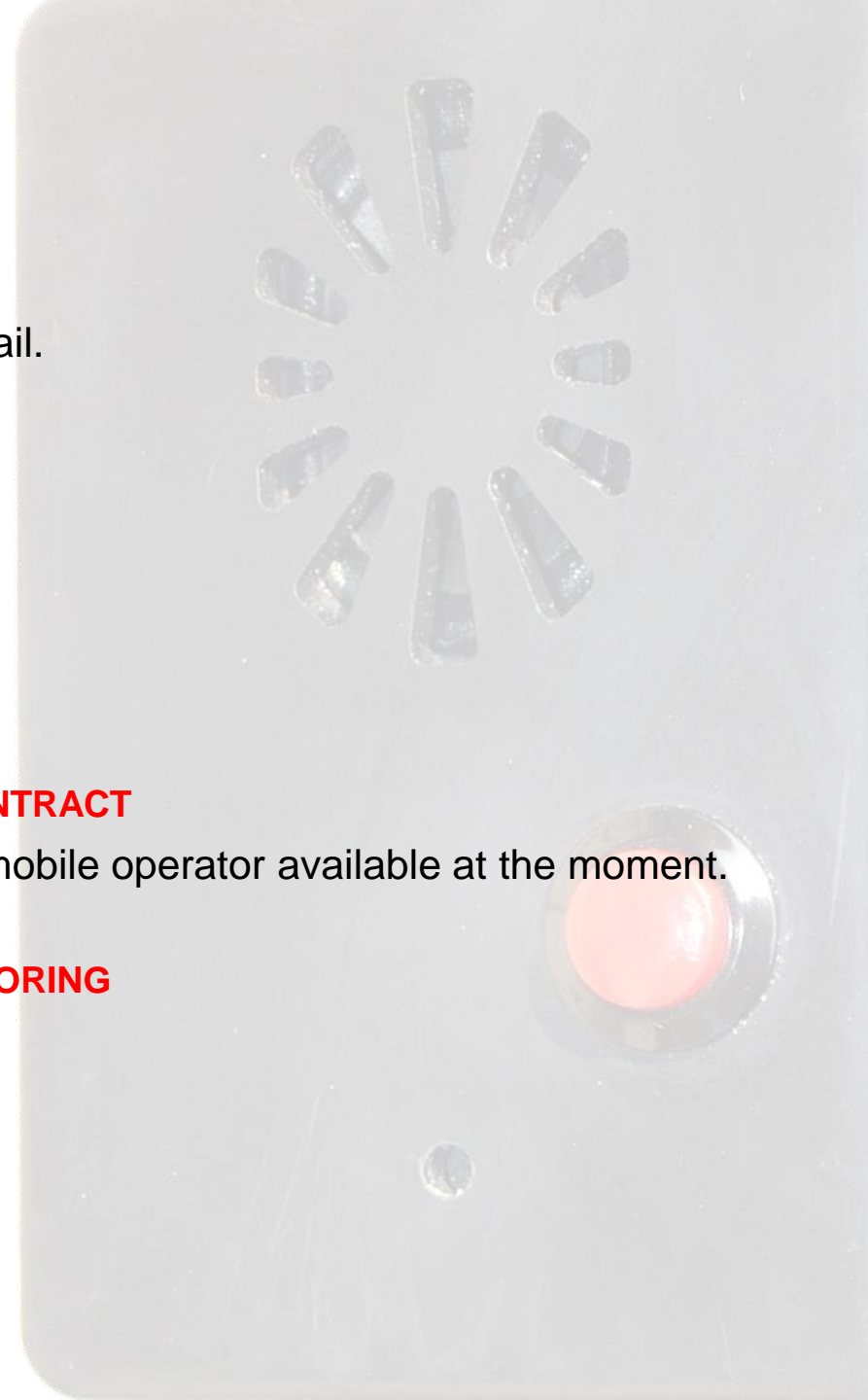
- **Monitoring and remote-control**

- Signal collection with serial connection on MPx protocol and using clean contacts.
- Permanent connection with centralized server; instant transmission of alarms, malfunctions and telemetries.
Connection lapses of some time are notified and logged.
- Configurable remote-controls from web (e.g. single-level call, remote reset).
- Circular telemetry with status domain of board main signals and local inputs. The server requests it automatically in case of faults and it can be displayed in graphic format from the web.

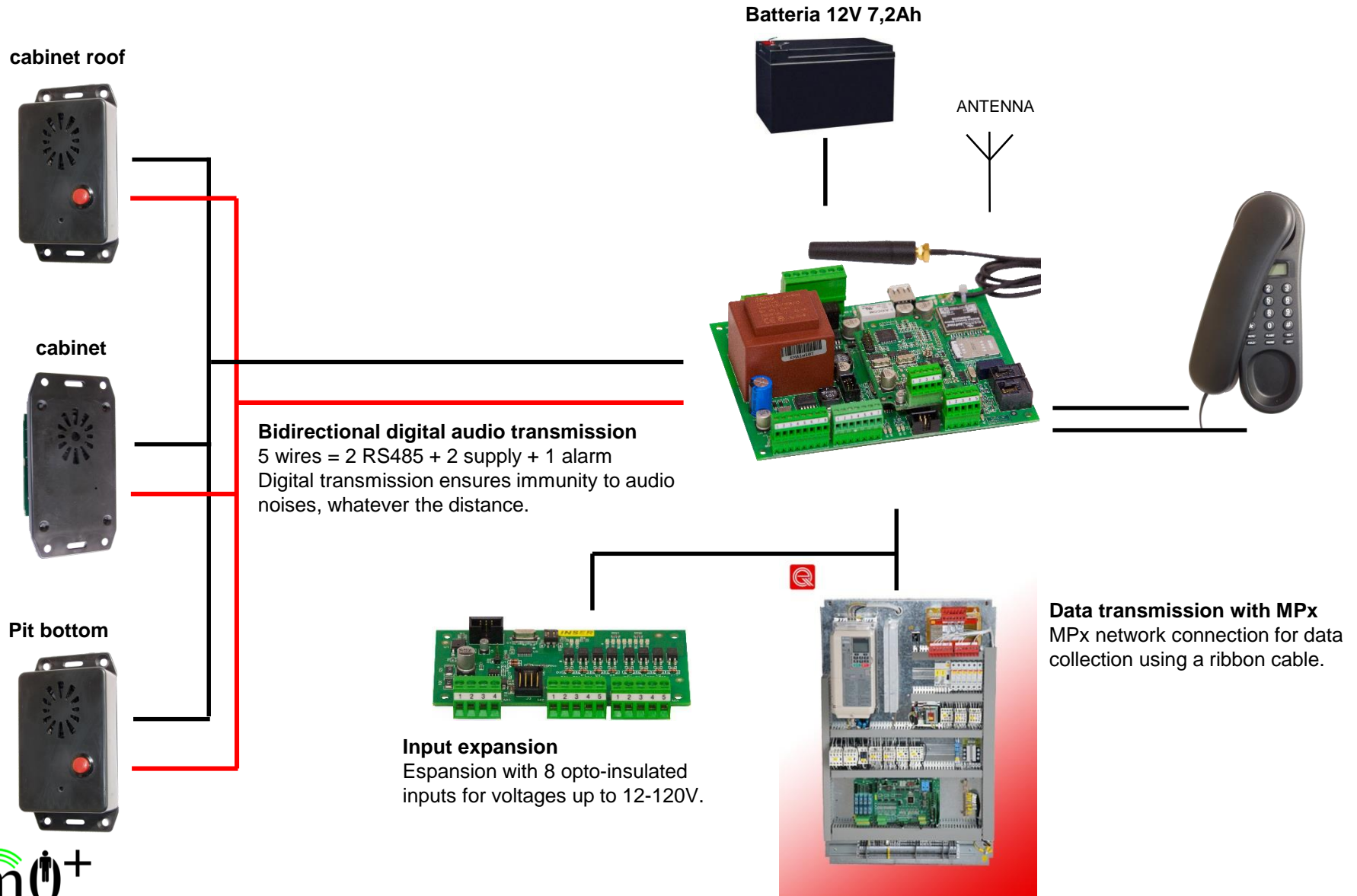
- **Telephone dialer**

- On the first connection, it receives the server configuration: emergency numbers, test number and peripheral audio volumes. The configurations can be modified from the web.
- Two consecutive calls for each number, passing to the following one until the alarm interrupt codes (DTMF) are received.
- The contact is put in communication with the peripheral which originated the alarm.
- Vocal message for customized help request.
- Periodic test call (with or without answer). The server logs the result of the call and sends an e-mail notification if needed.
- Audio peripheral connectivity supervision with notification of malfunctions.
- Gong management in cabinet

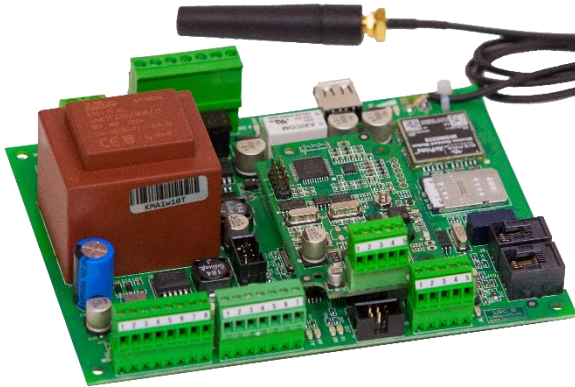
- **Battery loading and battery test**
 - Battery loading circuit.
 - Periodic tests of battery presence and integrity.
 - Faults in the tests are logged and notified by e-mail.
- **Vocal assistant – OPTIONAL**
 - Shares the loudspeaker with the dialer.
 - Memory for vocal message recording.
 - Standard pre-loaded messaging.
 - Local or remote recording.
- **Automatic mobile operator – ONLY WITH CONTRACT**
 - Automatic selection and re-selection of the best mobile operator available at the moment.
- **Remote firmware update – ONLY WITH MONITORING**



FLOW CHART

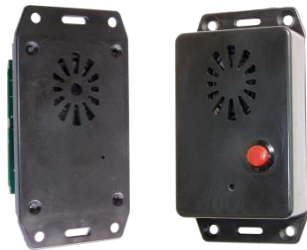


TECHNICAL ENVIRONMENTS



Km0+ dialer

- 220Vac power supply
- 1 open collector 250mA output for SENT ALARM
- 1 open collector 250mA output for RECEIVED ALARM
- 1 12V 500mA output for GONG
- 1 12V 250mA output for EMERGENCY LIGHT
- 1 12V 400mA battery loader output
- 1 EQLCD power supply cabinet
- 8 30Vdc customized inputs
- 4 open collector 30Vdc 250mA outputs for remote-controls
- MPx serial connection
- Audio peripheral serial connection
- GSM/GPRS antenna



Voice485 audio peripheral

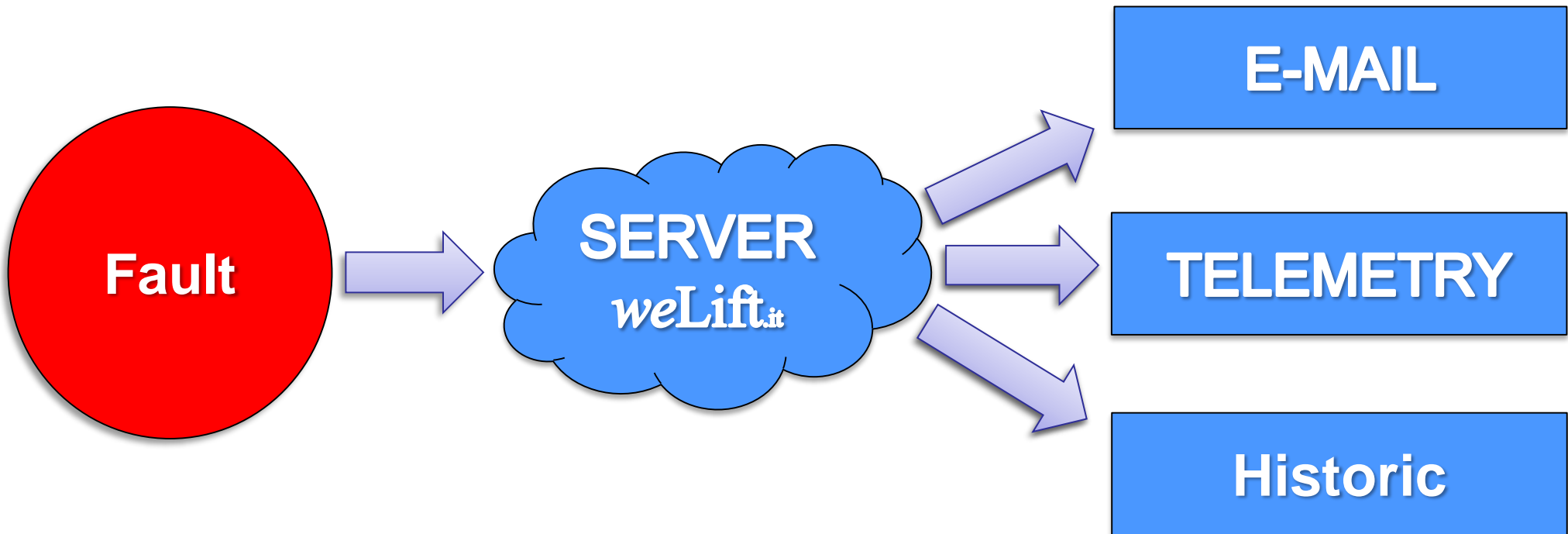
- Bidirectional digital audio
- Elliptic loudspeaker
 - 1W rated power
 - 2W peak power
 - Paper cone
- Omnidirectional microphone
- Alarm button
- Malfunction notifications



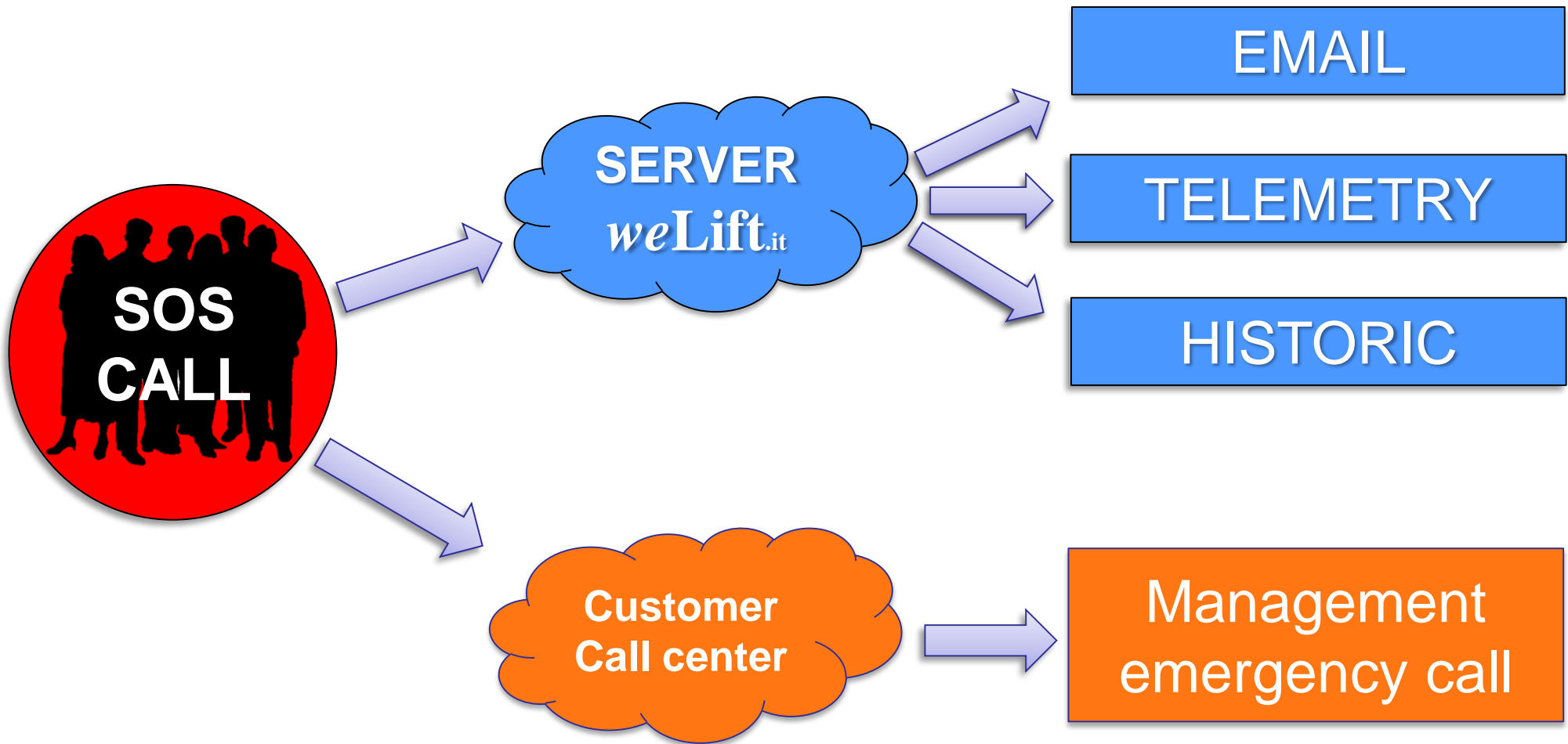
InSer expansion

- 18-30Vdc power supply
- 8 1500V, 12-120Vdc/Vac opto-insulated outputs
- Warning Leds for each input

Malfunction or alarm $Km0$ e $Km0^+$



Fault with device Km0⁺





The **welift.it** web platform is the control center for both Km0(+) devices and remote-controlled devices.

Its tree-configured access allows for an organized vision. The tree consists of buildings, each with one or more device which, in their turn, can have one or more elevators (simplex, duplex ...).

The site is designed for use from both computer, tablet and smartphone.

Through the elevator page one can control elevator status, even in real time (in a matter of seconds), operate with remote-controls, consult logs and statistics. Notes on malfunctions or alarms can be added to the log.

New Group







<p>Alessandria ✕</p> <p>1</p>	<p>Ancona ✕</p> <p>1</p>	<p>Bellagio ✕</p> <p>1</p>	<p>Bolzano Centro ✕</p> <p>1</p>	<p>Caorle Porto Santa Margherita ✕</p> <p>1</p>	<p>Carate Brianza Banco Collaudi ✕ Via Mascherpa, 14</p> <p>1</p>
<p>Como Monte Olimpino ✕</p> <p>1</p>	<p>Firenze ✕</p> <p>1</p>	<p>Foggia ✕</p> <p>1</p>	<p>Genova ✕</p> <p>1</p>	<p>Lecco Centro ✕</p> <p>1</p>	<p>Lignano Sabbiadoro Corso Centrale ✕</p> <p>1</p>
<p>Merone Banco Collaudi ✕ Via Segantini, 35/B</p> <p>2</p>	<p>Milano Quartiere Olmi ✕</p> <p>1</p>	<p>Napoli Vomero ✕</p> <p>1</p>	<p>Olbia ✕</p> <p>1</p>	<p>Padova Centro ✕</p> <p>1</p>	<p>Palermo Politeama ✕</p> <p>1</p>
<p>Pescara ✕</p> <p>1</p>	<p>Roma Zona EUR ✕</p> <p>1</p>	<p>Salerno ✕</p> <p>1</p>	<p>Sesto San Giovanni ✕</p> <p>1</p>	<p>Singapore ✕</p> <p>1</p>	<p>Siracusa ✕</p> <p>1</p>
<p>Torino Quartiere Aurora ✕</p> <p>1</p>	<p>Trieste ✕</p> <p>1</p>	<p>Venezia Lido ✕</p> <p>1</p>	<p>Vercelli ✕</p> <p>1</p>		

Scala BSX -



Real

Scala BDX -



Real



Reservations ①

Reservations ①

Remote Controls

Remote Controls

Reset Mpx Reset Km0(+) Reset Audio

Load Synthesis Get Log Call Emergency 1

Call Emergency 2 Call Emergency 3 Battery Test

Call 72h Test Attiva AI Attiva AR

Inputs and Outputs

Mpx inputs

FSC	UD	DRA	DRB	FRM	CCA	MF	ISP
DOB	DM	UM	FTA	FTB	DCB	SRV	FRMC
GCS/PW	CF1	CF2	CF3	CF4	CF5	DMD	DMS
D1	D2	D3	D4	ISU	ISD		

Mpx outputs

LC	APB	PAT	AUX	CP	APA	GNG	PV
PR3	WD	FS	PR1	PR2	S	D	GV

Km0 inputs

0	1	2	3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23

Km0 outputs

0	1	2	3	AI	AR
---	---	---	---	----	----

Allarme Ricevuto

Inputs and Outputs

Configurazione

Documents



Configurazione

Documents

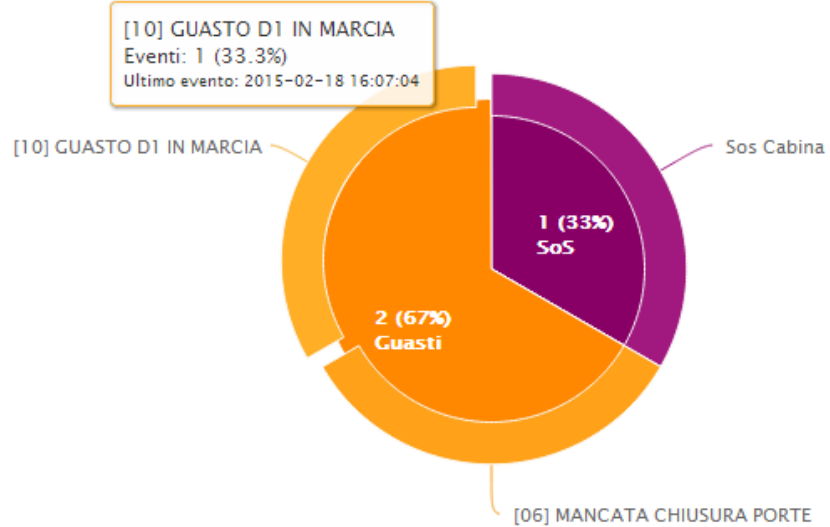
History

Last 2 days

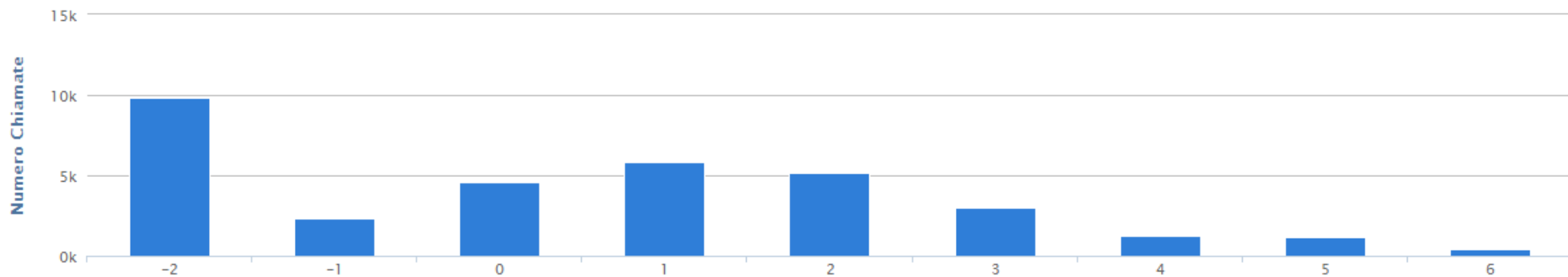
Show all

Impianto Tecnico

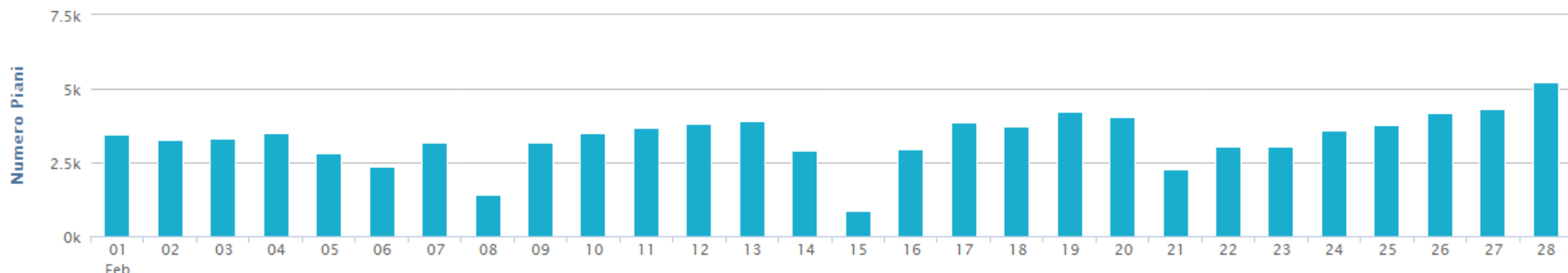
DATA	EVENT	NOTE
2015-10-09 15:36:24	- RESTORATION [10] SAFETY CHAIN CONTROL DURING RUN (D1	
2015-10-09 15:36:06	- Telemetry Received	show telemetry
2015-10-09 15:36:00	- Telemetry request on event	
2015-10-09 15:36:00	[10] SAFETY CHAIN CONTROL DURING RUN (D1 MISSED)	



CHIAMATE PER PIANO



PIANI PERCORSI



E-MAIL NOTIFICATIONS

The server constantly checks elevator status and sends alarm or information e-mails for various conditions, such as:

- **Device connection**

When the Km0(+) device connects to the server.

- **Device disconnection**

When connection with the server drops out for some time.

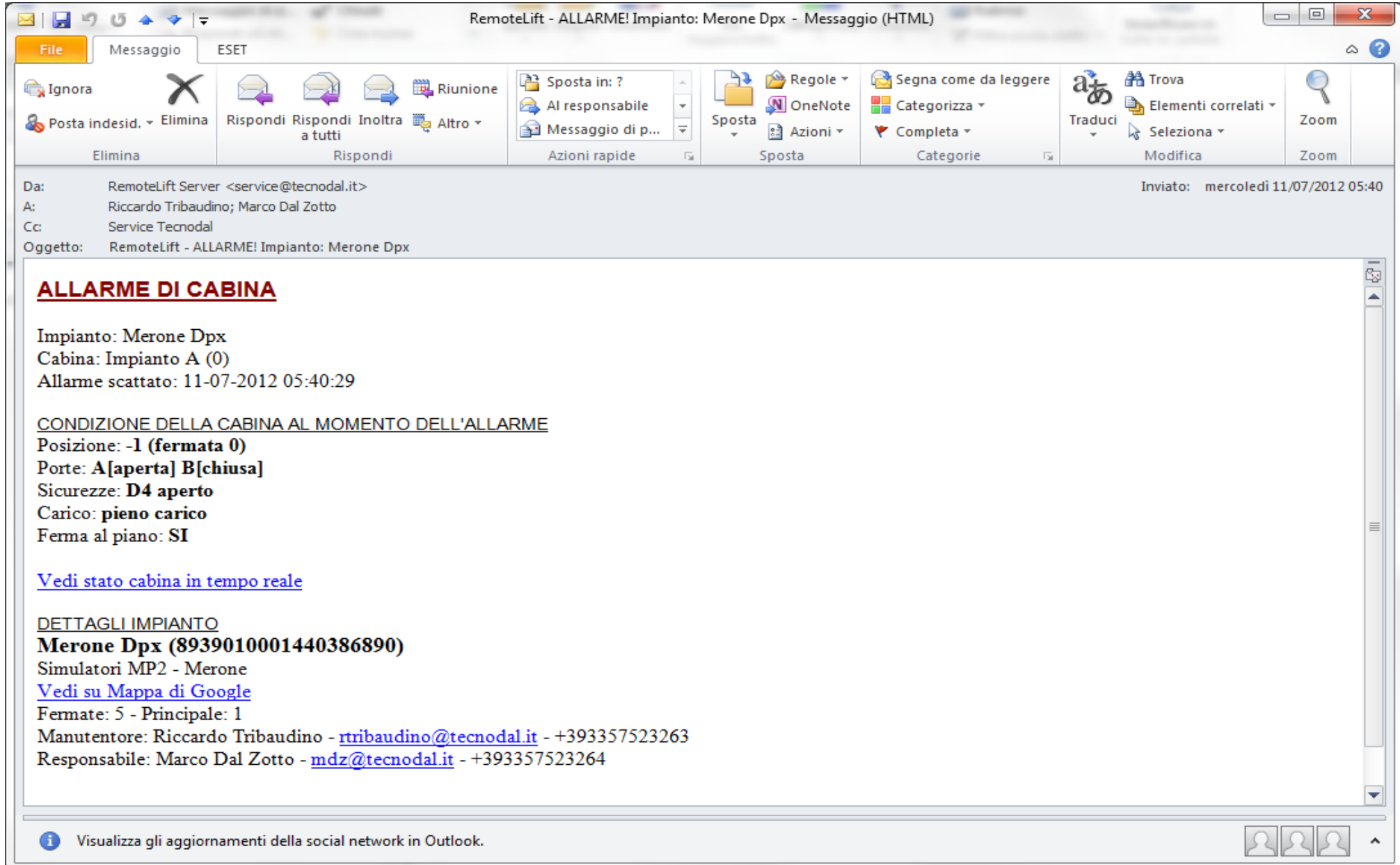
- **Car alarm**

cabinet button pressed (with filter).

- **Alarms or elevator malfunctions**

In case of an alarm or malfunction, a telemetry containing the last electric controller transitions is made available to help identify the malfunction causes; accessible from the log and searchable using web browsing.

EXAMPLE OF E-MAIL NOTIFICATION



The image shows a screenshot of an Outlook email client window. The title bar reads "Remotelift - ALLARME! Impianto: Merone Dpx - Messaggio (HTML)". The ribbon is set to "Messaggio" with the "ESET" tab selected. The ribbon contains various action buttons such as "Ignora", "Posta indesid.", "Elimina", "Rispondi", "Inoltra", "Altri", "Sposta", "Regole", "Segna come da leggere", "Categorizza", "Completa", "Traduci", "Trova", "Elementi correlati", "Seleziona", "Modifica", "Zoom", and "Azioni rapide".

The email header information is as follows:

- Da:** Remotelift Server <service@tecnodal.it>
- A:** Riccardo Tribaudino; Marco Dal Zotto
- Cc:** Service Tecnodal
- Oggetto:** Remotelift - ALLARME! Impianto: Merone Dpx

The email body contains the following text:

ALLARME DI CABINA

Impianto: Merone Dpx
Cabina: Impianto A (0)
Allarme scattato: 11-07-2012 05:40:29

CONDIZIONE DELLA CABINA AL MOMENTO DELL'ALLARME

Posizione: **-1 (fermata 0)**
Porte: **A[aperta] B[chiusa]**
Sicurezza: **D4 aperto**
Carico: **pieno carico**
Ferma al piano: **SI**

[Vedi stato cabina in tempo reale](#)

DETTAGLI IMPIANTO

Merone Dpx (8939010001440386890)
Simulatori MP2 - Merone
[Vedi su Mappa di Google](#)
Fermate: 5 - Principale: 1
Manutentore: Riccardo Tribaudino - rtribaudino@tecnodal.it - +393357523263
Responsabile: Marco Dal Zotto - mdz@tecnodal.it - +393357523264

At the bottom of the window, there is a status bar with an information icon and the text "Visualizza gli aggiornamenti della social network in Outlook." and three profile icons.

EXAMPLE OF TELEMETRY

Autosilo Val - IMPIANTO A
2012-06-25 11:42:37

00m 00s .000	00m 00s .170	00m 00s .830	00m 00s .050	00m 00s .730	00m 00s .990	00m 00s .160	00m 02s .640	00m 00s .060	00m 00s .070	00m 00s .110	00m 00s .220	00m 00s .050	00m 00s .430	00m 00s .460	00m 00s .050	00m 05s .150	00m 00s .05
--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	-------------------

campione

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

posizione->destinazione

1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2	1->-2
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ALLARME DI CABINA

Salita - S

Discesa - D

UD

Veloce - GV

Lenta - PV

FSC

CCS/PW

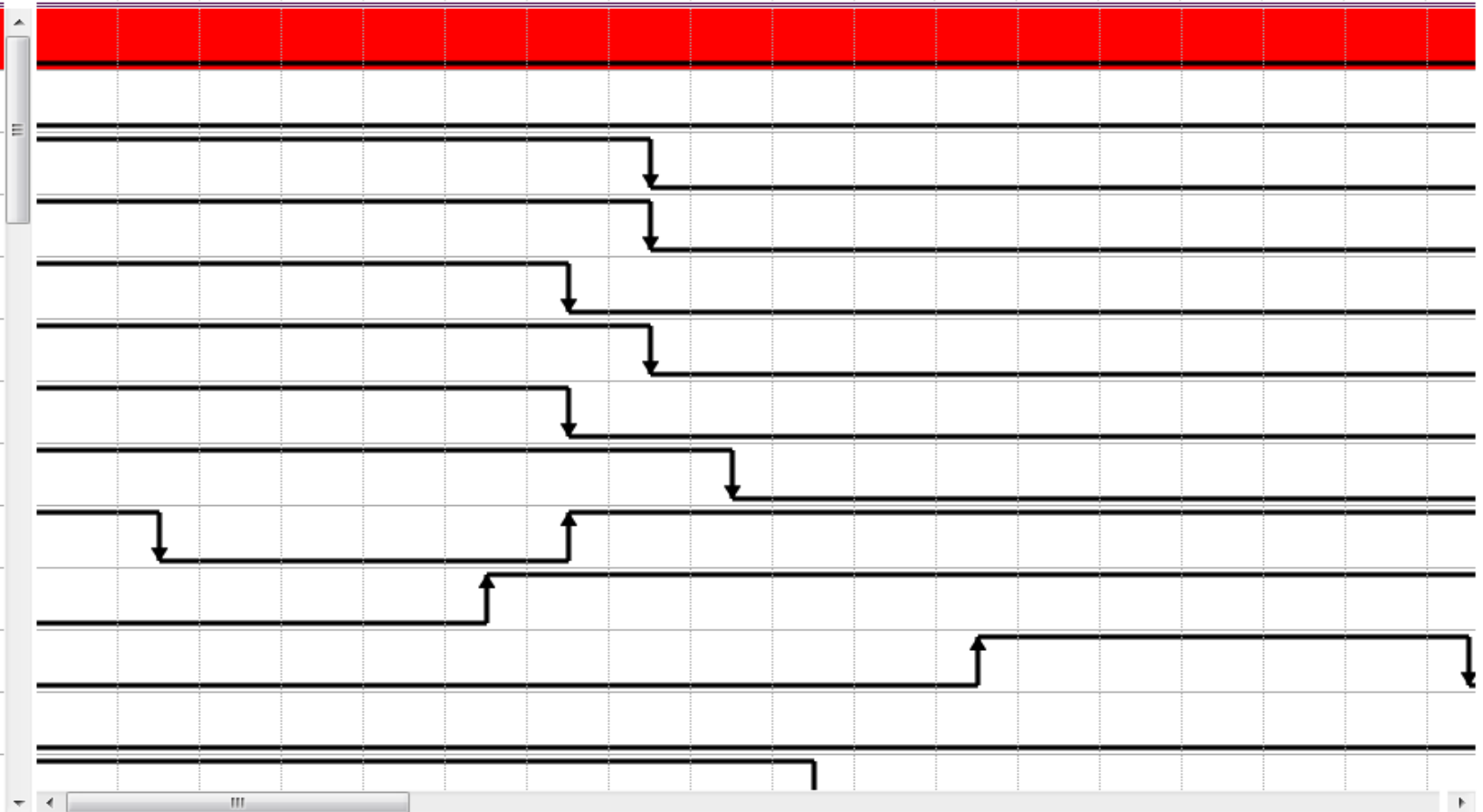
Impulsore salita - UM

Impulsore discesa - DM

Apertura porta A - APA

Apertura porta B - APB

Chiusura porte - CP



THE SUBSCRIBER SERVICE

“Turnkey” service, with subscriber fee, per board.

- Device configuration with one-off cost or possibility to have the plant autonomously configured from the web.
- Device centralized management.
- Web platform for access in real time to the plant and log.
- Notifications sent by e-mail.
- SIM supplied complete with: data traffic and 12 minutes per year of incoming and outgoing phone calls.
- Assistance on device connection problems.

1988

1990

1995

2000

2005

oggi



MP1

7.500 installation

REPLACEMENT



MPS-EQMPS

68.000 installation

REPLACEMENT



MP2-MP3-EQMPP

37.400 installation

The begin...

www.welift.it

- User: demo
- Password: demo



*we*Lift[Ⓘ].it

Km[Ⓜ]Ⓘ

Km[Ⓜ]Ⓘ⁺

A technician in the machine room....

ALWAYS