# Requirement’s documentation

## Glossary

## Requirements List

### Functional requirements

The Back Office Operator must be able to create new payment orders, specifying a bill by a list of candidate payment orders.

The Back Office Operator can issue not-issued payment orders.  
When a payment order is issued, it is given a protocol number generated incrementally.

The Back Office Operator can delete not-issued payment orders.

The Back Office Operator can reissue suspended payment orders.  
When a payment order is reissued his protocol number is not changed.

The Back Office Operator can save as not pertinent suspended payment orders.

The Back Office Operator can save as paid notified payment orders.

The Back Office Operator can save as suspended notified payment orders.

When a payment order is issued the system must generate and store a PDF document with all the useful communications for the contributor.

A user must be able to log in as a Back Office Operator in desktop application.

A user must be able to log in as a Readings Operator in mobile application.

The Readings Operator must have the list of the assigned readings updated automatically.

The Readings Operator can save readings specifying a meter and the water consumed.

The Readings Operator must be able to send saved readings via Internet.

### Non-functional Requirements

Payment orders can be seen and searched specifying a protocol, a debtor, a year, a trimester and/or a status.

The readings are first saved locally on smartphone and sent later only if internet connection is available.

To use the system every user must log in.

### Domain Requirements

Not issued payment orders can only be issued or deleted.

Issued payment orders can only be archived.

Once saved as paid or saved as not pertinent, a payment order must be archivied.

Suspended payment orders can only be reissued or saved as not pertinent.

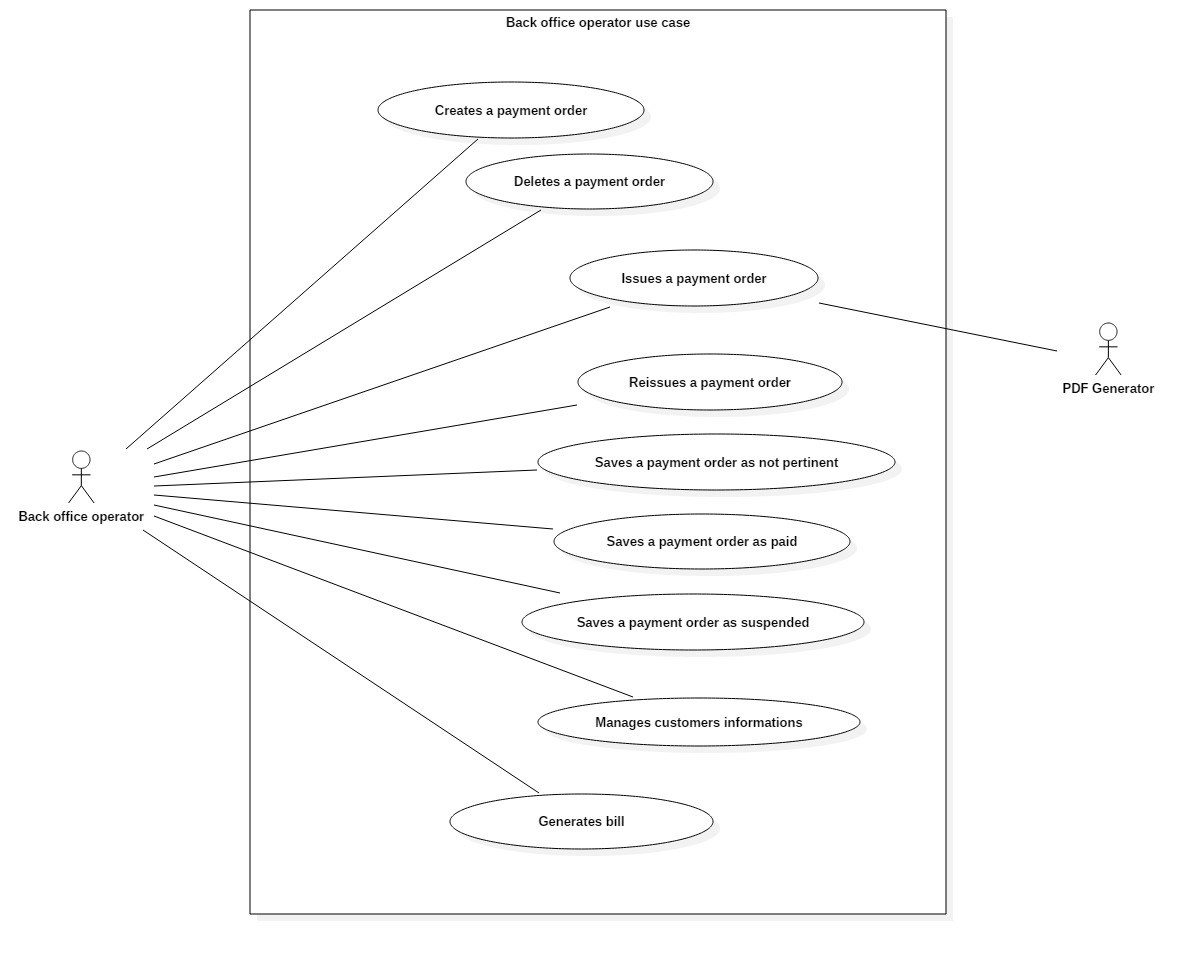
Every issued payment order is identified by a protocol number.

Notified payment orders can only be saved as paid or as suspended.

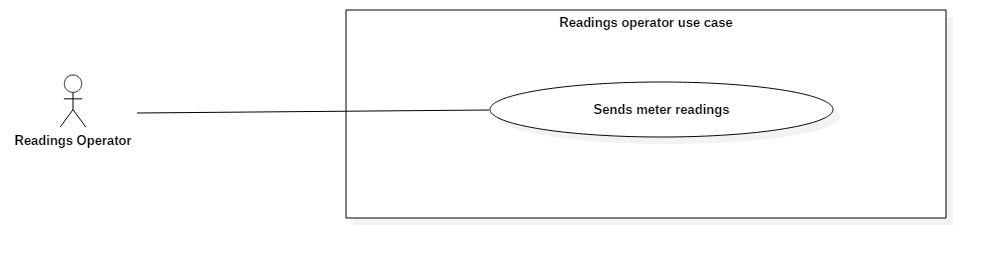
The considered unit of measurement of water is m3.

## Use Case Diagrams

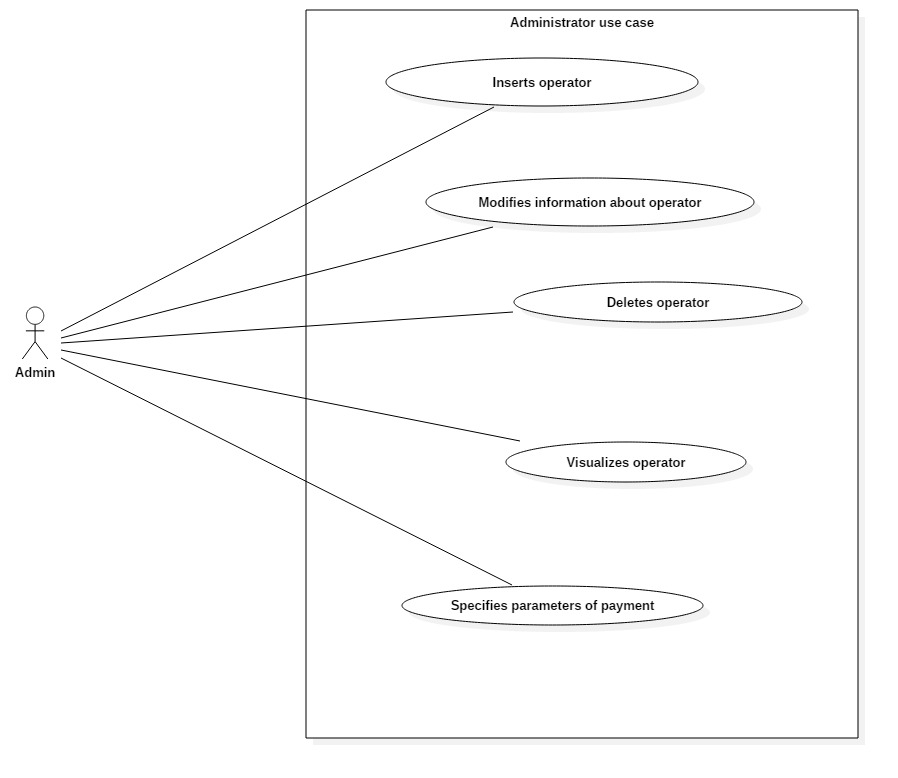
### Back office operator use case



### Readings operator use case



### Administrator use case



## Cockburn Diagrams for Use Cases

## User Interface Mockups

## Entity-Boundary-Control Class Diagram

## Sequence Diagrams

## State Chart