

# Fee Management System

Manage customer pricings. Charge for specific events or generate comprehensive billing period reports—our solution handles both.

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# Introduction

Fee Management System (FMS) simplifies fee management.

Define and charge fees instantly from customer balances or cards\*, or store fees without immediate charging for later reporting.

## Key features

- **Instant Fee Charging:**
  - Instantly charge customer balances or cards\* for specific actions.
- **Generate Reports:**
  - Store fees without immediate charges and generate detailed reports for billing periods (monthly or weekly) to settle with business clients.

\* Fee instant charging capability requires integration with Antaca (Verestro's balance and card management product).

# Overview

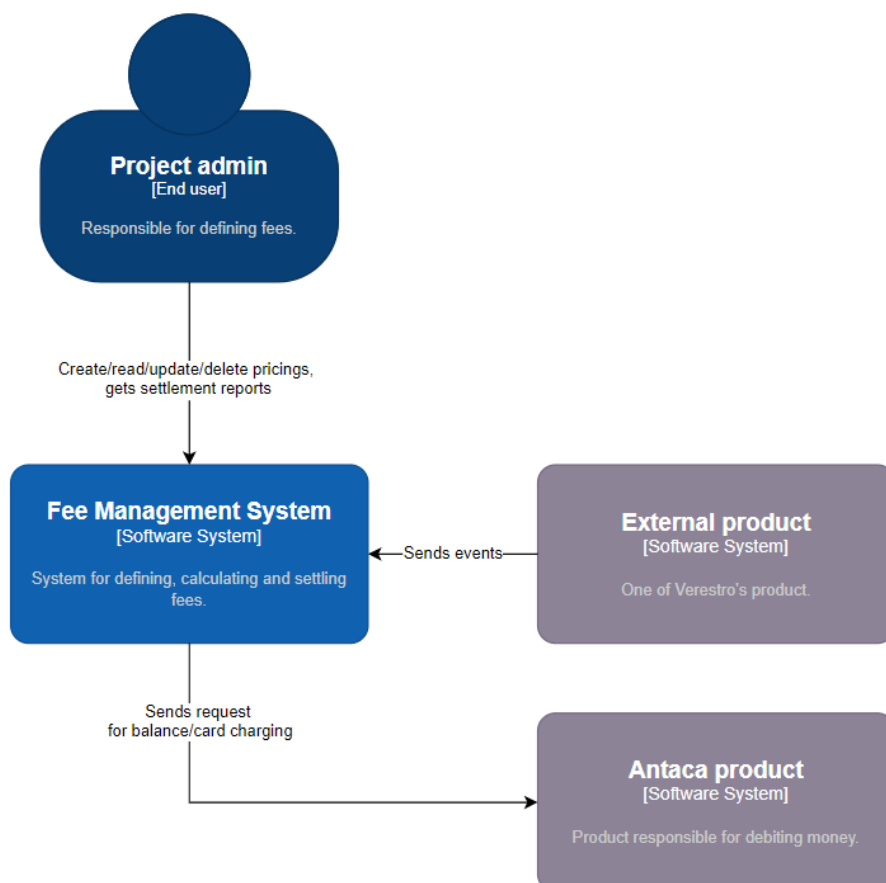
Fee Management Platform (FMS) streamlines fee handling and integration. Easily define fees, instantly charge customers, and generate billing reports.

## Key Components:

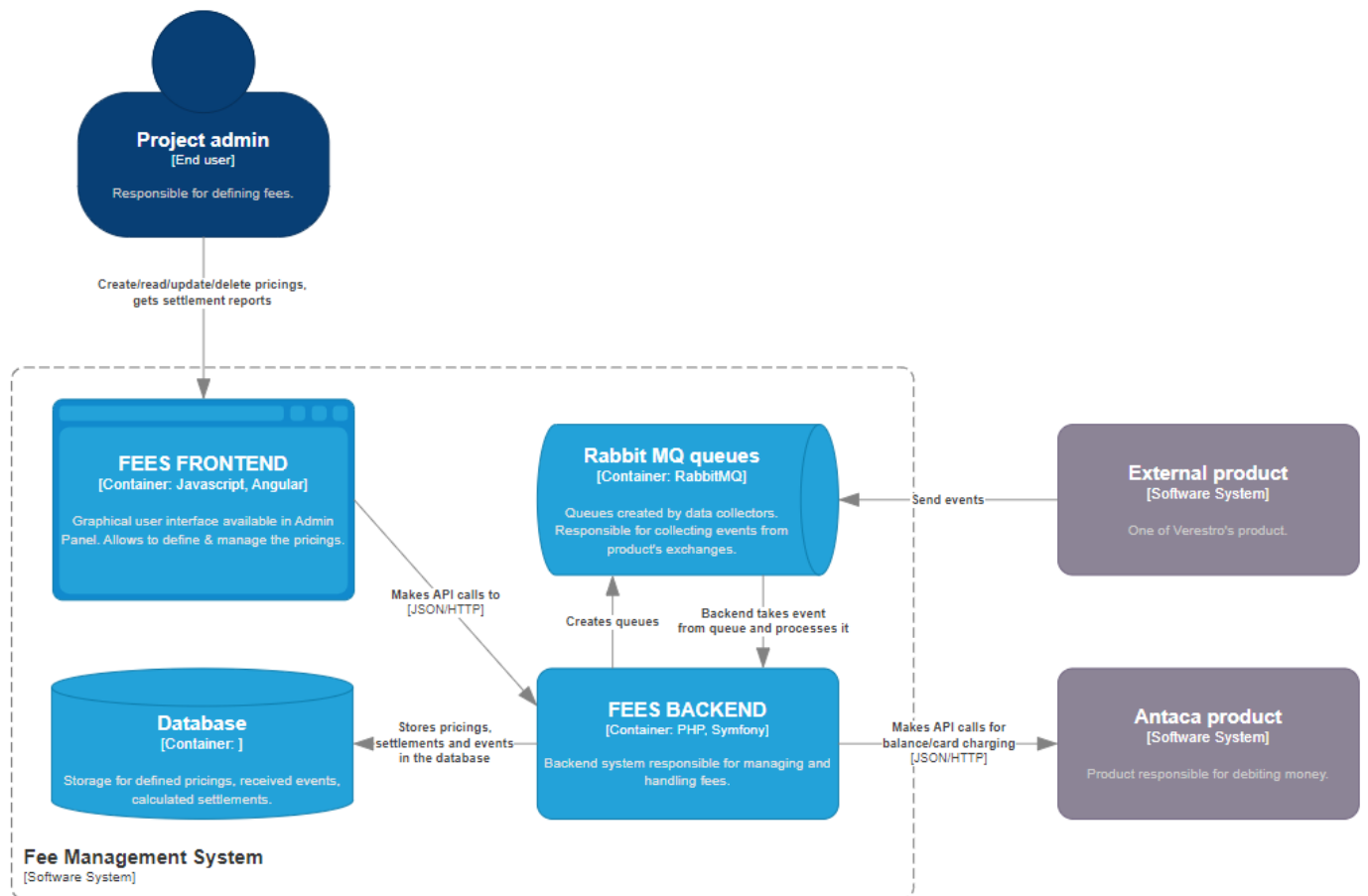
- **Fees API:** Collects events, calculates fees, and stores data. Supports optional instant charging.
- **Admin Panel:** UI for fee definition and management.
- **Antaca API:** Executes balance/card charges for instant fee transactions.

# Architecture

## C4 Context diagram



## C4 Container diagram



# Key product features

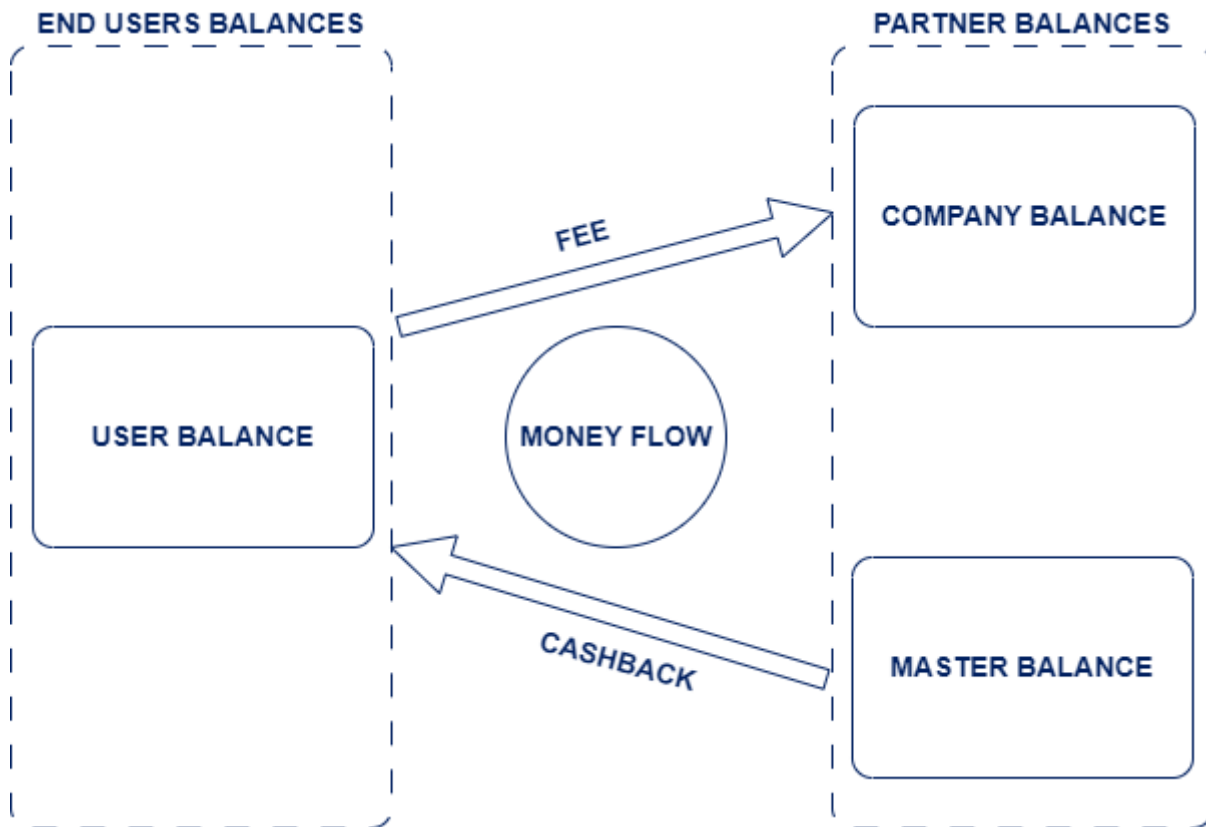
## Instant fee charging

Calculating the fee for a defined service and instantly deducting the funds from the balance or payment card of the end-user who initiated the transaction.

**This feature is available only when end-users' balances/payment cards are stored on Antaca's side or are external, but integrated with Antaca balances.**

## Fee money flow

Fee is an internal transaction for a partner who wants to **debit** the **user's balance** as a fee. Our card & balances management system (Antaca) automatically **credits** the **company balance** with the funds that were debit the user's balance.



## Invoice settlement

Charging defined fees for specific services without actually enforcing payment. A report can be generated from the calculated fees, and then an invoice can be issued.

## Transactions (events) subject to fees

### Events we can charge for:

(instantly charge end-user's balance/card stored in Antaca)

- Card issued (Issuer - Quicko)
  - Virtual card
  - Physical card
- Card maintenance monthly (Issuer - Quicko)
  - Virtual card maintenance
  - Physical card maintenance
- Cleared / authorized transaction
  - ATM (domestic/intra/inter)
- IBAN events
  - Incoming transaction
  - Outgoing transaction
  - IBAN created

## Events we can collect fee for (without debiting balance)

### Events we can collect fee for:

(report generating without balance charging)

- Antaca card created (Issuer – Quicko)
  - Virtual card
  - Physical card
- Cleared / authorized transaction
  - POS (domestic/intra/inter)
  - eCommerce (domestic/intra/inter)
  - ATM (domestic/intra/inter)
  - ApplePay debit transaction (on-site)
  - ApplePay debit transaction (remote)
- IBAN events
  - Incoming transaction
  - IBAN created
- Transaction on technical balance
  - Currency exchange (FX)
- Card maintenance (weekly, monthly)
- Tokens maintenance (weekly, monthly)

## Fee management options

Set up fees for card issuance and account management through the Admin Panel. Fees can only be configured by a licensed financial institution (BIN Sponsor). If a client isn't a financial institution, their BIN Sponsor must set up the fees.

### Two management options:

1. Partner manages and charges fees externally (outside Verestro).
2. Partner utilizes Verestro's built-in fee management module.

## Fee settlement types

Fee Management System (FMS) offers various settlement types. Each configured fee in the FMS has its own settlement type, offering flexibility to meet specific needs.

### Instant settlement

We charge the fee instantly, right after the occurrence of the event (transaction), utilizing the Antaca API.

FMS can charge either customer's card or balance (the ones managed by Antaca API).

## Invoice settlement

We do not charge the fee, we only calculate it and it is stored in our database.

FMS can generate a summary report (weekly or monthly) for fees of this type.

## Fee calculation types

Fee Management System (FMS) provides diverse fee calculation methods, ensuring adaptability to distinct requirements. Each configured fee in the FMS is associated with a specific calculation type, allowing for tailored and precise fee management.

### Fixed price

We calculate the fee as a fixed price, defined as a specific amount with a designated currency.

Example: We can calculate 0,5 EUR for any issued card.

### Percentage

We calculate the fee as a percentage, defined as a specific rate of the transaction amount.

The fee can then be stored either in the transaction's currency, or we can predefine a settlement currency for this type of fee.

Example: We can calculate 0,5% for ATM withdrawal, charged in transaction currency.

### Mix

We can combine the two aforementioned types (fixed, percentage) to form a single fee.

The fee will be stored in predefined settlement currency.

Example: We can calculate 0,2 EUR + 0,5% for ATM withdrawal, charged in predefined settlement currency e.g. EUR.

There is implementation on-going to have conditional fees like - *"If users do 1000 EUR transaction monthly, we do not charge monthly fee"*.

# Service types

Another important aspect of the system is that we can distinguish whether the fee is defined for individual units or cumulative. In simple terms, if a user intends to charge a fee for each unit, it is labeled as a Unit service. On the other hand, if they prefer to apply tiered or volume pricing for a set number of transactions (events), we refer to it as a Cumulative service.

When defining a fee, the user needs to specify whether it will be a fee for a unit service or a cumulative service.

## Unit service

The FMS allows to define the fee for unit services when the price should be independent of the quantity of services used by the customer. This means that for any transaction (event) that occurs, we calculate a predefined price. Example: We can calculate 0,5 EUR for any issued card.

<b>Fee calculation time</b>	instantly
<b>Available price calculation models</b>	fixed, percentage, fixed + percentage
<b>Settlement types</b>	instant (debit balance/card), invoice (store settlement in database)
<b>Additional features</b>	<ul style="list-style-type: none"><li>• free tier per actor per period (e.g. first 2 issued cards (lifetime period) per cardholder are free)</li><li>• filtering events by any event field (e.g. define fee only for domestic transactions, charge only for card issued with EUR currency etc.)</li></ul>
<b>Examples</b>	<ul style="list-style-type: none"><li>• Card issuance fee – 0.5 EUR per issued card</li><li>• ATM withdrawal fee – 2% of transaction amount</li></ul>

## Cumulative service

The FMS allows to define the fee for a cumulative service when the price depends on the quantity of services used by the customer. This means that we calculate a total price after we receive a summary event, which provides information about the quantity of transactions (events).

<b>Fee calculation time</b>	at the end of the billing period (weekly, monthly)
<b>Available price calculation models</b>	tiered pricing, volume pricing
<b>Settlement types</b>	invoice (store settlement in database)



<b>Additional features</b>	<ul style="list-style-type: none"> <li>Free tier when define first tier from 1 001 event (first 1000 events won't be charged)</li> </ul>
<b>Examples</b>	<ul style="list-style-type: none"> <li>Card maintenance fee: 0.2 EUR up to 10 000 cards, 0.18 EUR up to 20 000 cards</li> <li>Token maintenance fee: 0.02 EUR up to 100 000 tokens, 0.018 EUR up to 500 000 tokens</li> </ul>

In simple terms, if FMS user wants to apply tiered or volume pricing for a set number of transactions (events), they should opt for the Cumulative service.

Example and comparison of Tiered vs Volume pricing is in table below.

<b>Volume pricing</b>	<b>Tiered pricing</b>
01-20 = \$10 per event 21-30 = \$8.5 per event 31-40 = \$7 per event 41+ = \$5.5 per event	01-20 = \$10 per event 21-30 = \$8.5 per event 31-40 = \$7 per event 41+ = \$5.5 per event
<b>Cost breakdown:</b> You have sold 60 widgets. This is in the range of 41+; all widgets will cost \$5.5 each.	<b>Cost breakdown:</b> You have sold 60 widgets. First 20 widgets cost \$10 each. Next 10 widgets cost \$8.5 each. Next 10 widgets cost \$7 each. Additional widgets cost \$5.5 each.
<b>Total cost = 60 x \$5.5 = \$330</b>	<b>Total cost: (20 x \$10) + (10 x \$8.5) + (10 x \$7) + (20x \$5.5) = \$465</b>

## Recurring service

The FMS allows to define the fee for recurring service when they want to establish a recurring fee with a fixed price. This means that at the beginning of every billing period, the fixed price will be saved in the settlements. This type of service is only applicable with invoice settlement.

<b>Fee calculation time</b>	at the beginning of the billing period (daily, weekly, monthly, yearly)
<b>Available price calculation models</b>	fixed price
<b>Settlement types</b>	invoice (store settlement in database)
<b>Additional features</b>	<ul style="list-style-type: none"> <li>Fee can be charged once in a period (daily, weekly, monthly, yearly)</li> </ul>

<b>Examples</b>	<ul style="list-style-type: none"><li>• Monthly project fee</li><li>• Monthly maintenance fee per project</li></ul>
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\* The functionality marked with '\*' is currently under construction. We appreciate your understanding as we work to enhance this feature.

# Use Cases

This chapter describes the processes within the Fee Management System from both the Customer's and end user's perspectives.

## Instant Fee Charging

FMS allows setting up pricing to instantly calculate and deduct fees from an end-user's balance or payment card.

**This feature requires that the user's balances/cards are managed by or integrated with Antaca (Verestro's card management system).**

## Fee Collection & Reporting

FMS enables setting up pricing to calculate fees without immediate charging. Fees are aggregated into reports and then an invoice can be issued.

## Cashback

A card benefit that refunds a percentage of the purchase amount to the cardholder. Used to incentivize spending and reward customer loyalty.

More info about cashback: [Cashback | Verestro Developer Zone](#)