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## 1. Access

The BMetering Cloud platform can be accessed at the following link: <https://bmeteringcloud.azurewebsites.net/Account/Login>.

If this is your first login, use the **username** and **password** sent by B Meters.

If the concentrator was not purchased directly from B Meters, please contact the reseller, who will generate the access keys for the platform. The username will be the email address provided at the time of purchase.



**Note:** to quickly access the platform, scan the QR CODE.

Once logged in to the platform, you will be taken to the readings page.

## 2. Readings

On the page, the device data and their readings are displayed; moreover, by clicking on the magnifying glass it is possible to access the charts and history function.

By selecting the Serial number, it is also possible to access the map, showing the geographical location of the device.

## 3. View Management

The creation of views allows devices to be organized into installation groups.

The available functions are Create View, Delete View, and Rename View.

## 4. List Management



The list creation and editing functions are available in the List Management menu, which includes the following items:

- **CREATE NODE:** creates a new node in the view. A node is a subsection of the view used to group lists and any subnodes.
- **CREATE SUBNODE:** creates a subnode within the selected node.
- **RENAME NODE:** renames the selected node.
- **MOVE NODE DOWN:** moves the selected subnode one position lower among the nodes at the same level. For example, if in the view \ shown above "Staircase A" were selected and MOVE NODE DOWN were used, "Staircase A" would be moved below "Staircase B".
- **MOVE NODE UP:** similar to MOVE NODE DOWN, but moves the node one position higher.
- **DELETE NODE:** deletes the selected node and any associated subnodes.
- **NODE NOTIFICATIONS:** allows configuration of notification reception when alarms occur on any device in the selected list.
- **ADD RECORD TO NODE:** allows importing the WMBus or LoRaWAN master data record and assigning it to the selected list.
- **MOVE LIST:** Allows moving the selected node. Example: once selected, the APP 1 water node can be moved to staircase B or C.

## 5. Module Management

The Module Management menu, which consists of the following items:

- **ADD LORA OR WMBUS MODULE:** adds a module to the selected list.
- **ADD MODULE FROM LIST:** allows changing the serial number of a module present in the list, while keeping its master data.
- **IMPORT FROM OUTSIDE THE LIST:** allows adding a module from the list of modules received from the gateway that have not yet been added.
- **EDIT MODULE:** edits the module data.
- **DELETE MODULE:** removes the module from the devices associated with the list.
- **RESET MODULE ALARMS:** provides the function to reset the module alarms.
- **MOVE MODULE:** provides the function to move a module between lists.
- **COMPARE SELECTED:** provides the function to compare data between the selected modules.

## 6. Export

From the Export section it will be possible to export readings and master data:

- **EXPORT READINGS:** allows exporting the readings of the selected list according to the chosen template.
- **EXPORT MASTER DATA:** allows exporting the list to a file with the .15t extension.
- **TEMPLATE MANAGEMENT:** allows creating list templates to be used for exporting readings.

## 7. Configuration

By clicking on the configuration menu, five options will appear: **Customer Management**, **AES Key Management**, **RFM-C4 Management**, **Group Management**, and **Serial Management**.

Below is a detailed explanation of how they work.

### 7.1 Customer Management

On this page, the customers are displayed, and their management will be explained.

Clienti						
Name	Descrizione	Data Scadenza	Dispositivi Disponibili	Dispositivi Usati	Dispositivi Riconditi	
democloud	Demo Per Test	27/07/2021	5	1	0	
testdemo_cliente	Cliente C4	27/07/2021	0	0	0	

Utenti						
Nome Utente	Descrizione	Password	Scadenza Password	Tipo utente	Stato	
demo@bmeters.it	Demo	*****	06/02/2025	Letturista	Attivo	
demo_admin@bmeters.it	Utente Admin	*****	21/02/2025	Admin	Attivo	
test11@read.it			22/11/2025	Letturista	Cambiare Password	
demo_utentefinale@bmeters.it	Utente finale		20/11/2027	Utente finale	Cambiare Password	

RFM-C4 Associati				
Seriali RFM-C4	Stato	Proprietario	Sotto Proprietario	
LAS00213510	Assegnato	democloud	democloud	

In the Customer Management table, customer information is displayed.

#### Customers:

- **NAME:** customer name.
- **DESCRIPTION:** customer description.
- **ACTIVATION DATE:** shows the configuration date.
- **AVAILABLE DEVICES:** shows the number of devices associated with the customer.
- **USED DEVICES:** shows the number of devices in use by the customer.
- **RESOLD DEVICES:** shows the number of devices associated with a customer but resold to other customers.

#### Users:

- **USERNAME:** shows the email address of the user associated with the customer.
- **DESCRIPTION:** shows the user's name.
- **PASSWORD:** shows the user's access key and is automatically generated after all fields have been completed.
- **PASSWORD EXPIRATION:** shows the password validity period (2 years).
- **USER TYPE:** identifies the user type: reader, end user, or administrator. Different permissions can be assigned to each category.
  - Administrator: can manage and edit users, customers, readings, concentrators, and groups.
  - User: a user whose permissions can be selected by the administrator.
  - Reader: can view readings but cannot modify the settings and configurations set by the administrator.
- **STATUS:** indicates whether the user has already logged in (active) or still needs to perform the first access (Change Password).

In the "Customers" section, it is possible to add customers by clicking the + button in the top-right corner.

Nome	Descrizione	Data Scadenza	Dispositivi Disponibili	Dispositivi Usati	Dispositivi Rivenduti
democloud	Demo Per Test	27/07/2021	5	1	0
testdemo_cliente	Cliente C4	27/07/2021	0	0	0

It will also be possible to edit customers (pencil icon), delete them (trash bin icon), and assign sub-customers to them (+ icon).

Nome	Descrizione	Data Scadenza	Dispositivi Disponibili	Dispositivi Usati	Dispositivi Rivenduti
democloud	Demo Per Test	27/07/2021	5	1	0
testdemo_cliente	Cliente C4	27/07/2021	0	0	0

In the Users section, it will be possible to add a user to the selected company by using the button with the + icon located in the top-right corner.

Nome Utente	Descrizione	Password	Scadenza Password	Tipo utente	Stato
testdemo_cliente@bmmeters.it	cliente		27/11/2027	(Tutti)	Cambiare Password

Seriale RFM-C4	Stato	Proprietario	Sotto Proprietario
Nessun dato			

During the addition of a new user, it will be required to enter the email address, description, and user type (Admin, Reader, or End User). The password, password expiration, and status fields are automatically filled in by the platform.

By selecting a user, it will be possible to edit the user's master data (pencil icon), remove the user (trash bin icon), change the password (key icon), and send an access email containing the credentials (envelope icon).

**Note:** in case of a lost password, the administrator must be contacted. Through the key icon, the administrator can generate a temporary password, which will then be changed upon login.

#### Associated RFM-C4:

- **RFM-C4 SERIAL NUMBER:** shows the device serial number.
- **STATUS:** shows whether the C4 has already been assigned to a customer or is available.
- **OWNER:** identifies who owns the device.
- **SUB-OWNER:** identifies any sub-owner (e.g. a customer).

It will be possible to modify the various C4 parameters by clicking the pencil icon:

	Seriale RFM-C4	Stato	Proprietario	Sotto Proprietario
	LAS00213510	Assegnato	democloud	democloud

## 7.2 AES Key Management

In the AES Keys Management page, it is possible to choose between global or individual encryption keys.

**Individual AES Keys:** it is possible to select the key type and, by clicking the Upload Keys button, import an individual AES key for each module from a file with the .keys extension.

**Global AES Keys:** it is possible to manually enter the global key for managing multiple devices. The global key can be obtained through the Key Generator software available on the B METERS website.

**Note:** loss of the global key makes it impossible to recover it. In this case, the B METERS WM-Bus device will need to be reconfigured.

## 7.3 RFM-C4 Management

On this page, the purchased RFM-C4 devices are displayed. In the RFM-C4 table, the following device information is shown:

- **RFM-C4 SERIAL NUMBER:** identifies the unique serial number.
- **CONNECTION STATUS:** shows the current cloud status (e.g. waiting for data transmission).
- **CONNECTION/DISCONNECTION DATE:** indicates the date when the device connected and disconnected.
- **CURRENT TIME:** shows the most recent data transmission.
- **BATTERY LEVEL:** shows the battery voltage level.
- **TRANSMISSION INTERVAL:** shows how often data is transmitted.
- **RSSI (dBm):** shows the received signal strength.

Each RFM-C4 requires the configuration of the following parameters in order to transmit data correctly:

- **FTP:** a network protocol used to upload/download files from an FTP server. This field must be filled in with the details of your own FTP server.

- **EMAIL:** filling in this field allows data packets to be received via email (up to 5 email addresses can be entered).

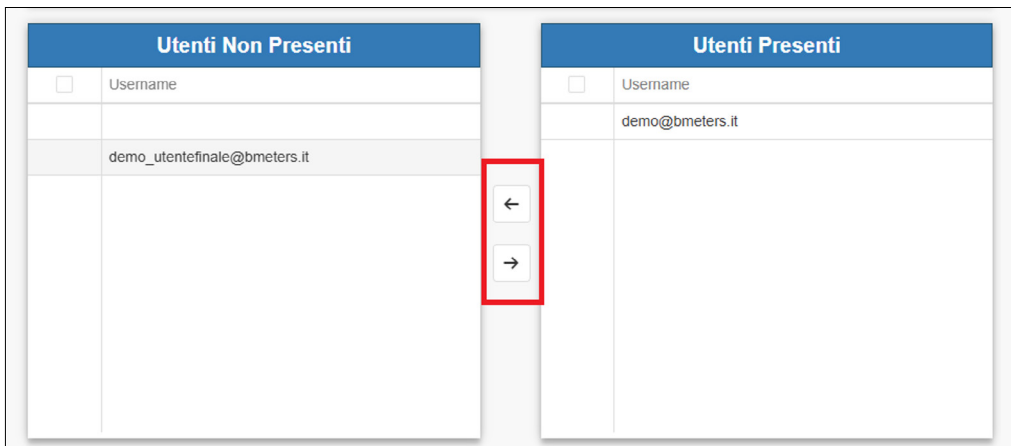
- **DATA SENDING:** allows selecting the email sending frequency. **Note:** hourly sending is available only when using your own SMTP server.

- **DATA FORMATS:** allows selecting the format and the content of the files received via email. **Note:** sending CSV or XML files is available only when using your own SMTP server.

- **LOGS:** system logs can be viewed (start-ups, shutdowns, transmission errors, etc.).

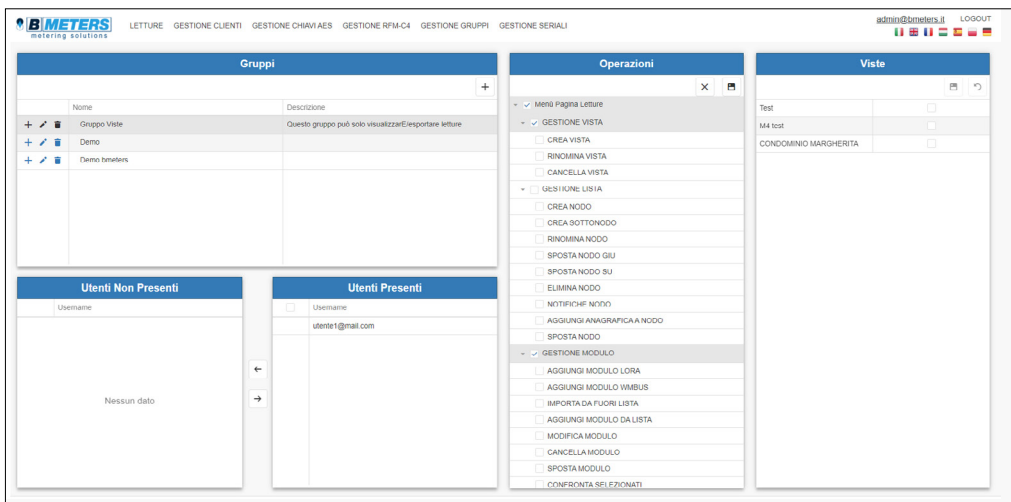
### 7.4 Groups Management

In the Groups table, it is possible to create groups and sub-groups. The two tables show the users who are present or not in the selected group. To move one or more users from one table to the other, simply select them and click the arrow button in the direction you want to move them.



The Operations table shows the system-coded menu items. The selected items are those that can be executed by users in the selected group. To modify the available operations, simply select/deselect the desired operation and click the Save button located in the top-right corner. The X button restores the situation to the last saved configuration.

**Note:** a sub-group inherits all operations from its parent group; therefore, the items selected in the parent group cannot be removed from its sub-groups.



### 7.5 Serial Number Management

The following functions are available on this page:

- **IMPORT LORA SERIALS:** allows importing LoRa serial numbers with a unique DevEUI code via a .csv file.
- **DELETE SERIAL:** deletes the selected serials from the list of imported serials. If a serial has been associated with a node and added to the network server, both associations are removed.
- **CHANGE CUSTOMER:** changes the customer to whom the serials are associated; any associations with nodes and the network server are removed.
- **CHANGE RESELLER:** changes the reseller to whom the serials are associated; any associations with nodes and the network server are removed.

### 8. Legend

It shows a list of alarms identified by different colors. These will appear when an alarm condition occurs, in the alarms column, represented by the corresponding color.