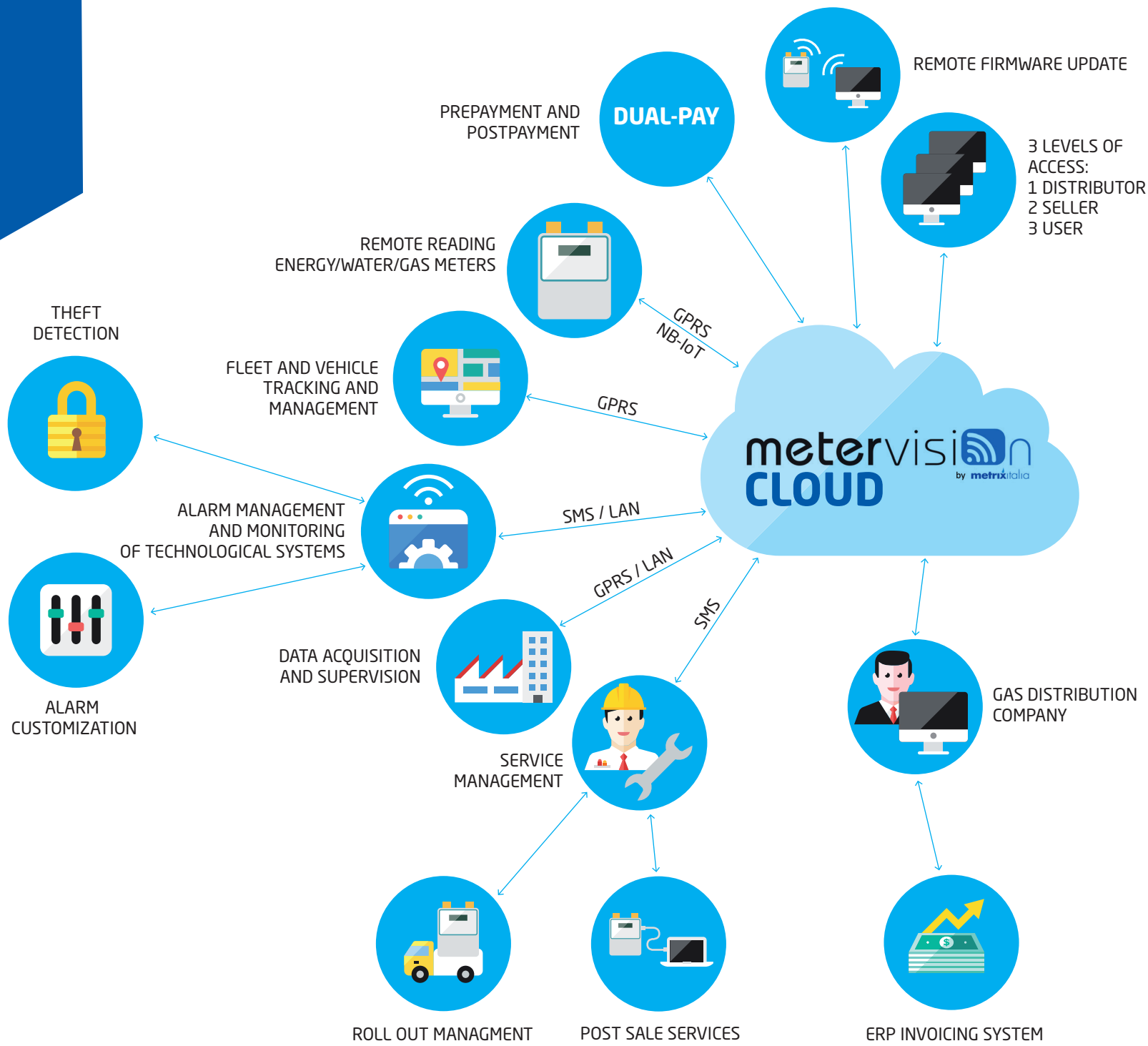




REMOTE MANAGEMENT AND REMOTE READING SOFTWARE OF METERS AND VOLUME CONVERTERS

General features

- AMI
Advanced Metering Infrastructure
- AMR
Automated Meter Reading
- MDM
Meter Data Management



General features

Metervision is a software for remote management and remote reading of meters and volume converters (PTZ), designed to support modern and future smart metering infrastructures, compliant with italian regulation

- Being a cloud-based software, there will never be the need to install specific software or for maintenance and upgrades.
- It is made up of various service modules that allows the user to switch from the basic service to an advanced service platform for the complete management of the measurement points of the distribution network.
- It is a modern management system designed for the future development of Smart Grids capable of integrate the devices in the field with different protocols, in accordance with ITALIAN STANDARD FOR SMART METERING STANDARD, using the various wireless communication methods.
- It is designed as an extremely flexible tool, adaptable to the needs of each company, from the distributor to the seller to the end user and designed for the future massive development of smart meters in worldwide.
- It can be easily interfaced with the customer's SW/ ERP systems allowing the export of data in various ways.

Cloud Computing, the strength and security of Metervision

Thanks to the project based and supported by modern Cloud Computing technology, it has multiple server farms installed in different geographical areas ensuring:



A redundant IT 100% protected infrastructure



High performance in terms of availability, scalability and computing power of the platform



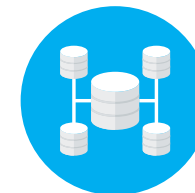
Availability 24 hours a day, 365 days a year



Redundant back-up and disaster recovery procedures



Great speed of connection and interfacing with field devices = great saving of battery life

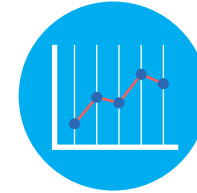


It can run simultaneously on multiple web servers (load-balancing) and on multiple data-base servers (data-base sharding), making the number of remote connectable devices virtually unlimited.

Main features



Remote reading of consumption of domestic meters, volume converters and industrial meters



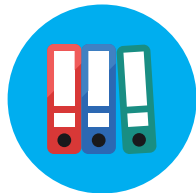
Statistical data of consumptions



Warnings, alarms, deadlines, job scheduling



Real-time data acquisition with very high speed connection



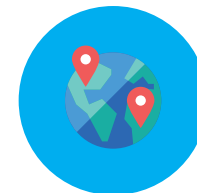
Plenty of space for document management (manuals, technical documents, catalog, data backup, etc.)



Georeferential location of the gas meter



Mobile workforce management, roll-out and post sale services



Fleet management via satellite tracking

Customer Data

metervisiⁿ by metrixitalia

Devices | Users | Communications | Data | Account | Configuration | Exit | Welcome Stefano Raimondi (stefano_raimondi@metrixitalia) Metrix Italia

Back | General | Data | Graphics | Photos | Advanced

General information

Identifier: P followed by PoR digits
Name:
Group:
Company:
Accessibility:

Installation place

Customer:
Address:
P.C.:
Locality:
Province:
Customer code:
Contact:
Telephone:

Communication parameters

SIM number:
Operator:
SIM supplier:

Meter Data

Meter serial No:
Meter brand:
Meter model:
Manufacturer:
Max meter flow rate:
Min meter flow rate:
Meter class:
Activation date:
Closing date:

Corrector data

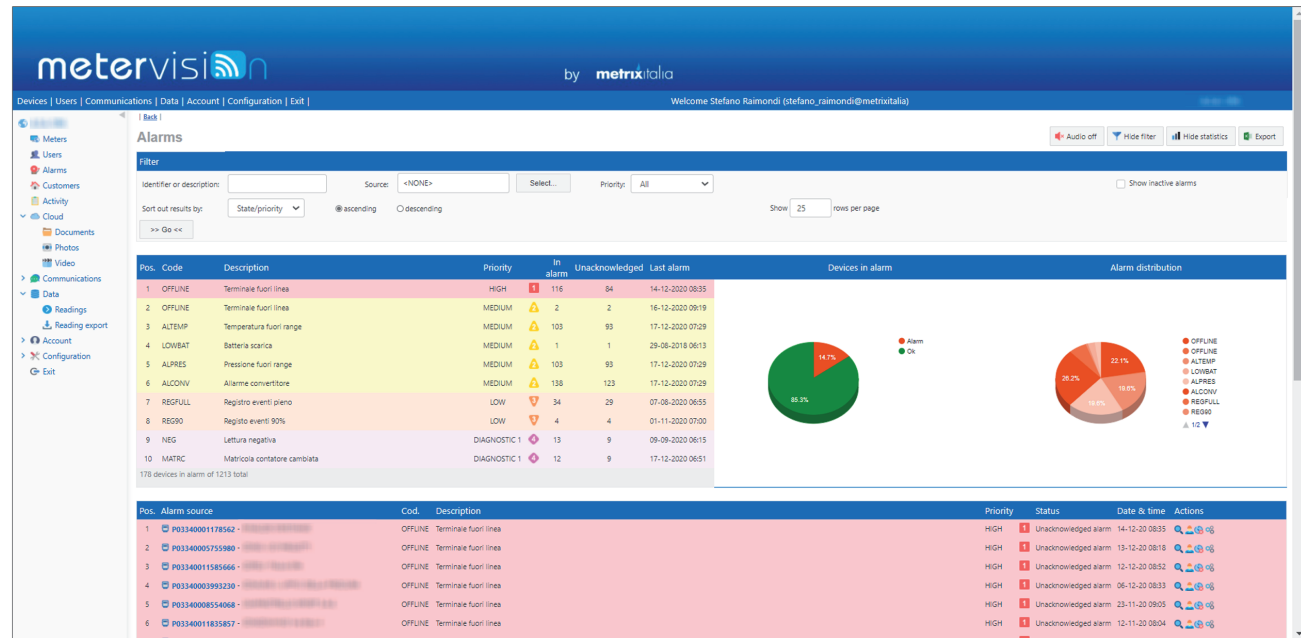
Corrector serial No:
Corrector brand:
Corrector model:
Max pressure corrector:
Min pressure corrector:

Prepaid

Enabled:
Threshold: Volume mc

Alerts, alarms

Intuitive view of the status of alarms, percentage of devices out of service, acquisition and suggestions on possible causes.



Workforce management

Creation and management of work activities linked to the POM, assignment via mobile Web service to operators in field, it assures an effective and faster way of working, with lower management costs.

The screenshot displays the Metervision web application interface. The main content area is divided into several sections:

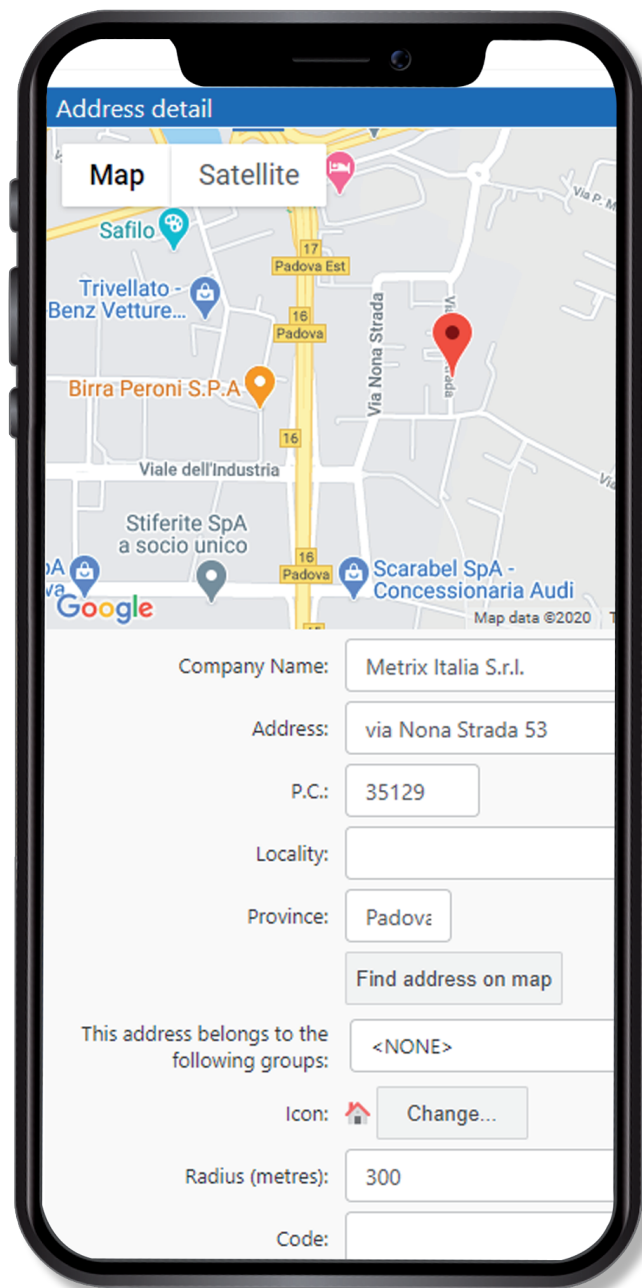
- Installation info:** Fields for PDR, Name, Group (MX-3000-NP), Last contact (17-12-2020 06:10:26), Address (strada satagatto 17 - 27058 Voghera PV), Services, Notes, and Selected.
- Counters:** Tot. measured volume: 00054705.000 m³, Tot. corrected volume: 00055412.430 m³, Reading date & time: 17-12-2020 06:05.
- Volume converter:** C Coefficient: 1.0492, Z Coefficient: 1.0003, Temperature: 6.33 °C, Pressure: 1.0308 bar.
- Device status:** Status: ACTIVE, Battery voltage: 3.64 V, Battery life: 1761 days, GSM signal: -67 dbm.
- Alarms:** Table with columns: Pos., Cod., Description, Priority, Status, Date & time, Actions. Note: "There are no active alarms".
- Activity:** Table with columns: Ticket, Status, Description, User, Date & time, Actions. Data rows:

Ticket	Status	Description	User	Date & time	Actions
65692	Yellow	MX-3000 installation	Stefano Raimondi	18-12-20 12:00	Search, Delete
65691	Green	Scheduled maintenance	Stefano Raimondi	18-12-20 12:00	Search, Delete
65690	Red	Check	Stefano Raimondi	18-12-20 12:00	Search, Delete
- Documents:** Table with columns: Pos., File. Note: "No documents to show".

A secondary window titled "Metervision - Personale - Microsoft Edge" is overlaid on the main interface, showing the same Activity table data.

Mobile services

ACCESS WITH:
-Mobile phone
-Tablet
-Laptop



Georeferential location of the gas meter

Georeferencing of POMs for easy management of interventions in the field. Satellite tracking service and fleet management that allows you to manage vehicles and personnel in the area.

The screenshot displays the Metervision web application interface. At the top, the logo 'metervision' is visible, along with the text 'by metrixitalia'. The navigation menu includes 'Devices', 'Users', 'Communications', 'Data', 'Account', 'Configuration', and 'Exit'. The main content area is divided into several sections:

- Installation info:** Includes a 'PDR:' field.
- Counters:** Displays 'Tot. measured volume: 00054705.000 m³' and 'Tot. corrected volume: 00055412.430 m³'.
- Address detail:** A central window showing a Google Map of Padua, Italy, with a red pin marking the location. Below the map, the following information is displayed:
 - Company Name: Metrix Italia S.r.l.
 - Address: via Nona Strada 53
 - P.C.: 35129
 - Locality: [empty field]
 - Province: Padova
 - Buttons: 'Find address on map', 'Add...', 'Change...'
 - This address belongs to the following groups: <NONE> Add...
 - Icon: Change...
 - Radius (metres): 300
 - Code: [empty field]
 - Contact: [empty field]
- Right sidebar:** Displays various status and sensor data:
 - 0492
 - 0.003
 - 6.33 °C
 - 0.308 bar
 - ACTIVE
 - 3.64 V
 - 1761 days
 - 67 dBm

Fleet management: Route planning

metervision by metrixitalia

Terminali | Utenti | Comunicazioni | Dati | Account | Configurazione | Esci | Benvenuto Stefano Raimondi (stefano_raimondi@metrixitalia)

Generale Anagrafica Grafici Fotografie Avanzate

Informazioni impianto Totalizzatori

Tot. volume misurato: 00054705.000 m³
Tot. volume corretto: 00055412.430 m³

Terminale - jumpy citroen 266

Eventi

Data	Ora	Evento	Durata Viaggio	Durata Sosta	Km	Cliente
14/10	11:03	Viaggio	0h 5'		1,7	
14/10	11:06	Cliente		0h 7'		
14/10	11:16	Viaggio	0h 1'		0,3	
14/10	11:17	Cliente		0h 30'		
14/10	11:48	Viaggio	0h 7'		2,2	
14/10	11:55	Deposito				
14/10	12:04	Viaggio	0h 0'		0,1	
14/10	12:20	Viaggio	0h 7'		2,5	
14/10	12:27	Cliente		0h 14'		
14/10	12:42	Viaggio	0h 12'		4,6	
14/10	12:54	Deposito				
14/10	16:09	Viaggio	0h 7'		2,4	
14/10	16:16	Cliente		0h 20'		
14/10	16:37	Viaggio	0h 4'		1,2	
14/10	16:41	Cliente		0h 23'		
14/10	17:04	Viaggio	0h 5'		1,0	
14/10	17:14	Viaggio	0h 4'		1,7	
Totali:			0h 59'	1h 36'	17,6	

Riepilogo

Tempo totale:	2h 35'
Costo totale:	58,16
Numero clienti visitati:	5
Costo medio per cliente:	11,63
Tempo medio per cliente:	0h 31'
Km medi per cliente:	3,5

Mappa

Map data ©2013 Google - Termini e condizioni d'uso. Segnala un errore nella mappa

Lingua Italiano

DMS Module (Document Management System)

This module allows you to simplify document management by acquiring, managing and storing documents of any type and format.

The screenshot displays the metervision software interface. The top navigation bar includes the logo 'metervision by metrixitalia' and a user welcome message: 'Welcome Stefano Raimondi (stefano_raimondi@metrixitalia)'. A left-hand navigation menu lists various system components such as Meters, Users, Alarms, Customers, Activity, Cloud, Communications, Data, Account, and Configuration. The main content area is divided into two document thumbnails, each featuring the metrixitalia logo and a product image:

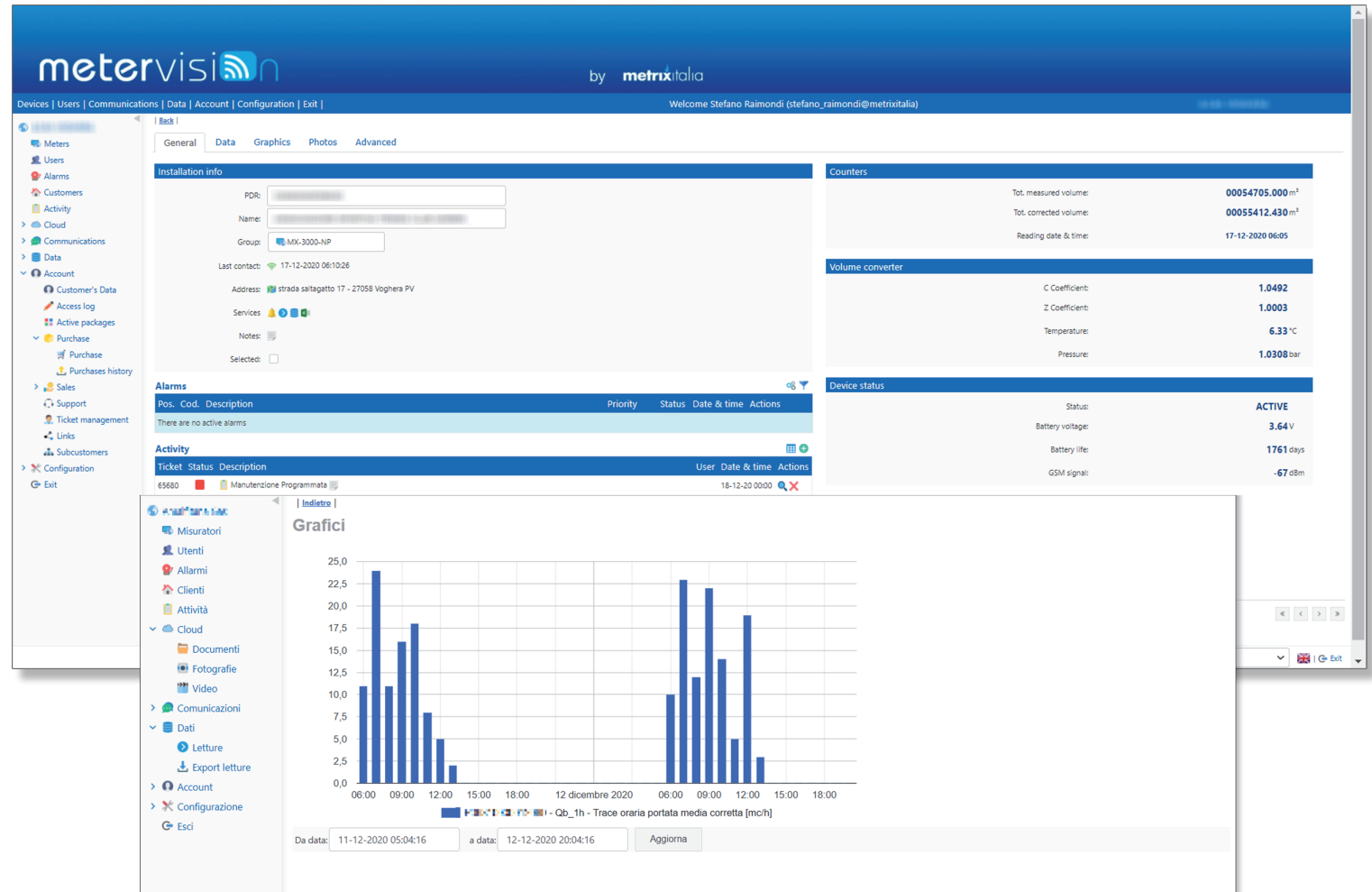
- CGT-02**: TURBINE GAS METER FOR FISCAL USE
- ELCOR**: ELECTRONIC VOLUME CONVERTER

On the right side of the interface, a 'Counters' table displays the following data:

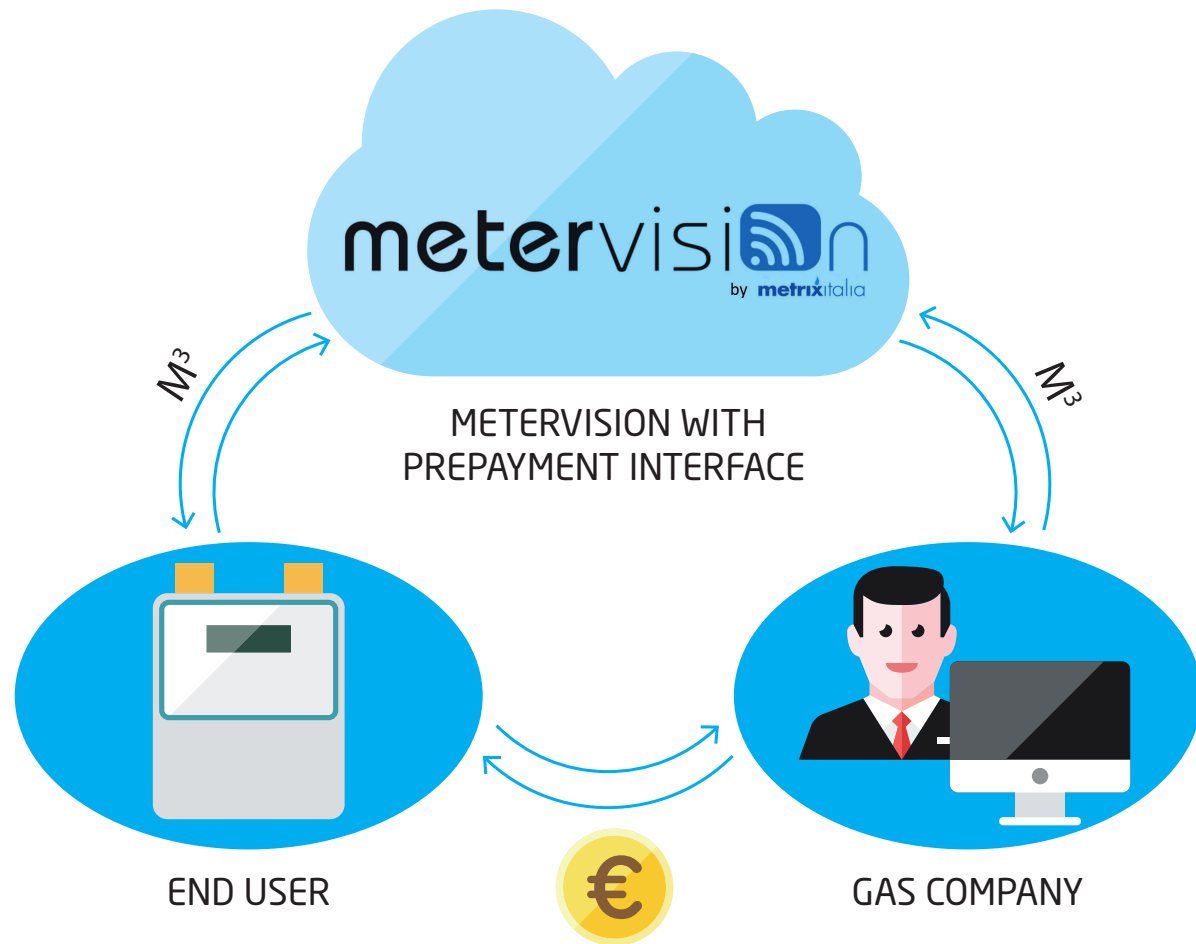
Counter	Value
Tot. measured volume:	00054705.000 m ³
Tot. corrected volume:	00055412.430 m ³
17-12-2020 06:05	
1.0492	
1.0003	
6.33 °C	
1.0308 bar	
ACTIVE	
3.64 V	
1761 days	
-67 dBm	

Hourly, daily and monthly statistics

Graphs and statistical reports on hourly flow rates, daily consumption, pressures etc. can be viewed on Metervision



Prepayment System



The end user:

The payment of a desired amount in local currency to the gas supplier will allow this latter to charge (first time) or top-up (following times) a correspondent amount of gas in m³ according to the price applied per cubic meter.

The Gas Supplier:

- fixes the gas price per m³
- set the gas m³ sales and marketing policy, (for example "Packages" of m³)
- will set the desired method of payments; (not managed by MeterVision)
- makes the contractual agreement with the end customer

Prepayment System

Once the payment has been received the gas company:

- Will first enter the customer data into the Metervision system, in case of a new user
- Will charge the credit that will turn into end user available m3, on the specific Metervision page (credit that can be constantly consulted by the gas company)
- Will agree with customer the alarm threshold with to send an alert to email address of end user

Once the credit in m3 has been loaded:

- Metervision will notify the user via email that the meter has been enabled to supply gas (safety function) and the user must confirm receipt of the message to the system (Metervision). The system will remotely allow the meter incorporated valve opening for the gas passage and usage

When the credit drops below the preset threshold, an e-mail alert

- will be sent to the end customer who will decide whether to top up before it runs out (gas stops) or wait for it to run out completely

If the credit is used up, Metervision will automatically close the

- gas flow valve until the next recharge

metrixitalia

**Thanks for
your attention**

Metrix Italia s.r.l.

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