

TECHNICAL SPECIFICATIONS

REDIRECTION

yellow rewards program support



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Change History

Date	Version	Modifications
20/03/2019	1.0	Original version
05/04/2021	1.0.1	Section 5: Update of test cases with new card
26/07/2021	1.0.2	Section 5: Revision of test cases
13/09/2021	1.0.3	<ul style="list-style-type: none">▪ New VISA logo▪ Termination of digital Masterpass wallet
16/03/2022	2.0	Service rebranding to epay eCommerce



Contents

1. Introduction	2
2. General Architecture	3
3. Details for the creation of a Test Account	4
4. Transaction Request/Response & Loyalty Parameters	5
5. Test Cases	7
Annex	12



1. Introduction

Piraeus Bank yellow Loyalty Program rewards Bank customers who enroll, become yellow Members, with yellows (points), for the acquisition and use of certain products and services offered by the Bank. Customers can redeem yellows by making purchases at Program Partners. This document describes the technical implementation that must be carried out by businesses, which shall support on-line yellow redemption and earning with the use of Piraeus Bank Cards through **Redirection** & **iFrame** solutions of epay eCommerce service.

The action of redemption/earning of yellows and of any card debit shall be made immediately, at the time of the transaction.



Note:

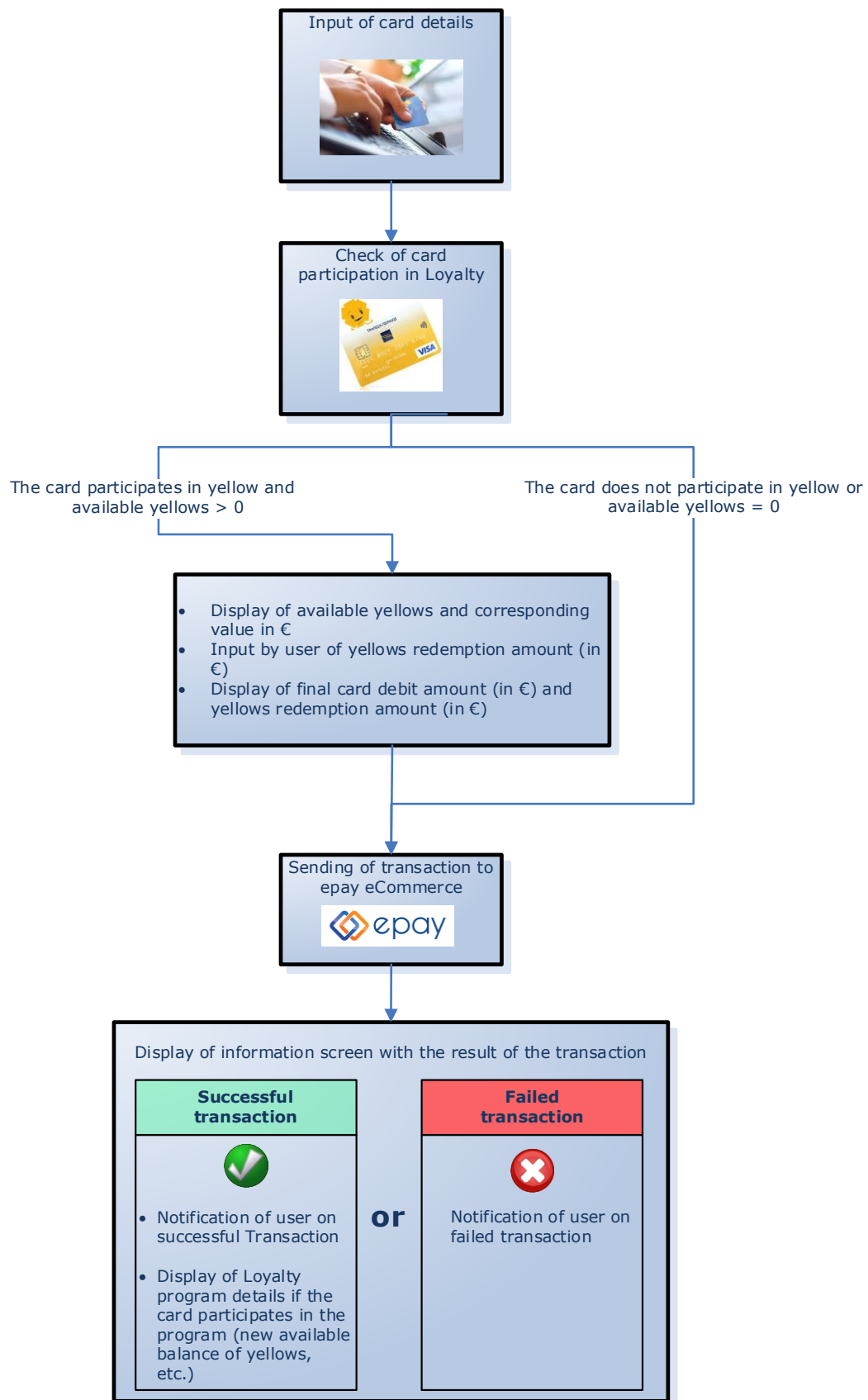
The redemption of yellows does not apply in preauthorization

All steps that must be executed for carrying out transactions with the ability of yellows redemption are described in detail in the following sections:

- **Section 2 → General Architecture:**
Description of the general architecture of the service
- **Section 3 → Details for the creation of a Test Account:**
The details required to be sent to Euronet Merchant Services for the creation of a test account, in order for test transactions to be carried out.
- **Section 4 → Transaction Request/Response & Loyalty Parameters**
Description of additional parameters returned, in case of use of a card participating in the "yellow" program.
- **Section 5 → Test Cases**
Description of test cases that must be performed within the tests of the "yellow" program.



2. General Architecture





3. Details for the creation of a Test Account

The information that must be sent to Euronet Merchant Services, in order for the necessary technical information (*test account*) to be provided for test transactions are the following (they are all compulsory):

- **Details of technical manager:**
 - Full name of technical manager
 - Contact phone number of technical manager
 - Email address of technical manager
 - Company to which the technical manager belongs
- **Details of business to which the site belongs:**
 - Distinctive title of the business to which the site belongs
 - TIN of business to which the site belongs
 - Domain name of the live site of the business
- **Technical details:**
 - **Web site URL**: The URL of the site, from which test transactions shall be performed.
 - **Referrer URL**: The URL of the page, from which the sending of the data for test transactions shall be made.
 - **Success URL**: The URL of the page, to which the response shall be returned, when a successful test transaction is carried out.
 - **Failure URL**: The URL of the page, to which the response shall be returned, when a failed transaction is carried out.
 - **Backlink URL**: The URL, to which the user shall be redirected, when they press the button "Cancellation".
 - **IP address**: IP address of the server, from which requests shall be sent for ticketing mechanism.
 - **Method of response (GET or POST)**: It concerns the method by which the response shall be sent to the success/failure URLs.
 - **Installments availability**: It is declared whether installments shall be used or not in test transactions.



4. Transaction Request/Response & Loyalty Parameters

The procedure of sending transaction details to epay eCommerce and receiving response therefrom is the one described in the technical manuals of Redirection & iFrame services:



<https://paycenter.piraeusbank.gr/redirection/content/Manuals/Redirection.zip>



[https://paycenter.piraeusbank.gr/redirection/content/Manuals/Redirection \(iFrame\).zip](https://paycenter.piraeusbank.gr/redirection/content/Manuals/Redirection (iFrame).zip)

The additional parameters returned in case of receipt of response both by POST and GET method, in case of purchase transaction by using a card which participates in the "yellow" program are the following:

LOYALTY PARAMETERS		
LoyaltyTransactionId	It has value only in a successful transaction. Unique id concerning the system, which manages the yellows of the member.	String
LoyaltyAvailableYellows	It has value only in a successful transaction. In a purchase transaction it contains the total available yellows of the customer after the completion of the transaction.	Integer
LoyaltyRedeemedYellows	It has value only in a successful transaction. In a purchase transaction it contains the number of yellows redeemed.	Integer
LoyaltyEarnedYellows	It has value only in a successful transaction. In a purchase transaction it contains the number of yellows attributed to the customer.	Integer
LoyaltyRedeemedAmount	It has value in a successful transaction. It contains the amount in euros redeemed by the customer.	Decimal
LoyaltyClearCardAmount	It has value only in a successful transaction. It contains the amount in euro, which was debited to the card.	Decimal
LoyaltyPreviousYellows	It has value only in a successful transaction. It contains the number of	Integer

yellows available prior to the transaction.



Note:

Additional Loyalty parameters shall be returned only in case of use of a card participating in the “yellow” program in a purchase transaction. Otherwise, they shall not be returned at all.



5. Test Cases

Test cases that may be carried out in the test environment of epay eCommerce, especially for the “yellow” program, in addition to those set out by Redirection & iFrame services in the corresponding manuals have been recorded below. Test transactions are compulsory for all test cases indicated as “COMPULSORY”.

S/N	TITLE	COMPULSORY
Test case 1	APPROVED TRANSACTION WITH PARTIAL REDEMPTION (VISA)	YES
Test case 2	APPROVED TRANSACTION WITH FULL REDEMPTION (VISA)	YES
Test case 3	APPROVED TRANSACTION - ONLY EARN (VISA)	YES
Test case 4	APPROVED TRANSACTION - UNAVAILABLE LOYALTY MANAGEMENT (VISA)	YES

The following shall apply in all test cases:

- The values of “AcquirerId”, “MerchantId”, “PosId”, “Username”, “Password” parameters used in ticketing Web Service and/or in the form by which the sending of data through POST method is carried out shall be provided by Euronet Merchant Services.
- “RequestType” parameter in ticketing Web Service shall be filled in according to the type of transaction (00 for pre-approval, 02 for purchase).
- “Amount” parameter in ticketing Web Service must contain the Amount value indicated in each test case, as test cases shall be carried out successfully only with the specific amounts.
- The values of “Installments”, “ExpirePreauth” and “CurrencyCode” parameters in ticketing Web Service shall be filled in with the values indicated in test cases.
- “Bnpl” parameter in ticketing Web Service must always be sent as 0 (intended for future use).
- “LanguageCode” parameter in the form may contain any valid value.
- “Parameters” parameter in ticketing Web Service and “ParamBackLink” parameter in the form shall be filled in according to the needs of each application.



Note:

The redemption of yellows in pre-approvals shall not be possible



Test Case 1: APPROVED TRANSACTION WITH PARTIAL REDEMPTION (VISA)

COMPULSORY

Scenario: Successful purchase (without installments) by partial yellows redemption (that is, one part of the transaction amount shall be covered by debiting the card and one part by yellows redemption)



When is it applied:

- When the response is directed to success URL
- or
- When ResultCode=0 and StatusFlag=Success



Input parameters:

Parameter	Value
RequestType (purchase)	02
ExpirePreauth	0
CurrencyCode	978
Installments	0
Amount	292.87



Card details:

Type	VISA
Card number for purchase	4020680000000114
Redemption amount in euro	5
Expiry month	02
Expiry year	Any future year
CVV2	123

On the screen displayed, please enter "Yes" for the transaction to be completed.



Response parameters:

Parameter	Value
ResultCode	0
ResponseCode	00
StatusFlag	Success
LoyaltyAvailableYellows	2919845
LoyaltyPreviousYellows	2919845
LoyaltyRedeemedYellows	2500
LoyaltyEarnedYellows	2878
LoyaltyTransactionId	1-1YYFIAN
LoyaltyRedeemedAmount	5
LoyaltyClearCardAmount	287.87



Operations of the business's application:

- Display of transaction approval message in the user's page
- Storage of values of SupportReferenceID, MerchantReference, StatusFlag, ResponseCode, PackageNo, ApprovalCode, AuthStatus parameters
- Updating of the business's application on the successful transaction



Test Case 2: APPROVED TRANSACTION WITH FULL REDEMPTION (VISA)

COMPULSORY

Scenario: Successful purchase (without installments) by full yellows redemption (that is, the entire amount of the transaction shall be covered by yellows redemption)



When is it applied:

- When the response is directed to success URL
- or
- When ResultCode=0 and StatusFlag=Success



Input parameters:

Parameter	Value
RequestType (purchase)	02
ExpirePreauth	0
CurrencyCode	978
Installments	0
Amount	40.02



Card details:

Type	VISA
Card number for purchase	4020680000000114
Redemption amount in euro	40.02
Expiry month	03
Expiry year	Any future year
CVV2	123

On the screen displayed, please enter "Yes" for the transaction to be completed.



Response parameters:

Parameter	Value
ResultCode	0
ResponseCode	00
StatusFlag	Success
LoyaltyAvailableYellows	2899835
LoyaltyPreviousYellows	2919845
LoyaltyRedeemedYellows	20010
LoyaltyEarnedYellows	0
LoyaltyTransactionId	1-28Y8QAM
LoyaltyRedeemedAmount	40.02
LoyaltyClearCardAmount	0.00



Operations of business's application:

- Display of transaction approval message in the user's page
- Storage of values of SupportReferenceID, MerchantReference, StatusFlag, ResponseCode, PackageNo, ApprovalCode, AuthStatus parameters
- Updating of the business's application on the successful transaction



Test Case 3: APPROVED TRANSACTION - ONLY EARN (VISA)

COMPULSORY

Scenario: Successful purchase (without installments) without yellows redemption (that is, through the transaction a certain number of yellows shall be earned without redemption)



When is it applied:

- When the response is directed to the success URL
- or**
- When ResultCode=0 and StatusFlag=Success



Input parameters:

Parameter	Value
RequestType (purchase)	02
ExpirePreauth	0
CurrencyCode	978
Installments	0
Amount	108.43



Card details:

Type	VISA
Card number for purchase	4020680000000114
Redemption amount in euro	0
Expiry month	04
Expiry year	Any future year
CVV2	123

On the screen displayed, please enter "Yes" for the transaction to be completed.



Response parameters:

Parameter	Value
ResultCode	0
ResponseCode	00
StatusFlag	Success
LoyaltyAvailableYellows	2900919
LoyaltyPreviousYellows	2919845
LoyaltyRedeemedYellows	0
LoyaltyEarnedYellows	1084
LoyaltyTransactionId	1-28YXNCP
LoyaltyRedeemedAmount	0
LoyaltyClearCardAmount	108.43



Operations of business's application:

- Display of transaction approval message in the user's page
- Storage of values of SupportReferenceID, MerchantReference, StatusFlag, ResponseCode, PackageNo, ApprovalCode, AuthStatus parameters
- Updating of the business's application on the successful transaction



Test Case 4: APPROVED TRANSACTION - UNAVAILABLE LOYALTY MANAGEMENT (VISA)

COMPULSORY

Scenario: Successful purchase (without installments), where a problem occurred during the management of yellows (that is, it was sent by yellows redemption, but a problem occurred in the yellows management system, therefore the yellows redemption/attribution shall be carried out at a subsequent time)



When is it applied:

- When the response is directed to success URL
- or
- When ResultCode=0 and StatusFlag=Success



Input parameters:

Parameter	Value
RequestType (purchase)	02
ExpirePreauth	0
CurrencyCode	978
Installments	0
Amount	77.59



Card details:

Type	VISA
Card number for purchase	4020680000000114
Redemption amount in euro	3.28
Expiry month	05
Expiry year	Any future year
CVV2	123

On the screen displayed, please enter "Yes" for the transaction to be completed.



Response parameters:

Parameter	Value
ResultCode	0
ResponseCode	00
StatusFlag	Success
LoyaltyAvailableYellows	-
LoyaltyPreviousYellows	-
LoyaltyRedeemedYellows	-
LoyaltyEarnedYellows	-
LoyaltyTransactionId	-
LoyaltyRedeemedAmount	-
LoyaltyClearCardAmount	-






Operations of business's application:

- Display of transaction approval message in the user's page
- Storage of values of SupportReferenceID, MerchantReference, StatusFlag, ResponseCode, PackageNo, ApprovalCode, AuthStatus parameters
- Updating of business's application on the successful transaction



Images from the page to which the card details are inserted and result page:




TEST MERCHANT


(It will appear as a transaction description in your monthly credit card statement)


TRANSACTION AMOUNT €292,87

PAYMENT INFORMATION

CARD NUMBER *

 You have **2.919.845 available yellows** that equal to **€5839,69**.

 How many euros do you want to redeem? €

 Your card will be charged with the amount of **€287,87** and you will redeem **€5,00** in yellows.

EXPIRATION DATE *

SECURITY CODE * ?
(CVV2/CVC2)




EMAIL ?

* Required fields

Pay

[Go back without completing the payment](#)

Supported Cards:









Image 1: Card details input page

Your transaction was successfully completed.



TRANSACTION DETAILS

TRANSACTION NO.:	216778753
APPROVAL CODE:	272004
SUPPORT REFERENCE ID:	415388450
TOTAL TRANSACTION AMOUNT:	€292,87
REDEMPTION AMOUNT (€):	€5,00
CARD TRANSACTION AMOUNT (€):	€287,87
yellow - PREVIOUS BALANCE:	2.919.845
yellow - REDEMPTION:	2.500
yellow - EARN:	2.878
yellow - NEW BALANCE:	2.919.845

Within 7 seconds you will be directed back to the site "http://2787pctwcf1:8443". Please don't close the browser window until the redirection is completed.

[Go back to the merchant's site](#)

None of your card details will be transmitted to the merchant site.

In case a warning security message appears, click 'continue' or 'yes' to complete the transaction.



Image 2: Result page