# Specification for development of PRESTASHOP payment plugin/module for Société Générale – EPOS project

## 1 – Context and definition of project

Société Générale (SG) has launched a project for proposing a Pan-European credit financing offer (ePOS) for E-commerce Merchants. Some of those Merchants who are using CMS e-commerce platforms such as PRESTASHOP, MAGENTO, SHOPIFY … expect to have a smooth integration of ePOS offer using integration of standard PRESTASHOP payment plugin/module capability.

## 2 – Goal of this project

Development of a new PRESTASHOP plugin/module payment method and integration of an existing payment/credit financing solution ePOS via API (see documentation <https://github.com/rocchisanijl/SocGen-BaaS-ePOS-mechant-integration> ).

## 3 – Scope of project

* PRESTASHOP e-commerce platform integration

## 4 – Functional & Technical requirements

1. Development must conform PRESTASHOP norms and guide lines (see PRESTASHOP documentation <https://devdocs.prestashop.com/1.7/modules/payment/> <https://devdocs.prestashop.com/1.7/development/coding-standards/> <https://devdocs.prestashop.com/1.7/development/naming-conventions/> )

The module/plugin should be integrated as official PRESTASHOP payment list

See <https://api.prestashop.com/xml/tab_modules_list_17.xml>

1. Development should reuse skeleton propose by PRESTASHOP <https://github.com/PrestaShop/paymentexample>
2. Development integration flows are described below.
3. The plugin will call existing ePOS SmartCredit application via API as an “External Payment option” (see documentation <https://devdocs.prestashop.com/1.7/modules/payment/#paymentoption-types> )
4. Plugin will allow to propose to end-user multiple payment methods[[1]](#footnote-1) choices for consumer (at least split payment and/or credit financing). Payment method is one of parameter of the ePOS API to be called. Each payment method could have a different url logo and additional information (see <https://devdocs.prestashop.com/1.7/modules/payment/#paymentoption> )
5. Availability of payment method to be proposed are depending of following rules:
   1. The list of payment methods available will be customizable by merchant admin at configuration of plugin (for instance a merchant would have only FRF\_3X, FRF\_4X methods available).
   2. Then from the resulting list (cf a.) customized by the merchant additional rules are applied on run.
      1. Delivery address: if delivery address is France than payment method is FRF\_XXX. If delivery address is German payment method = “REVOLVINGPOS”
      2. Amount to be financed:
         1. we should propose FF\_XXX payments methods only if amount to be financed is >=100 euro. This amount is customizable
         2. We should propose REVOLVINGPOS method only if amount to be financed is >= 150 euro. This amount is customizable.
6. Plugin will be configurable as other standard PRESTASHOP payment method. in the configuration, the merchant admin will enter its API client and secret keys that should be stored **in a secure manner[[2]](#footnote-2).**
7. Before calling ePOS API, Plugin will have to get an access token with Merchant ID and secret key. Access tokens have an expiration time (15 min by default). Coding should be optimized to avoid calling too much access token endpoint.
8. Management of customer application status (Payment or credit financing):
   1. Status of customer application is not returned synchronously. The API “/do-initialize” to initiate the payment or credit financing will return a redirection url or page to ePOS solution and the customer journey will begin (see diagram below). At the end of customer journey ePOS solution will redirect user to the call back url passed initially in parameter. Then it is possible to obtain status with another API “/do-search”.
   2. Status list (see the documentation <https://github.com/rocchisanijl/SocGen-BaaS-ePOS-mechant-integration> )
   3. Returned status must be mapped with PRESTASHOP statuses (see PRESTASHOP documentation <https://doc.prestashop.com/display/PS17/Statuses> ).
      1. ACCEPTED = “Payment accepted”
      2. ABORTED or REJECTED = “Payment error”
      3. CANCELLED = “Cancelled”
      4. REIMBURSED = ” Refund”
   4. Additional statuses to add
      1. INITIATED = “Processing Payment or credit financing”
      2. PRE-ACCEPTED or KYC-SUCCESSFUL = ”Processing Credit financing”
9. Webhook management: Webhook management are for now out-of-scope of this first development.

Une image contenant table

Description générée automatiquement

## 5 - Budget

An estimation for a fix price is demanded.

## 6 – Deliverables

* Sources + Documentation (readme …) + installation guidelines conform to PRESTASHOP standard installation.
* A test and end-to-end demonstration are to be provided as acceptation criteria. A temporary test environment will be proposed to the customer for the final validation.
* The new module/plugin may be integrated as official PRESTASHOP payment module list as acceptation criteria

1. Existing Payment method codes are: **FRF\_3X, FRF\_4X, FRF\_3X\_F, FRF\_4X\_F, REVOLVINGPOS** [↑](#footnote-ref-1)
2. API secret must be stored in a secure manner (for instance a secure vault) and not in clear in the code. [↑](#footnote-ref-2)