Pennies Integration Guide

**Document Revision History**

| **Revision** | **Author** | **Date** | **Status and Description** |
| --- | --- | --- | --- |
| 20.0.1 | Soumya raj M | 20-02-2020 | Initial version |
| 21.1.3 | Wirebox | 10-05-2022 | Compatibility mode to 22.6 |
| 21.1.4 | Wirebox | 14-07-2023 | Documentation updates Addition of soundbite and title fields Adds transaction ID to reporting call Adds support for EUR/USD currency Add Order Reporting  Tested on SFRA 6.3.0 |

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# Overview

The pennies cartridge implementation provides the feature of integrating the Pennies Charity with other clients. The donations can be made to pennies through this cartridge.

The integration consists of an archive with contents as described in the below table.

|  |  |
| --- | --- |
| **Name** | **Purpose** |
| cartridges | Contains Pennies integration cartridges |
| cartridges\int\_pennies\_SFRA | This cartridge contains the SFRA specific changes required for Pennies integration |
| cartridges\int\_pennies\_core | This cartridge contains the code for the storefront changes, Integration framework and Service framework (Pennies API call). |
| site-template | Contains custom attributes and settings required for the integration |
| documentation | Contains this document “Pennies Integration Guide” |

# Features

The integration described in this document supports the following features:

* Ability to toggle the integration on/off on the storefront.
* Ability to configure the merchant id and access token through site preferences.
* Pennies donation to be displayed only if session currency is GBP/EUR.
* Pennies donation banner to be displayed only if merchant Id and API key is not empty
* Donation amount to be added to basket/order in such a way that it’s not included in the Demandware Revenue model.
* Donation amount to be calculated based on basket total
* Remove donation from basket if basket total changes after adding the donation to basket.

# Limitations, constraints

Pennies cartridge currently supports only UK and EUR currencies. So, pennies donation can be enabled only for the sites which has UK or EUR currency enabled.

# Compatibility

Available since Commerce Cloud Platform Release 18.10, SFRA 6.3.

The cartridge is available for installations on storefronts that support both SFRA and Site Genesis implementations, site genesis is no longer maintained and is provided as a legacy version.

# Installation

## Cartridges

Cartridges relevant for controller version are int\_pennies\_SFRA and int\_pennies\_core

## BM Imports

### Cartridge path

Add the cartridges shown below to the beginning of the cartridge path

|  |  |
| --- | --- |
| Site Cartridge Path | int\_pennies\_SFRA:int\_pennies\_core |
| BM Cartridge Path | int\_pennies\_core |

### Metadata Import

Through site import/export please import the files in **site\_template**

Note: *Please note that the cartridges need to be imported first before importing the site\_template as the Job Schedules import will fail if the cartridge int\_pennies\_core isn’t uploaded to BM.*

### Services Import

The following new services has been created as part of the integration.

* pennies.donation.http.service
* pennies.calculation.http.service

Import File: ***site\_template\services.xml***

Please set the URLs as shown below based on the instance where the cartridge is being integrated

|  |  |
| --- | --- |
| **Environment** | **URL** |
| Non production instances | https://testapi.pennies.org.uk/v1.1/donation |
| Production instances | https://api.pennies.org.uk/v1.1/donation/ |

### Jobs Import

Following jobs have been developed as part of cartridge.

|  |  |
| --- | --- |
| **Job Name** | **Job Description** |
| Generate Pennies Donation Report | This job generates the pennies donation report. The report contains only orders whose donation details have been exported to Pennies |
| Post Pennies Donation Details | This job posts the donation details of orders whose donation status has been marked as ‘Ready for export’ using the Pennies Post Donation API and should be scheduled to run daily. |
| Pennies - Solicitation Reporting | This job posts the order totals to Pennies and should be scheduled to run daily. |

Import File: ***site\_template\jobs.xml*** (*Please note, importing jobs xmls work only in replace mode*)

*NOTE: Please change the site-id to the correct site id before importing. As this is scheduled job, please check and update the frequency as per merchant requirements.*

#### Generate Pennies Donation Report Job Configurable Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Mandatory** | **Type** | **Description** |
| ReportStartDate | N | Date | This parameter is indicating the start date when the report has to be generated based on date range |
| ReportEndDate | N | Date | This parameter is indicating the end date when the report has to be generated based on date range |
| FileNamePrefix | Y | String | File name prefix for the generated report |
| IMPEXFolderPath | Y | String | Folder path relative to IMPEX where the report should be generated |

# Configurations

## Site Preferences

“Pennies” site preference group has been created for this cartridge

|  |  |
| --- | --- |
| **Name** | **Purpose** |
| Pennies Donation Integration Enabled | Indicates if the pennies integration has been enabled on the site.  The client can switch off/on the pennies integration feature. |
| Pennies Access Token | Access token provided by Pennies |
| Pennies Merchant ID | Merchant ID Provided by Pennies |

# Cartridge Extensions

## ISML Changes

Search this snippet

<iscomment>Start Pennies donation Changes</iscomment>

<iscomment>End Pennies donation Changes</iscomment>

in the following files and integrate it into your ISML

* templates/default/common/htmlHead.isml
* templates/default/common/scripts.isml
* templates/default/cart/cart.isml
* templates/default/cart/cartTotals.isml
* templates/default/checkout/checkout.isml
* templates/default/checkout/orderTotalSummary.isml
* templates/default/checkout/confirmation/confirmationOrderTotal.isml

# Usage

## Frontend Elements

The cartridge adds a display banner to the checkout page allowing the user to click the donate button to add the donation amount to the line totals.

The user will also receive the donation amount and soundbite at the bottom of the email

A white background with black text

Description automatically generated

## Reports

Reports can be generated via the three jobs in Administration > Operations > Jobs. The “Generate Donation Report” generates a transaction report in a timestamped CSV file in the following format (example PenniesDonationReport\_11-07-2023\_133358.csv) in src/pennies. The CSV lists transactions with the donation amount in pennies.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

The “Post Donation” job exports the pennies donation details to pennies via api calls. This is used to verify and send the donation amounts on completed orders. This should be scheduled to run daily.

The Solicitation report sends the total order count to pennies api and this should be scheduled to run daily.

# Operations, Maintenance

## Failover / Recovery Process

In case the Pennies service is unavailable, the user will not see donate to Pennies option during checkout.

The service availability can be tracked in SFCC using the Service Status.

## Support

In case of problems with the integration, missing features, etc. please contact your Pennies account manager.