



API Merchant Operation Manual

Version 1.0



Revision History

Date	Version	Description	Author
2015-17-06	0.1.0	API_Merchant Operational Manual creation.	Gregory Hanis



Contents

1. Backgrounds	3
1.1 Recommendations for use	3
1.2 Form Laws	3
2.0 API Functionality and Use Practice	3
2.1 Required Fields	3
2.2 Optional Fields	4
2.3 Result Handling	5
3.0 API installation and Deployment	5
3.1 Unique Items Assigned to Merchant	6
3.2 Universal Items	6



1. Backgrounds

API is accessed on the client side of EPS authorized merchants. It integrates with merchants' online system to provide secure online payment method between customers, merchants and banks. Its main functions can be described as follows:

- Bankcard online payments of merchants' transaction
- Merchants' refund operation to successful transaction
- Merchants' enquiry operation to existing payment transaction

1.1 Recommendations for use

The main purpose of this manual is to help EPS's merchant members to use the API EPS supplied. It mainly includes three parts:

Part 1: API's functionality and use practice;

Part 2: The process of all versions of API's installation and deployment;

Part 3: Appendix. Show common error codes during the process of program and a few notes on integrating API.

1.2 Form Laws

In order to host the form that a user can input their credit card information has to meet the requirements of section 1.2.1 PCI Compliance Laws. If your host cannot meet these requirements please use EPS Hosted Form See Section <coming soon>

1.2.1 PCI Compliance Laws

- Must Use SSL (HTTPS) with a valid Certificate created with At least 128-bit encryption
- USE TLS not SSLv3
- Verify that no cardholder data is required when HTTPS does not appear in the URL.
- Disable any other version of SSL
- Do Not record or store any cardholder data

2.0 API Functionality and Use Practice

Use POST to send data to the API URL. Response from the API will be in JSON.

Included in response will always have a TID (Transaction Identification Number) and a success or failed message. The failed message will include a reason. The merchant system should record the TID for tracking purposes and to request refunds.

2.1 Required Fields

These fields are required and must be sent in order to be a valid API request



2.1.1 Sale Authorization

Input Name	Description	Type	Amount
first_name	First Name of Purchaser	VarChar	255
last_name	Last Name of Purchaser	VarChar	255
email	Email of Purchaser	VarChar	255
cc_number	Credit Card Number	INT	16
cc_exp_yy	Credit Card Exp Year YY	INT	2
cc_exp_mm	Credit Card Exp Month MM	INT	2
cavv	Credit Card CVV numback	INT	5
ponumber	Open Field For Merchant	VarChar	255
env	Environment	VarChar	8
TransactionType	Type of Transaction	VarChar	2
apikey	Merchant API Key	VarChar	255
currency	Type of Currency	VarChar	3
tax	Tax Amount POST 0.00 if n/a	NUM	11
amount	Amount To charge Card IE: 1.99	NUM	11
BuyerIP	IP address of Purchaser	NUM	48
BuyerID	Merchant ID of Purchaser	VarChar	255
acquireType	1 is automatic capture 2 is manual	INT	1

2.1.2 Refund

Input Name	Description	Type	Amount
TID	Sale Transaction ID	VarChar	255
env	Environment	VarChar	8
PartialCancelCode	0=Full 1=Partial Refund	INT	1
TransactionType	Type of Transaction	VarChar	2
apikey	Merchant API Key	VarChar	255
currency	Type of Currency	VarChar	3
tax	Tax Amount POST 0.00 if n/a	NUM	11
amount	Amount To charge Card IE: 1.99	NUM	11



2.2 Optional Fields

These fields are optional and are not required to be sent.

2.2.1 Sale Authorization

Input Name	Description	Type	Amount
address1	Address of Purchaser	VarChar	255
address2	Address 2 of Purchaser	VarChar	255
city	City of Purchaser	VarChar	255
us_state	State of Purchaser	VarChar	2
postal_code	Zip of Purchaser	VarChar	8
country	County of Purchaser	VarChar	2
phone	Phone of Purchaser	INT	20
shipping_first_name	Shipping First Name	VarChar	255
shipping_last_name	Shipping Last Name	VarChar	255
shipping_address1	Shipping Address	VarChar	255
shipping_address2	Shipping Address 2	VarChar	255
shipping_city	Shipping City	VarChar	255
shipping_us_state	Shipping State	VarChar	2
shipping_postal_code	Shipping Zip	VarChar	8
shipping_country	Shipping Country	VarChar	2
shipping_email	Shipping Email Address	VarChar	255

2.2.1 Refund

<coming soon>

2.3 Result Handling

3.0 API installation and Deployment

URL: <https://github.com/gregtampa/earthpayments> has sample html forms



3.1 Unique Items Assigned to Merchant

Items that can be found on the merchants' gateway dashboard:

- URL OF API FOR MERCHANT: <URL OF API FOR MERCHANT>
- API KEY: <Merchant API KEY>

3.2 Universal Items

These are needed for a Test Transaction to work

- Credit Card: 4907639999990022
- Exp. Year: 2015
- Exp Month: December / 12
- CVV: 029