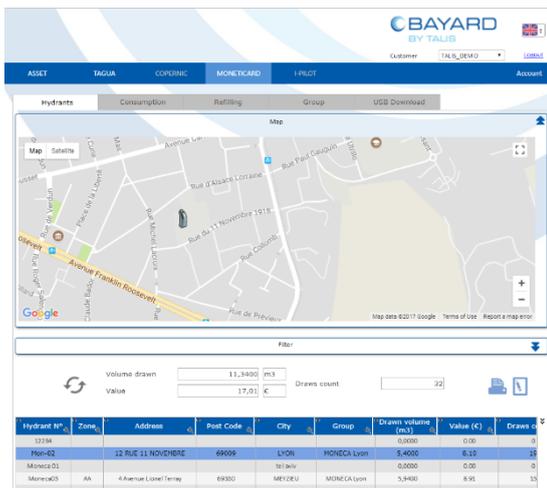




## WEB Software, App and card reader for management of the Asset MONECA™ SMART



## Applications

MONETICARD WEB is designed for owners of MONECA™ SMART. Moneticard WEB must be used with MONECA SMART equipped with communication Modems.

It is however compatible with the CLEO, MONECA 3, MONECA 4 with additional notices (read Installation paragraph)

## Description

MONETICARD WEB includes:

- Full web software MONETICARD running on the website [www.smart-inside.com](http://www.smart-inside.com), with a unique owner database.
- MONECA™ App, an application on Android Smartphone for asset configuration & data retrieval.
- A card reader for reading/writing user cards.
- 2 maintenance cards
- 10 user cards
- 2 security keys

MONETICARD WEB software features:

- monitoring of water delivered by assets
- monitoring of water consumptions by subscribers
- management of subscribers with associated user cards,
- Monitoring of assets maintenance
- Automatic alerts & reports by emails
- customs access right for owner staff

## Technical Data

- MONETICARD WEB software
  - Access on <https://www.smart-inside.com>
  - SSL authentication with login/password
  - Google Chrome web browser preferred
  - Database export formats: xls, xml, csv,
  - Available in French, English, German, Hebrew and Arab.
  - Continuous new functionalities
  - Remote support available
- MONECA™ App
  - required a Smartphone with Android 4.4 or more
  - Edge/3G/4G communication
  - Available on Google Play Store
  - Access by login/password
- Card Reader
  - MIFARE® contactless communication technology (ISO 14443A),
  - Frequency: 13.56 MHz,
  - USB Powered, cable length 1,8m
  - Consumption: 200 mA typical (< 1 mA in standby),
  - Dimensions: 59 x 59 x 11,4 mm,
  - Weight: 100 g,
  - Operating temperature: 0 to 70°C,
  - Storage temperature: -40 to 80°C,
  - RoHS-compliant



## MONETICARD WEB software

### Presentation of the WEB software

Moneticard WEB is a software for owner of MONECA, running on the website [www.smart-inside.com](http://www.smart-inside.com) to manage both the user cards and the asset network. The owner manages a subscriber list with associated user cards. User Cards are refilled and each refill gets its receipt. The software features the monitoring of all water consumptions by user cards as well as by assets in a global database. It provides tools for export, maintenance following up and different access rights depending of owner operators.

Using modem capability of MONECA™ SMART, the database is updated automatically from the assets data retrieval. It allows to retrieve the water consumptions by user cards or by assets, to receive an email in case of alarms on a asset and to receive automatic reports with customized information. If no modem is deployed, the database of the asset can be retrieved on a smartphone using MONECA™ App by a walk-by team and transferred automatically to MONETICARD WEB.

### Assets monitoring

A map provides the localization of all installed assets,

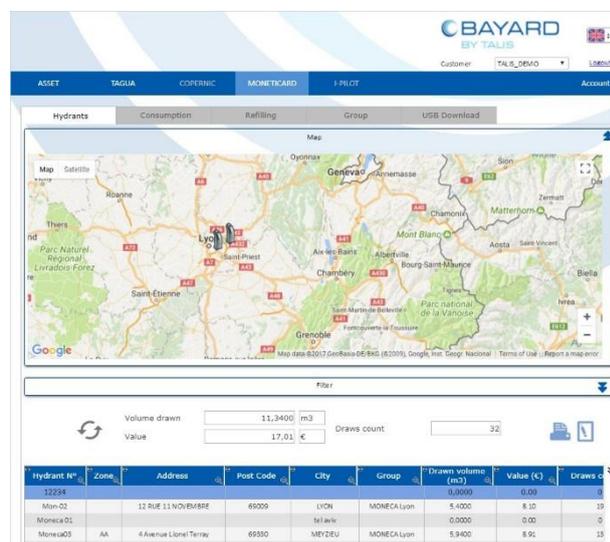
From the asset data, MONETICARD WEB provides:

- The total count, volume, value drawn for all assets
- The total count, volume, value drawn for each asset,
- Last date of data retrieval of the asset (history of water consumptions, alarms and maintenance)
- Battery level

Each asset is referenced by a unique electronic identification number. A history of water drawn is stored in the asset's memory. Data retrieval from this memory is done by :

- USB stick (Walk-by): After saving the asset memory on the USB, the USB is plugged on the computer and the data is upload to MONETICARD WEB (USB Download tab)
- MONECA™ App (Walk-by): The asset memory is upload on the MONECA™ App and the MONECA™ App sends the content to MONETICARD WEB
- GSM or SigFox modems (Remote): the asset memory is upload on MONETICARD WEB.

Data can be filtered or exported for further analysis.



### Water consumption monitoring

MONETICARD WEB enables the tracking of the subscribers' consumption for commercial purposes. Each drawing transaction is recorded, with the date, location, user card number and volume delivered.

A global vision of consumption is provided, when and where. For easy viewing, filters can be applied in order to:

- distinguish pre-payment and post-payment user cards,
- determine the volume of water drawn by all subscribers or individually,
- filter by date.

Data can be exported for further analysis.



## User card management

All operations performed in the MONETICARD WEB software are recorded in the owner database:

- add/invalid subscribers,
- import subscriber list,
- add/invalid user cards,
- refill user card on card reader,
- refill user card on asset (GSM Modem required)
- modify user card validity date,
- printing receipts (customs edition),
- Blacklist (GSM Modem preferred),

Two payments mode are available :

- Pre-payment : the end-user asks for the refill of his card. Owner provides the invoice related to the refill.
- Post-payment : the end-user is given a card. The owner provides an invoice depending on the water consumptions on the asset park. Assets data retrieval is mandatory (GSM Modem preferred).

The database can be exported with subscriber lists, user cards and refilling data.

## Automatic alerts & reports

The information in the database can be sent with prefilled report available by email. For example, the admin can receive by email the water consumptions of each asset on a monthly basis.

Alerts may be set in case of alarms (low battery, low flow rate etc.) and sent to the maintenance team for intervention.

## Asset maintenance monitoring

For each asset, a maintenance section is available and gather all technical information related to the asset:

- Configuration : Index counter, drawn count, asset battery, modem battery, asset type, software version, owner code, area code, electronic ID, Temperature, time band, modem configuration
- Group: grouping of assets together for easy management
- Maintenance: list of maintenance card access
- Alarms: list of alarms that has occurred on the asset.

## Administration

MONETICARD WEB enables to assign access rights according to each owner staff's responsibilities, or other third parties:

- Create new admin/user account
- refilling of cards,
- asset tab,
- consumption tab
- select volume units,

The screenshot shows the 'MONETICARD' section of the software. It features a 'Subscriber listing' table with columns for Number, Name, and Address. Below it, there's a 'Cards of subscriber N°' table with columns for Card N°, Date, Zone, and Volume (m3). A 'Refilling historical for card N°' table is also visible, showing Date, Card N°, Request date, Billing date, Previous Volume (m3), Added Volume (m3), Value, and Location.

This form allows users to configure automatic exports. It includes fields for 'Format' (pdf, csv, xml), 'Report' (MONETICARD - Consumers), 'Frequency' (Daily, Weekly, Monthly, Quarterly, Half-yearly, Yearly), and 'Scheduling hour'. There are also checkboxes for 'Active' and 'Send by' (Mail, FTP) with corresponding fields for email addresses, FTP addresses, users, passwords, and destination folders. A 'Filters to apply' section on the right allows for filtering by 'Billing', 'Group', 'Zone', 'Hydrant N°', 'Created by', and 'Card N°'.

The screenshot displays the 'Description' tab for an asset. It shows fields for 'Index counter', 'Transaction number', 'Hydrant battery', and 'Modem battery'. Below this, there are tabs for 'Alarm', 'Maintenance', 'Group', and 'Configuration'. The 'Configuration' tab is active, showing 'General information' (Hydrant type, Software version, Operator code, Zone code, Electronic ID, Transaction unity), 'Temperature' (Temperature unity, Low T° transect threshold, High T° transect threshold), and 'Time range' (Time range 1 start/end, Time range 2 start/end, Time range 3 start/end).

The screenshot shows the 'Users' management section. It contains a table with columns for Mail address, Surname, First name, Function, Profile, Phone No., and Customer. The table lists various users with their roles, such as 'Chief products', 'Developer', 'Admin', 'User', 'Technician', 'Group IT Director', 'Resp. Commercial Admin', 'Web developer', and 'Admin'.

## MONETICARD WEB Requirements

Requirements to access MONETICARD WEB

- PC computer with USB ports and broadband internet access
- Acceptation of the conditions of use of the website <https://www.smart-inside.com>
- Owner IT authorization to access to the website <https://www.smart-inside.com>
- Installation of drivers for the card reader on the computer (admin rights are needed). Instructions for installing the card reader are provided. Drivers for card reader are provided.
- Installation of Services Bayard on the computer with the card reader (admin rights on the computer are needed). In case of proxy server, port 26 must be open for communication (Owner IT department is requested for this operation).

Owner is able to create other accounts for the persons in charge of the Moneca assets. All accounts may access to MONECA App by downloading the MONECA App on Google Play Store. Login and password are the same than for <https://www.smart-inside.com>

### Compatibility of MONETICARD WEB with Former versions of MONECA

A free Software Moneca2Web allows to collect data from former version of MONECA (version 3, 3.2, 4) and to edit files compatible with MONETICARD WEB.

## MONETICARD WEB Ordering & installation steps

Here are the steps for completion of a Moneca assets with MONETICARD WEB

1. Order MONETICARD WEB with the following statement  
Country / Town / Name of the company / Delivery address / Database administrator name / Email  
(if Customer already exist as owner, owner code must be precise)
2. In case of new owner, Bayard create a database with new owner code, and send the login/password to the given email
3. Card reader, security key, user and maintenance card are shipped.
4. Owner installs drivers for card readers, Service Bayard and creates accounts/Moneca assets life sheet
5. On field, the owner configures the MONECA SMART with MONECA App
6. The owner fills user cards and trains the MONECA users.

## MONETICARD WEB license

The MONETICARD WEB license is granted to an owner, with a unique owner code assigned by Bayard. Each PC with a card reader must have a license. With a given license, the owner can manage unlimited user/admin accounts and access to Moneca App.

## Data Security

The MONETICARD WEB is available on the website <https://www.smart-inside.com>. This website is hosted on a secure and high availability datacenter. It is a server where data and applications are hosted. Here the main features:

- Location of datacenter: France
- Back-up: the main server is automatically saved on a second server. The second server is also duplicated on a third server hosted 100km away.
- Secure access: SSL authentication certificate
- FTP Server: unique access by encrypted login and password
- Server certification: ISO27001