API – Silicon vs Cyclos

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# Introduction

This document will outline the API integration requirements on a high level and will be a ever evolving document until all API requirements have been met.

It will attempt to identify critical integration points with screenshots from Cyclos and the corresponding API to be invoked with Silicon.

The term SmartWallet and Cyclos can be use interchangeably.

For purpose of this document; SmartWallet is a registered entity and will own it’s software pruducts. Cyclos is an existing piece of software which will be used as the basis to configure the wallet applications (web and mobile) for SmartWallet.

Henceforth the Cyclos application will be known and described as SmartWallet (SW).

For the purpose of this document we’ll be referencing an already created Network and can be found here:

https://smartwallet.africa/smae

It may contain errors or incomplete information as this is a steep learning curve for all parties involved.

# Networks

SmartWallet (SW) will sign up customers/entities known as Networks.

Networks will be configured in SW, each with it’s own branding and specific settings in regard to fees, operational process, currency, etc.

Each network will have it’s own customer base (which can inter-transact under the umbrella of SmartWallet (Company).

Thus, for each Network a corresponding Network will be created in Silicon.

# User Registration via Silicon interface

This link is for information purposes only. SmartWallet will not use this URL to register new users. Instead SmartWallet will make use of Cyclos. Hence the API integration requirements between Cyclos and Silicon.

<http://smartwallet.staging.siliconenterprise.net/#/sign-on/sign-in>

# API information

API Network ID - ZA-59PKIBWDU0HEX

API Key - 9QZ9KNODgpy2SdQneF8ZY874F5kccjY6

# API List

## Authenticate

## Register Authority

Assumption:

This API is used to register a System/Network within the Silicon platform under the main account of SmartWallet.

This is therefore triggered when a new Network is created on SW. Only Global Administrators on SW can perform this task.

Graphical user interface, application

Description automatically generated

Once this process is complete various tables on the SW database will be updated with the detail of the new Network.

This is therefore the trigger to invoke this API.

NETWORKS Table in SW

Graphical user interface, application, table

Description automatically generated

## Register Consumer

This API is used to register consumers/account holders on the Silicon platform.

Thus, when a consumer registers on SmartWallet.

For purpose of this document we are using: <https://smartwallet.africa/smae>

Graphical user interface, application

Description automatically generated

When submit is clicked an entry will be written to the SW database. At this point the *Register Consumer* and *Create Wallet* API’s must be invoked.

The USERS table is updated with the newly created user.

Table

Description automatically generated

And the ACCOUNTS table is updated with a new Account

Graphical user interface, table

Description automatically generated

## Issue Instrument

Not used for now

## Register Operator

Not used for now

## Create Wallet

To be used in conjunction with *Register Consumer* API.

## Refresh Token

## Request Account Verification

## Recover Consumer

Not used for now

## Reset Consumer Password

Not used for now

## Stop Instrument

Not used for now

## Cash out Wallet

## Merge Wallet

## Wallet Refund

## Wallet Sale

## Top Up Wallet

## Wallet Transfer

## Check Consumer

## Update Consumer

## Check Device

## Check Instrument

## Check Wallet

## Sync Instrument

## Wallet Transactions

## Wallet Balance

## Wallet Sync

## Retrieve Account Verification

## Device Instrument Report

## Device Reconciliation Report