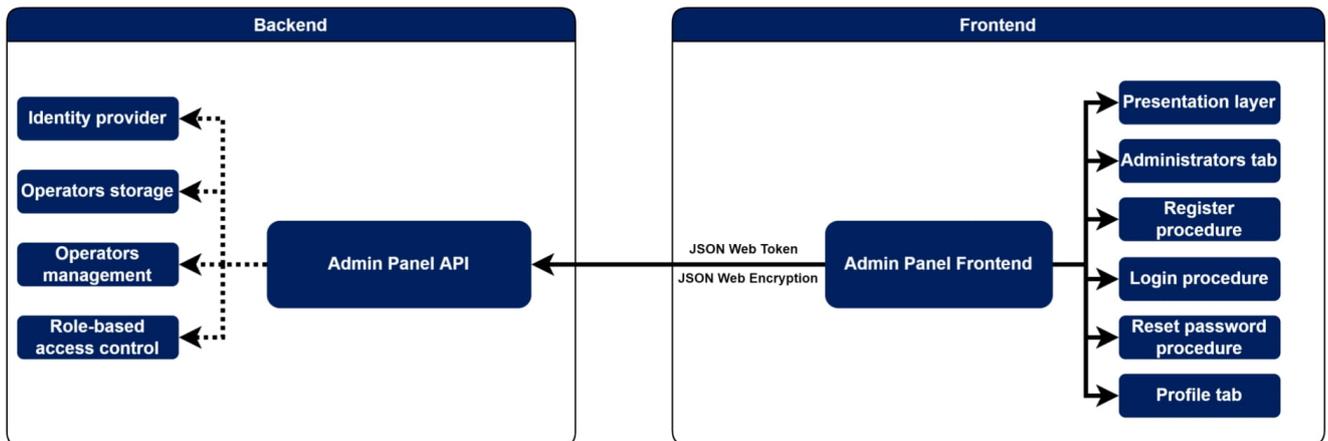


# Intro slides

## Admin Panel Core

The base admin panel provides only the framework of the web application along with the portal operators. It has no connection to external services, the whole product consists of API (PHP) and Frontend (Angular). The main responsibility is to enable basic application processes such as: registration, authorization and operator management with role-based restrictions.



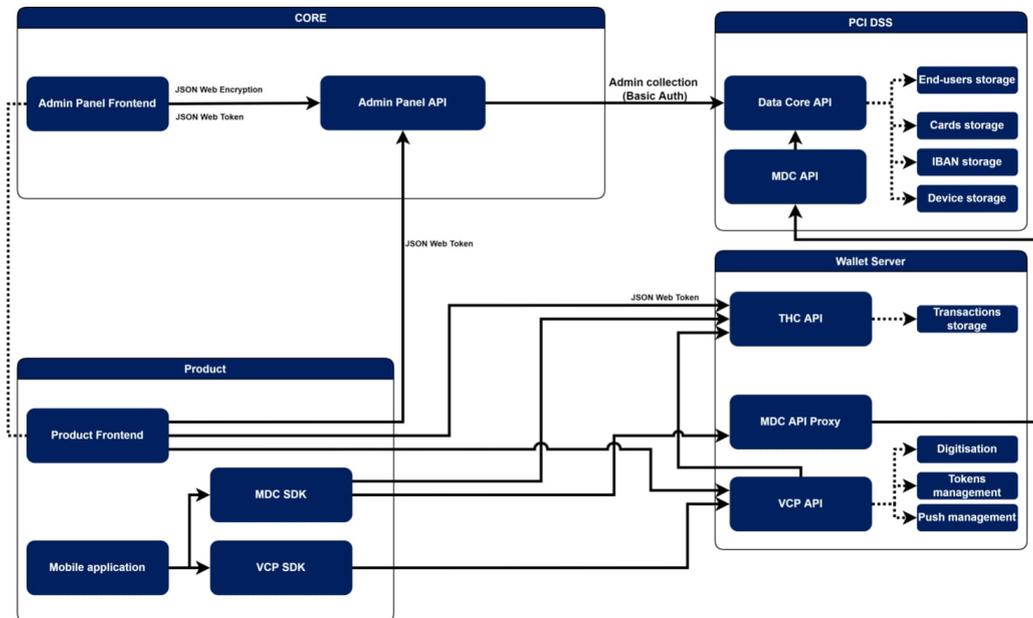
## Product functionalities

We consider any extension that decorates and uses Core Admin Panel to be a product. The type of technical implementation is not important, Admin Panel has connectors for PHP and Java - for other languages it is possible to create your own connector.

Product	Description	Instances
VCP	Verestro Cloud Payments provides integration with MDES and management for cards, devices, customers, ibans and tokens.	AirPay, BOJ, Grab, Quicko, RBL, PartnerBank, DTB, Cred
THC	Transaction History Core allows to show list of transactions related to the Issuer/Bank with details of particular transaction. Additionally there is possibility to generate report of transactions.	AirPay, BOJ, Grab, Quicko, RBL, PartnerBank, DTB, Cred
TMP	Token Management Platform is a solution created in order to allow much easier connection to TSP(MDES, VTS). That can be used for card „pre-digitization“ from all token requestors with minimum development on the issuer side .	BRD, Quicko, UBB, Partnerbank, ICMP, Q4B, Financiera
BC	Business Control is a product that allows to manage virtual cards from creation, through limitation of the card, to assignment to the end-user for a specific period of time.	ICMP, Q4B, Financiera
MACS	Mastercard provides different benefits for the premium cardholders in CEE countries which includes free access to the MC Lounges and fast line at the airports. This product allows to manage special conditions for cardholders' access.	Ruga
PREPAID (Antaca)	The Prepaid (Antaca) product is responsible for providing card issuance functions. In particular, the ability to open and maintain accounts/balances. For the individual accounts maintained, it is possible to generate virtual as well as physical cards with the possibility to manage them. For certified issuers, tools are provided to settle transactions with the card issuer.	Quicko
PH	Marketing content management system for Mastercard, marketing agencies and issuers. Allows to manage the processes of personalizing campaign materials for their communication purpose	Ruga
RPM	The RPM product in the admin panel primarily allows you to manage individual components of the loyalty program such as prize catalog (including setting limits and decorators for each item), benefits or partners.	Ruga

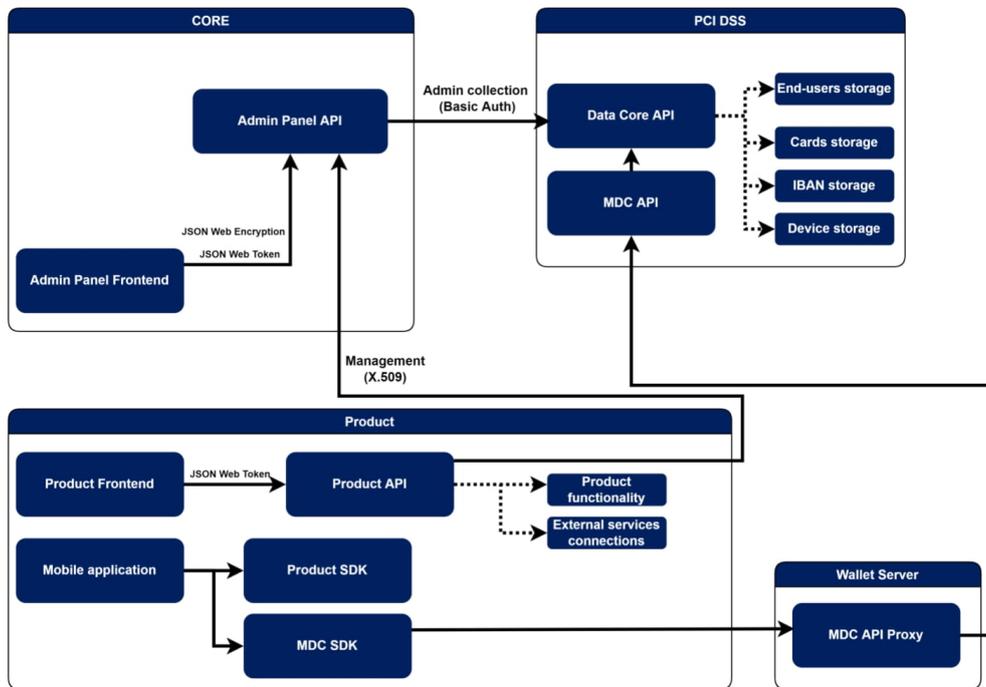
# Admin Panel – MDES implementation

The most popular use of Admin Panel in Verestro is the implementation for MDES projects. Using Product API there is possible to create a project allowing to manage cards, devices and customers using the web application as access point to the system.



# Admin Panel – Product implementation

Using admin panel it is also possible to create other types of applications. Not related to MDES at all. An example is Business Control, which allows to generate and manage virtual cards or Priceless Hub which gives the ability to manage promotional campaigns.



# Admin Panel – Standard theme

Admin panel has two layouts. The standard one, used for most panels since the creation of the "new admin panel" can be seen on the attached screenshot. It stands out for its simplicity and clarity.

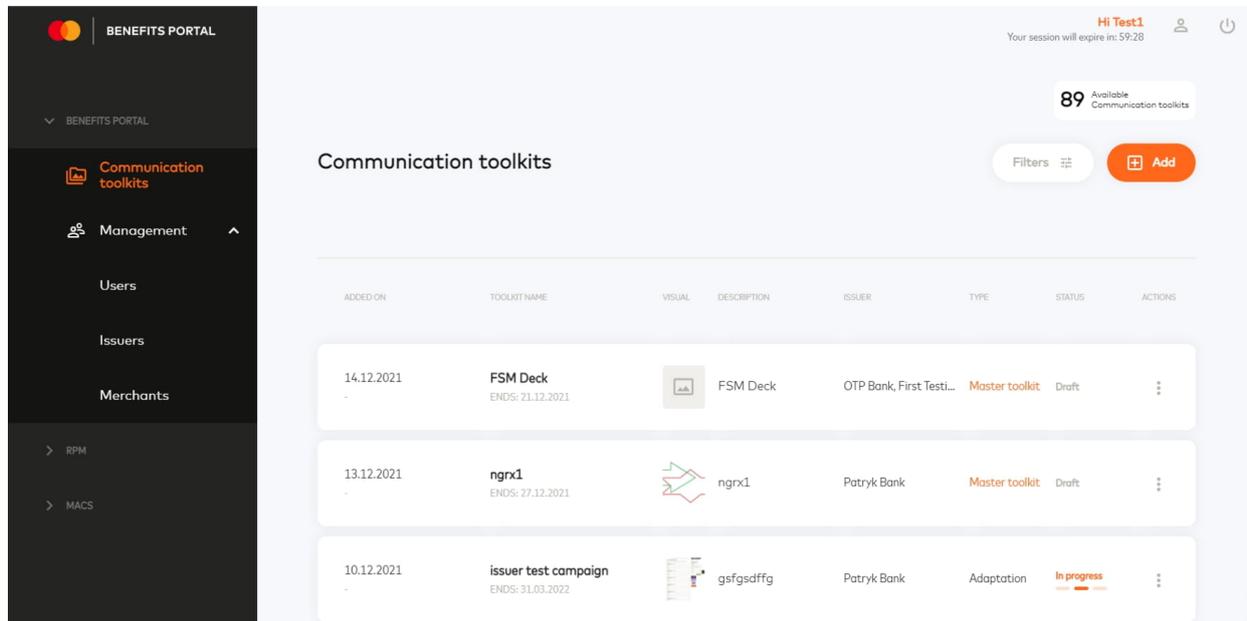
The screenshot shows the 'Partner Bank Tokens' admin panel. On the left is a navigation sidebar with categories: CUSTOMERS, TOKEN MANAGEMENT (containing Tokens, Payment history, and Reports), and PORTAL MANAGEMENT. The main content area has a header with the 'partnerbank' logo, user information 'Hi John, Admin', and a session timer. A 'Generate tokens report' button is in the top right. Below the header is a 'Filters' section with input fields for Phone number, VPAN, User name, User e-mail, Status, Path, Date range, Card last 4 digits, Token last 4 digits, and Token requestor. A 'Payment scheme' dropdown is set to 'Mastercard'. Below the filters is a 'List of tokens' table with two rows of data.

VPAN	Payment scheme	Token	Phone number	User name	Status	Token requestor	Device	Path	Process start	Actions
MOCKED_677082		6626	+48 999 999 999	John Doe	Active	Google Pay	MastfPHONE	green	22-02-2023 15:32	⋮
MOCKED_677082		1805	+48 999 999 999	John Doe	Active	Google Pay	MastfPHONE	green	22-02-2023 15:32	⋮



# Admin Panel – Ambro theme

In 2021, a new layer of admin panel presentation was created as the Ambro theme. The first instance that had it implemented was Ruga. What sets it apart is its modern design. Ultimately, it will be possible to use it for MDES panels as well.



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