

BE PAYMENT READY

Batch Upload Merchant Integration Guide

.xml

Canada only

Version 1.2.4 - October 2024

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Changes in v1.2.4

- Changed Moneris host addresses for testing and production in Configuring your SFTP Client topic
- Added Response Codes reference topic

Changes in v1.2.3

• added the request field **shipping indicator** to the Pre-Authorization Completion transaction (XML integrations only)

Getting Help

Moneris has help for you at every stage of the integration process.

Getting Started	During Development	Production
Contact our Client Integration Specialists: clientintegrations@moneris.com Hours: Monday – Friday, 8:30am to 8 pm ET	If you are already working with an integration specialist and need technical development assistance, contact our eProducts Technical Consultants: 1-866-319-7450 eproducts@moneris.com Hours: 8am to 8pm ET	If your application is already live and you need production support, contact Moneris Customer Service: onlinepayments@moneris.com 1-866-319-7450 Available 24/7

For additional support resources, you can also make use of our community forums at http://community.moneris.com/product-forums/

System and Skills Requirements

Before you start you will need to:

- Have SFTP client software which must use SSH2
- Create the Batch File which must have the .xml extension

Additional requirements for Level 2/3 transactions:

• Batch files containing Level 2/3 transactions must use the .l23.xml extension

1 Introduction to Batch Upload

- 1.1 Implementing Your Batch Upload Solution
- 2 Transaction Types and Transaction Process Flows

Moneris Gateway allows merchants the option of using a batch file to upload large groups of transactions for processing. Merchants may forward multiple transaction types, for multiple card plans, in a single batch for processing, provided that the merchant is registered for the card plans included in the file.

The .xml Batch File option refers to the ability to upload batch files where the fields are presented in an XML format.

NOTE: In no circumstances should CVD information be stored, and therefore should not be used with Batch Upload; if you need to process transactions using CVD information, use another solution such as the Moneris Gateway API or Moneris Hosted Solutions.

1.1 Implementing Your Batch Upload Solution

There are three main steps to batch file uploading via the Moneris Gateway:

- Creating a batch transaction file for uploading in the .xml format. Transactions in batch files
 have specific structures that need to be conformed to. To learn more about this, see section 3
 Sending Transactions and Receiving Responses.
- Configuring your SFTP client and connecting to Moneris Gateway. Normally, configuration is only necessary to do once. To learn more about this,4.1 Configuring SFTP Client: What Do I Need to Do First?
- 3. Uploading your batch transaction file and retrieving the response using your SFTP client. To learn more about this, see 1 Uploading a Batch File and Receiving a Response.

These primary steps are nearly identical across the testing and production phases.

To learn more about testing, see 6 Testing Your Batch Upload Solution

To learn more about production, see 7 Moving to Production

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2 Transaction Types and Transaction Process Flows

- 2.1 Basic Transactions
- 2.2 Mag Swipe Transactions
- 2.3 Vault Transactions
- 2.4 Level 2/3 Transactions

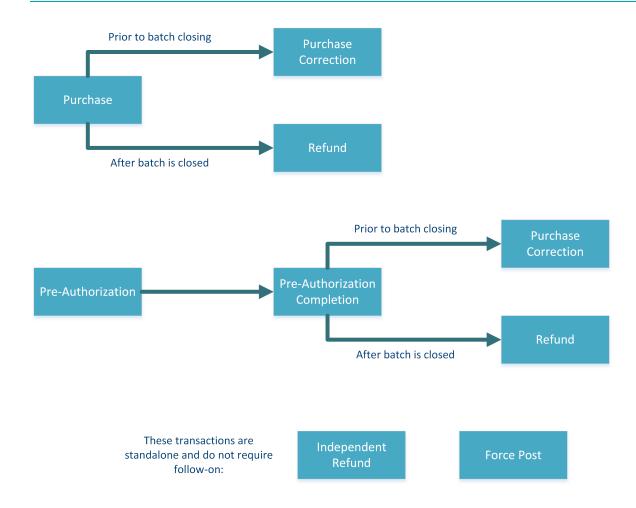
Moneris Gateway supports a wide variety of transactions using the batch file upload method. Following are a list and brief descriptions of the transaction types supported.

2.1 Basic Transactions

- 2.1.1 Basic Transactions Process Flow
- 2.1.2 Purchase
- 2.1.3 Pre-Authorization
- 2.1.4 Pre-Authorization Completion
- 2.1.5 Force Post
- 2.1.6 Purchase Correction
- 2.1.7 Refund
- 2.1.8 Independent Refund

2.1.1 Basic Transactions Process Flow

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2.1.2 Purchase

A Purchase verifies funds on the customer's card, removes the funds and prepares them for deposit into the merchant's account.

Optional Features

Customer ID
Customer Information – See 2.7 Customer Information
Recurring Billing – See below

XML Parent Tag

<pur><purchase>

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transaction request fields – Required Purchase

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
	EXAMPLE: 123456.78	NOTE: For Purchase or Purchase with Vault requests that include Recurring Billing, the value of this field is the amount to bill immediately.
Credit card number pan	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring

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Variable Name	Type and Limits	Description
		3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant
Credential on File Info	Object n/a	Required for transactions using stored cardholder credentials This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.

transaction request fields - Optional Purchase

Table 1 Optional Request Fields - Purchase transaction

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center
Customer Information cust_info	<i>Object</i> n/a	This is a nested object within the transaction. See the Customer Information Request Fields table below for definitions of the Customer Informationspecific fields.
Recurring Billing	Object n/a	Recurring Billing allows you to set up payments whereby Moneris automatically processes the transactions and bills customers on your behalf

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Variable Name	Type and Limits	Description
		based on the billing cycle information you provide.
		This is a nested object within the transaction. See the Recurring Billing Transactions Request Fields table below for definitions of the Recurring Billing-specific fields.

Recurring Billing Transactions Request Fields

These are required only as part of Recurring Billing transaction requests.

XML Parent Tag

<recur>

Recurring Billing fields below are children of the <recur> tag

Variable Name	Type and Limits	Description
recur_unit	String day, week, month, eom	The unit that you wish to use as a basis for the Interval. This can be set as day, week or month. Then using the "period" field you can configure how many days, weeks, months between billing cycles.
period	String 0 – 999 characters, numeric	This is the number of recur_ units you wish to pass between billing cycles.
		Example :
		<pre>period = 3, recur_unit=month - > Card will be billed every 3 months.</pre>
		period = 4, recur_unit=weeks -> Card will be billed every 4 weeks.
		period = 45, recur_unit=day -> Card will be billed every 45 days.
		Please note that the total duration of the recurring billing

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Variable Name	Type and Limits	Description
		transaction should not exceed 5-10 years in the future.
start_date	String YYYY/MM/DD	This is the date on which the first charge will be billed. The value must be in the future. It cannot be the day on which the transaction is being sent. If the transaction is to be billed immediately the start_now feature must be set to true and the start_date should be set at the desired interval after today.
start_now	String true / false	When a charge is to be made against the card immediately start_now should be set to 'true'. If the billing is to start in the future then this value is to be set to 'false'. When start_now is set to 'true' the amount to be billed immediately may differ from the recur amount billed on a regular basis thereafter.
recur_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of the recurring transaction. This must contain 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99. This is the amount that will be billed on the start_date and every interval thereafter.
num_recurs	String 1 – 99 characters, numeric	The number of times to recur the transaction.

Customer Information Request Fields

For information about the Customer Information object fields, see 2.7.2 Customer Information (cust_info) Fields.

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Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent transactions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

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2.1.3 Pre-Authorization

Verifies and locks funds on the customer's credit card. The funds are locked for a specified amount of time based on the card issuer.

To retrieve the funds that have been locked by a Pre-Authorization transaction so that they may be settled in the merchant's account, a Pre-Authorization Completion transaction must be performed.

Optional Features

Customer Information – See 2.7 Customer Information

XML Parent Tag

<preauth>

transaction request fields - Required Pre-Authorization

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Credit card number	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This

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Variable Name	Type and Limits	Description
		field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date expdate	String 4-character numeric	Expiry date with no spaces or slashes. NOTE: This is reversed from the date
	YYMM format	format displayed on the physical card, MMYY.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant
Credential on File Info	<i>Object</i> n/a	Required for transactions using stored cardholder credentials
		This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.

transaction request fields – Optional Pre-Authorization

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number.

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Variable Name	Type and Limits	Description
		Can be searched from the Moneris Merchant Resource Center
Customer Information cust_info	<i>Object</i> n/a	This is a nested object within the transaction. See the Customer Information Request Fields table below for definitions of the Customer Informationspecific fields.

Customer Information Request Fields

For information about the Customer Information object fields, see 2.7.2 Customer Information (cust_info) Fields.

Credential on File Request Fields

XML Parent Tag

<cof info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent trans-

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Variable Name	Type and Limits	Description
		actions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

2.1.4 Pre-Authorization Completion

Retrieves funds that have been locked by a Pre-Authorization transaction, and prepares them for settlement into the merchant's account.

XML Parent Tag

<completion>

transaction request fields – Required Pre-Authorization Completion

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Completion Amount comp_amount	String 9-character decimal. Up to 6-character numeric + 2- character numeric after the	Amount of the transaction. This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum

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Variable Name	Type and Limits	Description
	decimal point EXAMPLE: 123456.78	999999.99
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction. When performing a Pre-Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must reference the Pre-Authorization or the Purchase.
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant

transaction request fields – Optional Pre-Authorization Completion

Variable Name	Type and Limits	Description
shipping indicator ship_indicator	String 1-character alphanumeric	Used to identify completion transactions that require multiple shipments, also referred to as multiple completions By default, if shipping indicator is not sent, the Pre-Authorization Com-

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Variable Name	Type and Limits	Description
		pletion is listed as final
		To indicate that the Pre-Authorization Completion is to be left open by the issuer as supplemental shipments or completions are pending, submit ship- ping indicator with a value of P
		Possible values:
		P – Partial
		F – Final

2.1.5 Force Post

Retrieves the locked funds and prepares them for settlement into the merchant's account.

This is used when a merchant obtains the authorization number directly from the issuer by a third-party authorization method (such as by phone).

NOTE: This transaction is not supported for UnionPay

XML Parent Tag

<forcepost>

transaction request fields – Required Force Post

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No

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Variable Name	Type and Limits	Description
		two transactions of these types may have the same order ID.
		For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the ori- ginal transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Credit card number	String 20-character numeric	Credit Card Number with no spaces or dashes.
pun	20-Character numeric	Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
Authorization code auth_code	String 8-character alphanumeric	Authorization code provided in the transaction response from the issuing bank
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment

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Variable Name	Type and Limits	Description
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant

transaction request fields - Optional Force Post

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center

2.1.6 Purchase Correction

Restores the full amount of a previous Purchase, Force Post or Pre-Authorization Completion transaction to the cardholder's card, and removes any record of it from the cardholder's statement.

If the batch has already closed, use a Refund instead.

XML Parent Tag

<pur><purchasecorrection>

transaction request fields - Required Purchase Correction

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase

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Variable Name	Type and Limits	Description
		Correction transactions, the order ID must be the same as that of the original transaction.
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction. When performing a Pre-Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must reference the Pre-Authorization or the Purchase.
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant

2.1.7 Refund

Restores all or part of the funds from a Purchase, Pre-Authorization Completion or Force Post transaction to the cardholder's card. If the transaction is still in an open batch please refer to Purchase Correction. Unlike a Purchase Correction, after a Refund there is a record of both the initial charge and the refund on the cardholder's statement.

Values for the credit card number and expiry date are mandatory.

XML Parent Tag

<refund>

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transaction request fields – Required Refund

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction. When performing a Pre-Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must reference the Pre-Authorization or the Purchase.
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification

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Variable Name	Type and Limits	Description
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant

2.1.8 Independent Refund

Credits a specified amount to the cardholder's credit card.

It is not necessary for the transaction that you are refunding to have been processed via the Moneris Gateway.

XML Parent Tag

 $<\!\!\text{ind_refund}\!\!>$

transaction request fields - Required Independent Refund

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Credit card number	String	Credit Card Number with no spaces or dashes.

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Variable Name	Type and Limits	Description
pan	20-character numeric	Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant

transaction request fields - Optional Independent Refund

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center

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2.2 Mag Swipe Transactions

Mag Swipe Purchase

The Mag Swipe Purchase transaction requires a credit card to be swiped to collect the track2 data. It then verifies funds on the customer's card, removes the funds and readies them for deposit into the merchant's account.

Mag Swipe Pre-Authorization

The Mag Swipe Pre-Authorization requires a credit card to be swiped to collect the track2 data. It then verifies and locks funds on the customer's credit card. The funds are locked for a specified amount of time, based on the card issuer. To retrieve the funds from a Mag Swipe Pre-Authorization so that they may be settled in the merchant's account a Mag Swipe Completion must be performed.

Mag Swipe Completion

Once a Mag Swipe Pre-Authorization is obtained the funds that are locked need to be retrieved from the customer's credit card. The Mag Swipe Completion retrieves the locked funds and readies them for settlement into the merchant's account.

Mag Swipe Purchase Correction

Mag Swipe Purchase and Mag Swipe Completion transactions can be voided the same day that they occur. A Mag Swipe Purchase Correction must be for the full amount of the transaction and will remove any record of it from the cardholder's statement.

NOTE: A Purchase Correction can be performed against a transaction as long as the batch that contains the original transaction remains open.

Mag Swipe Refund

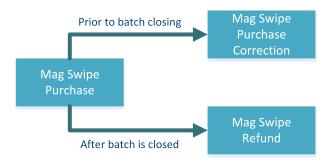
can be performed against a Mag Swipe Purchase or a Mag Swipe Completion to refund any part, or all of the transaction.

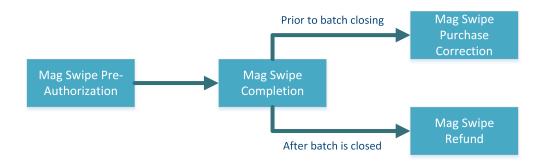
Mag Swipe Independent Refund

requires a credit card to be swiped to collect the track2 data. It can be performed to credit money to this particular credit card. This transaction does not require a prior Mag Swipe Purchase or Mag Swipe Completion.

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2.2.1 Mag Swipe Transactions Process Flow





These transactions are standalone and do not require follow-on:

Mag Swipe Independent

2.2.2 Sending Mag Swipe Transactions

Mag Swipe transactions allow the merchant to submit track2 details that have been collected by swiping a credit card through a card reader.

These transactions support the submission of 'track2', as well as a manual entry of the credit card number and expiry date using the 'pan' and 'expdate' variables. If all three fields are submitted, the track2 details will be used to process the transaction.

Table 1 Required Fields – Mag Swipe Transactions

Transaction Type	Fields
Mag Swipe Purchase (track2_purchase)	track2_purchase, order_id, cust_id, amount,

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Transaction Type	Fields
	track2, pan, expdate, pos_code
Mag Swipe Pre-Authorization (track2_preauth)	track2_preauth, order_id, cust_id, pan, expdate, pos_code
Mag Swipe Capture (track2_completion)	track2_completion, order_id(from track2_ preauth), comp_amount, txn_number (from track2_preauth)
Mag Swipe Void (track2_purchasecorrection)	track2_purchasecorrection, order_id(from original transaction), txn_number (from track2_purchase or track2_completion)
Mag Swipe Refund (track2_refund)	track2_refund,order_id (from original trans- action), amount, txn_number (from track2_pur- chase or track2_completion)
Mag Swipe Independent Refund (track2_ind_refund)	track2_ind_refund, order_id, cust_id, amount, track2, pan, expdate, pos_code

2.2.2.1 Example – Batch Including Mag Swipe Transactions

The following sample code illustrates a batch file containing Mag Swipe and other transaction requests. A corresponding example for the transaction response follows.

NOTE: In a Mag Swipe/track2 transaction, you must still include all of the required tags such as the 'pan' or 'expdate' fields.

```
<?xml version="1.0"?>
 <request>
 <store id>store1</store id>
 <api token>yesguy</api token>
 <purchase>
 <order id>test xml 00001</order id>
 <cust id>Customer Name</cust id>
 <amount>10.00</amount>
 <pan>5454545454545454</pan>
 <expdate>0605</expdate>
 <crypt type>1</crypt type>
 <cof info>
 <payment indicator>U</payment_indicator>
 <payment information>2</payment information>
 <issuer id>123456789012345</issuer id>
 </cof info>
 </purchase>
 <purchase>
 <order id>test xml 00002</order id>
 <amount>1.04</amount>
 <pan>42424242424242</pan>
 <expdate>0806</expdate>
<crypt_type>1</crypt_type>
```

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```
<cof info>
 <payment indicator>U</payment indicator>
  <payment_information>2</payment information>
  <issuer id>123456789012345</issuer id>
  </cof info>
 </purchase>
  <track2 purchase>
  <order id>track2 testing purch 1</order id>
  <cust_id>my cust id</cust_id>
  <amount>1.00</amount>
  <track2>;5258984987184986=06061016091001060602?
  <pan></pan>
  <expdate></expdate>
  <pos code>00</pos code>
  </track2_purchase>
 <track2 preauth>
  <order id>track2 testing preauth 1</order id>
  <cust id>my cust id</cust id>
  <amount>25.00</amount>
  <track2>;5258984987184986=06061016091001060602?
 <pan></pan>
 <expdate></expdate>
 <pos code>00</pos code>
 </track2 preauth>
 </request>
```

Corresponding Example Response for Mag Swipe Transaction

```
<?xml version="1.0"?>
<response>
<receipt>
<ReceiptId>test xml 00001/ReceiptId>
<ReferenceNum>660021730013780180</ReferenceNum>
<ResponseCode>027</ResponseCode>
<ISO>01</ISO>
<AuthCode>009213</AuthCode>
<TransTime>16:04:33</TransTime>
<TransDate>2006-06-20</TransDate>
<TransType>00</TransType>
<Complete>true</Complete>
<Message>APPROVED * =</Message>
<TransAmount>10.00</TransAmount>
<CardType>M</CardType>
<TransID>84112-18-0</TransID>
<TimedOut>false</TimedOut>
<BankTotals>null/BankTotals>
<Ticket>null</Ticket>
<IssuerId>123456789012345/IssuerId>
</receipt>
<ReceiptId>test xml 00002/ReceiptId>
<ReferenceNum>660021630014070190</ReferenceNum>
<ResponseCode>075</ResponseCode>
<ISO>14</ISO>
<AuthCode>00000</AuthCode>
<TransTime>16:04:35</TransTime>
<TransDate>2006-06-20</TransDate>
<TransType>00</TransType>
<Complete>true</Complete>
<Message>DECLINED * CARD PROBLEM =CARD PROBLEM
<TransAmount>1.04</TransAmount>
<CardType>00</CardType>
<TransID>156091-19-0</TransID>
<TimedOut>false</TimedOut>
```

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```
<BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 <IssuerId>123456789012345/IssuerId>
 </receipt>
 <receipt>
 <ReceiptId>track2 testing purch 1/ReceiptId>
 <ReferenceNum>660021810013842370/ReferenceNum>
 <ResponseCode>027</ResponseCode>
 <ISO>01</ISO>
 <AuthCode>007427</AuthCode>
 <TransTime>15:00:36</TransTime>
 <TransDate>2006-11-24</TransDate>
 <TransType>00</TransType>
 <Complete>true</Complete>
 <Message>APPROVED * =</Message>
 <TransAmount>1.00</TransAmount>
 <CardType>M</CardType>
  <TransID>97572-237-0</TransID>
 <TimedOut>false</TimedOut>
  <BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 </receipt>
 <ReceiptId>track2 testing preauth 1/ReceiptId>
 <ReferenceNum>660021810013842380/ReferenceNum>
 <ResponseCode>027</ResponseCode>
 <ISO>01</ISO>
 <AuthCode>009429</AuthCode>
  <TransTime>15:00:36</TransTime>
  <TransDate>2006-11-24</TransDate>
 <TransType>01</TransType>
 <Complete>true</Complete>
 <Message>APPROVED * =</Message>
 <TransAmount>25.00</TransAmount>
 <CardType>M</CardType>
 <TransID>97573-238-0</TransID>
 <TimedOut>false</TimedOut>
 <BankTotals>null/BankTotals>
 <Ticket>null</Ticket>
 </receipt>
 </response>
```

2.3 Vault Transactions

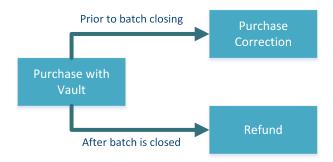
- 2.3.1 Vault Transactions Process Flow
- 2.3.2 Vault Administrative Transactions
- 2.3.3 Vault Financial Transactions

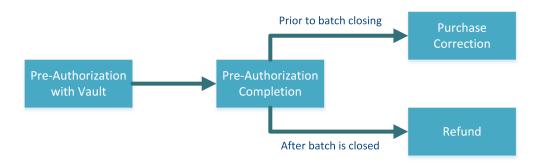
The Vault feature allows merchants to create customer profiles, edit those profiles, and use them to process transactions without having to enter financial information each time. Customer profiles store customer data essential to processing transactions, including credit and signature debit details.

The Vault is a complement to the recurring payment module. It securely stores customer account information on Moneris Solutions' secure servers. This allows merchants to bill customers for routine products or services when an invoice is due.

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2.3.1 Vault Transactions Process Flow







These transactions are standalone and do not require follow-on:

Vault Independent Refund

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2.3.2 Vault Administrative Transactions

- 2.3.2.1 About Vault Administrative Transactions
- 2.3.2.2 Vault Add Credit Card
- 2.3.2.3 Vault Update Credit Card
- 2.3.2.4 Vault Delete

2.3.2.1 About Vault Administrative Transactions

Vault Administrative transactions allow the user to perform such tasks as creating new Vault profiles and deleting existing profiles.

2.3.2.2 Vault Add Credit Card

Creates a new credit card profile, and generates a unique data key which can be obtained from the Receipt object. This data key is the profile identifier that all future financial Vault transactions will use to associate with the saved information.

XML Parent Tag

<res_add_cc>

Vault Add Credit Card transaction request fields - Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Credit card number pan	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.

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Variable Name	Type and Limits	Description
Expiry Date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant
Credential on File Info	Object	Required for transactions using stored cardholder credentials
		This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction

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Variable Name	Type and Limits	Description
required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).		If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.

Vault Add Credit Card transaction request fields - Optional

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center
Phone Number phone	String 30-character alphanumeric	Phone number of the customer
Note note	String 30-character alphanumeric	Used for supplementary information
Email address	String 30-character alphanumeric	Email address of the customer

2.3.2.3 Vault Update Credit Card

Updates an existing Vault profile (referencing the profile's unique data key) with cardholder information.

Information contained within a credit card profile is updated as indicated by the submitted fields; if any field representing an item of cardholder information is not sent in this request, that item will remain unchanged in the profile.

If the Vault profile is being updated with a new credit card number, then you first need to send a Purchase, Pre-Authorization or Card Verification transaction, with the Credential on File Info object

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included, before performing Vault Update Credit Card. If the credit card number is not one of the profile items being updated, this step is not required.

Things to Consider:

- To update a specific element in the profile, set that element using the corresponding set method
- When updating a credit card number, first send a Purchase, Pre-Authorization, or Card Verification with the Credential on File Info object before sending this transaction; send the issuer ID received in the response in the subsequent Vault Update Credit Card request
- If the credit card number is not one of the profile items being updated, the Credential on File info object is not required

NOTE: The Credential on File information object is required for this transaction *only* when updating the credit card number; for all other situations, do not include the Credential on File info object or its indicator fields in the request.

XML Parent Tag

<res update cc>

Vault Update Credit Card transaction request fields – Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Data key data_key	String 25-character alphanumeric	The data key is the token that points to a previously stored profile; a profile identifier that all future financial Vault transactions (i.e., they occur after the profile was registered by a Vault Add Credit Card or Vault Tokenize Credit Card transaction) will use to associate

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Variable Name	Type and Limits	Description
		with the saved information
		The data key is generated by Moneris, and is returned to the merchant (via the Receipt object) when the profile is first registered

Vault Update Credit Card transaction request fields - Optional

Variable Name	Type and Limits	Description
Credential on File Info cof_info NOTE: The Credential on File Info object is required when updating a credit card number; in all other cases, do not send it	Object n/a	Required for transactions using stored cardholder credentials Must be included if the credit card number (pan) is sent This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.
Credit card number pan	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date expdate	String 4-character numeric YYMM format	Expiry date with no spaces or slashes. NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment

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Variable Name	Type and Limits	Description
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes
cust_iu	50-character aiphanument	EXAMPLE: policy number, membership number, student ID, invoice number.
		Can be searched from the Moneris Merchant Resource Center
Phone Number	String	Phone number of the customer
phone	30-character alphanumeric	
Note	String	Used for supplementary information
note	30-character alphanumeric	
Email address email	String 30-character alphanumeric	Email address of the customer

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction

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Variable Name	Type and Limits	Description
required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).		If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.

2.3.2.4 Vault Delete

Deletes an existing Vault profile of any type using the unique data key that was assigned when the profile was added

NOTE: After a profile is deleted, the information that was contained in it can no longer be retrieved.

XML Parent Tag

<res_delete>

Vault Delete transaction request fields – Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Data key data_key	String 25-character alphanumeric	The data key is the token that points to a previously stored profile; a profile identifier that all future financial Vault transactions (i.e., they occur after the profile was registered by a Vault Add

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Variable Name	Type and Limits	Description
		Credit Card or Vault Tokenize Credit Card transaction) will use to associate with the saved information
		The data key is generated by Moneris, and is returned to the merchant (via the Receipt object) when the profile is first registered

2.3.2.5 Example - Batch With Vault Admin Transactions

```
<?xml version="1.0"?>
<request>
<store_id>store3</store_id>
<api_token>yesguy</api_token>
<res add cc>
<order_id>Moneris_test_Dec20_1</order_id>
<pan>4242424242424242</pan>
<expdate>1212</expdate>
<crypt_type>7</crypt_type>
<cof info>
<issuer id>123456789012345</issuer id>
</cof info>
</res add cc>
<res add cc>
<order id>Moneris test Dec20 2</order id>
<pan>5454545454545454</pan>
<expdate>1201</expdate>
<crypt type>7</crypt type>
<cof info>
</cof info>
<cust_id>My_Customer_Name</cust_id>
<phone>555-800-1122</phone>
<email>my_email@mail.com</email>
<note>I have no note at this time</note>
</res_add_cc>
<res update cc>
<order id>Moneris test Dec20 3</order id>
<data key>XKwBrc6n8sHIJftK1mNf0TFb3</data key>
<expdate>1212</expdate>
</res update cc>
<res update cc>
<order id>Moneris test Dec20 4</order id>
<data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
<pan>5454545454545454</pan>
<expdate>1201</expdate>
<crypt type>7</crypt type>
<cof info>
<issuer_id>123456789012345</issuer_id>
</cof info>
<cust id>My Customer Name</cust id>
<phone>555-800-1122</phone>
<email>my_email@mail.com</email>
<note>I have no note at this time</note>
</res update cc>
<res delete>
<order id>Moneris test Dec20 5</order id>
<data_key>RbFbmySFugYNRSmTaN6Gkm08r</data_key>
```

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```
</res_delete>
</request>
```

Corresponding Example Response -for Vault Admin Transaction

```
<?xml version="1.0"?>
<response>
<receipt>
<DataKey>wjxVIIFcJAqKhBZ3URASTO8MO</DataKey>
<ReceiptId>Moneris test Dec20 1</ReceiptId>
<ReferenceNum>null</ReferenceNum>
<ResponseCode>001</ResponseCode>
<ISO>null</ISO>
<AuthCode>null</AuthCode>
<Message>Successfully registered CC details.
<TransTime>14:02:19</TransTime>
<TransDate>2010-12-21</TransDate>
<TransType>null</TransType>
<Complete>true</Complete>
<TransAmount>null</TransAmount>
<CardType>null</CardType>
<TransID>null</TransID>
<TimedOut>false</TimedOut>
<CorporateCard>null</CorporateCard>
<RecurSuccess>null</RecurSuccess>
<AvsResultCode>null</AvsResultCode>
<CvdResultCode>null</CvdResultCode>
<ResSuccess>true</ResSuccess>
<PaymentType>cc</PaymentType>
<ResolveData>
<cust id></cust id>
<phone></phone>
<email></email>
<note></note>
<crypt_type>7</crypt_type>
<masked pan>4242***4242</masked pan>
<expdate>1212</expdate>
</ResolveData>
<issuer id>123456789012345</issuer id>
</receipt>
<receipt>
<DataKey>NrFoDGGF6QqtDGVKiVm6etwp3/DataKey>
<ReceiptId>Moneris test Dec20 2</ReceiptId>
<ReferenceNum>null</ReferenceNum>
<ResponseCode>001</ResponseCode>
<ISO>null</ISO>
<AuthCode>null</AuthCode>
<Message>Successfully registered CC details.
<TransTime>14:02:29</TransTime>
<TransDate>2010-12-21</TransDate>
<TransType>null</TransType>
<Complete>true</Complete>
<TransAmount>null</TransAmount>
<CardType>null</CardType>
<TransID>null</TransID>
<TimedOut>false</TimedOut>
<CorporateCard>null</CorporateCard>
<RecurSuccess>null</RecurSuccess>
<AvsResultCode>null</AvsResultCode>
<CvdResultCode>null</CvdResultCode>
<ResSuccess>true</ResSuccess>
<PaymentType>cc</PaymentType>
<ResolveData>
<cust id>My Customer Name</cust id>
```

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```
<phone>555-800-1122</phone>
<email>my email@mail.com</email>
<note>I have no note at this time</note>
<crypt type>7</crypt type>
<masked pan>5454***5454</masked pan>
<expdate>1201</expdate>
</ResolveData>
<issuer id>123456789012345</issuer id>
</receipt>
<receipt>
<DataKey>XKwBrc6n8sHIJftK1mNf0TFb3/DataKey>
<ReceiptId>Moneris test Dec20 3</ReceiptId>
<ReferenceNum>null</ReferenceNum>
<ResponseCode>001</ResponseCode>
<ISO>null</ISO>
<AuthCode>null</AuthCode>
<Message>Successfully updated CC details.
<TransTime>14:02:39</TransTime>
<TransDate>2010-12-21</TransDate>
<TransType>null</TransType>
<Complete>true</Complete>
<TransAmount>null</TransAmount>
<CardType>null</CardType>
<TransID>null</TransID>
<TimedOut>false</TimedOut>
<CorporateCard>null</CorporateCard>
<RecurSuccess>null</RecurSuccess>
<AvsResultCode>null</AvsResultCode>
<CvdResultCode>null</CvdResultCode>
<ResSuccess>true</ResSuccess>
<PaymentType>cc</PaymentType>
<ResolveData>
<cust id></cust id>
<phone></phone>
<email></email>
<note></note>
<crypt type>7</crypt type>
<expdate>1212</expdate>
<masked pan>4242***4242</masked pan>
</ResolveData>
</receipt>
<receipt>
<DataKey>RbFbmySFugYNRSmTaN6Gkm08r/DataKey>
<ReceiptId>Moneris_test_Dec20_4</ReceiptId>
<ReferenceNum>null</ReferenceNum>
<ResponseCode>001</ResponseCode>
<ISO>null</ISO>
<AuthCode>null</AuthCode>
<Message>Successfully updated CC details.
<TransTime>14:02:49</TransTime>
<TransDate>2010-12-21</TransDate>
<TransType>null</TransType>
<Complete>true</Complete>
<TransAmount>null</TransAmount>
<CardType>null</CardType>
<TransID>null</TransID>
<TimedOut>false</TimedOut>
<CorporateCard>null</CorporateCard>
<RecurSuccess>null</RecurSuccess>
<AvsResultCode>null</AvsResultCode>
<CvdResultCode>null</CvdResultCode>
<ResSuccess>true</ResSuccess>
<PaymentType>cc</PaymentType>
<ResolveData>
<cust id>My Customer Name</cust id>
<phone>555-800-1122</phone>
```

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```
<email>my email@mail.com</email>
 <note>I have no note at this time</note>
 <avs street name>main st</avs street name>
 <avs street number>1</avs street number>
 <avs zipcode>123456</avs zipcode>
 <crypt_type>7</crypt_type>
 <expdate>1201</expdate>
 <masked pan>5454***5454</masked pan>
 </ResolveData>
 <issuer id>123456789012345</issuer id>
  </receipt>
 <receipt>
 <DataKey>RbFbmySFugYNRSmTaN6Gkm08r</DataKey>
 <ReceiptId>Moneris test Dec20 5</ReceiptId>
 <ReferenceNum>null</ReferenceNum>
 <ResponseCode>001</ResponseCode>
  <ISO>null</ISO>
  <AuthCode>null</AuthCode>
 <Message>Successfully deleted CC details.
 <TransTime>16:44:20</TransTime>
 <TransDate>2010-12-21</TransDate>
 <TransType>null</TransType>
 <Complete>true</Complete>
  <TransAmount>null</TransAmount>
 <CardType>null</CardType>
 <TransID>null</TransID>
 <TimedOut>false</TimedOut>
 <CorporateCard>null</CorporateCard>
 <RecurSuccess>null</RecurSuccess>
  <AvsResultCode>null</AvsResultCode>
  <CvdResultCode>null</CvdResultCode>
 <ResSuccess>true</ResSuccess>
 <PaymentType>cc</PaymentType>
 <ResolveData>
 <cust_id>My_Customer_Name</cust_id>
 <phone>555-800-1122</phone>
  <email>my email@mail.com</email>
 <note>I have no note at this time</note>
 <expdate>1201</expdate>
 <avs street number>1</avs street number>
 <avs street name>main st</avs street name>
 <avs zipcode>123456</avs zipcode>
 <masked pan>5454***5454</masked pan>
 <crypt_type>7</crypt_type>
 </ResolveData>
  </receipt>
</response>
```

2.3.3 Vault Financial Transactions

- 2.3.3.2 Purchase with Vault
- 1 Purchase with Vault and Credential on File
- 2.3.3.3 Pre-Authorization with Vault
- 1 Pre-Authorization with Vault and Credential on File
- 2.3.3.4 Vault Independent Refund

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2.3.3.1 About Vault Financial Transactions

The Vault feature allows merchants to create long-term customer profiles, edit those profiles, and use them to process transactions without having to enter financial information each time.

2.3.3.2 Purchase with Vault

This transaction uses the data key to identify a previously registered credit card profile. The details saved within the profile are then submitted to perform a Purchase transaction.

Optional Features

Recurring Billing – See below Customer Information – See 2.7 Customer Information

XML Parent Tag

<res_purchase_cc>

Purchase with Vault transaction request fields - Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Data key	String	The data key is the token that points
data_key	25-character alphanumeric	to a previously stored profile; a profile identifier that all future financial Vault

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Variable Name	Type and Limits	Description
		transactions (i.e., they occur after the profile was registered by a Vault Add Credit Card or Vault Tokenize Credit Card transaction) will use to associate with the saved information The data key is generated by Moneris, and is returned to the merchant (via the Receipt object) when the profile is first registered
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant
Credential on File Info cof_info	Object n/a	Required for transactions using stored cardholder credentials
		This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center

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Variable Name	Type and Limits	Description
Customer Information cust_info	<i>Object</i> n/a	This is a nested object within the transaction. See the Customer Information Request Fields table below for definitions of the Customer Informationspecific fields.
Recurring Billing recur	Object n/a	Recurring Billing allows you to set up payments whereby Moneris automatically processes the transactions and bills customers on your behalf based on the billing cycle information you provide. This is a nested object within the transaction. See the Recurring Billing Transasctions Request Fields table below for definitions of the Recurring Billing-specific fields.

Recurring Billing Transactions Request Fields

These are required only as part of Recurring Billing transaction requests.

XML Parent Tag

<recur>

Recurring Billing fields below are children of the <recur> tag

Variable Name	Type and Limits	Description
recur_unit	String day, week, month, eom	The unit that you wish to use as a basis for the Interval. This can be set as day, week or month. Then using the "period" field you can configure how many days, weeks, months between billing cycles.
period	String 0 – 999 characters, numeric	This is the number of recur_ units you wish to pass between billing cycles. Example : period = 3, recur_unit=month - > Card will be billed every 3 months.

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Variable Name	Type and Limits	Description
		period = 4, recur_unit=weeks -> Card will be billed every 4 weeks.
		period = 45, recur_unit=day -> Card will be billed every 45 days.
		Please note that the total duration of the recurring billing transaction should not exceed 5-10 years in the future.
start_date	String YYYY/MM/DD	This is the date on which the first charge will be billed. The value must be in the future. It cannot be the day on which the transaction is being sent. If the transaction is to be billed immediately the start_now feature must be set to true and the start_date should be set at the desired interval after today.
start_now	String true / false	When a charge is to be made against the card immediately start_now should be set to 'true'. If the billing is to start in the future then this value is to be set to 'false'. When start_now is set to 'true' the amount to be billed immediately may differ from the recur amount billed on a regular basis thereafter.
recur_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of the recurring transaction. This must contain 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99. This is the amount that will be billed on the start_date and every interval thereafter.

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Variable Name	Type and Limits	Description
num_recurs	String	The number of times to recur
	1 – 99 characters, numeric	the transaction.

Customer Information Request Fields

For information about the Customer Information object fields, see 2.7.2 Customer Information (cust_info) Fields.

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent transactions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction

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Variable Name	Type and Limits	Description
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value:
		2 - subsequent transactions (using previously stored payment details)

2.3.3.3 Pre-Authorization with Vault

This transaction uses the data key to identify a previously registered credit card profile. The details saved within the profile are then submitted to perform a Pre-Authorization transaction.

Optional Features

Customer Information – See 2.7 Customer Information

XML Parent Tag

<res_preauth_cc>

Pre-Authorization with Vault transaction request fields - Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2- character numeric after the decimal point	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99

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Variable Name	Type and Limits	Description
	EXAMPLE: 123456.78	
Data key data_key	String 25-character alphanumeric	The data key is the token that points to a previously stored profile; a profile identifier that all future financial Vault transactions (i.e., they occur after the profile was registered by a Vault Add Credit Card or Vault Tokenize Credit Card transaction) will use to associate with the saved information The data key is generated by Moneris, and is returned to the merchant (via the Receipt object) when the profile is first registered
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant
Credential on File Info	Object n/a	Required for transactions using stored cardholder credentials This is a nested object within the transaction. See the Credential on File Request Fields table below for definitions of the Credential on File-specific fields.

Variable Name	Type and Limits	Description
Customer ID	String	Merchant-defined value, used for additional identification purposes

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Variable Name	Type and Limits	Description
cust_id	50-character alphanumeric	EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center
Customer Information cust_info	<i>Object</i> n/a	This is a nested object within the transaction. See the Customer Information Request Fields table below for definitions of the Customer Informationspecific fields.

Customer Information Request Fields

For information about the Customer Information object fields, see 2.7.2 Customer Information (cust_info) Fields.

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator	String	Indicates the intended or current use of the credentials

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Variable Name	Type and Limits	Description
payment_indicator	1-character alphabetic	Possible values for subsequent transactions: R - recurring
		U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

2.3.3.4 Vault Independent Refund

Credits a specified amount to the cardholder's credit card.

It is not necessary for the transaction that you are refunding to have been processed via the Moneris Gateway.

XML Parent Tag

<res_ind_refund_cc>

Vault Independent Refund transaction request fields – Required

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to	This must contain at least 3 digits with

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Type and Limits	Description
6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
String 25-character alphanumeric	The data key is the token that points to a previously stored profile; a profile identifier that all future financial Vault transactions (i.e., they occur after the profile was registered by a Vault Add Credit Card or Vault Tokenize Credit Card transaction) will use to associate with the saved information The data key is generated by Moneris, and is returned to the merchant (via the Receipt object) when the profile is first registered
String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant
	6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78 String 25-character alphanumeric

Vault Independent Refund transaction request fields – Optional

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes
	·	EXAMPLE: policy number, membership

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Variable Name	Type and Limits	Description
		number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center

2.3.3.5 Example – Batch With Vault Financial Transactions

The following sample code illustrates a batch file that includes both Vault and basic financial transactions, followed by a sample of the corresponding response.

```
<?xml version="1.0"?>
 <request>
 <store id>store1</store id>
 <api_token>yesguy</api_token>
 <purchase>
 <order_id>test_xml_00001</order_id>
 <cust id>Customer Name</cust id>
 <amount>10.00</amount>
 <pan>5454545454545454</pan>
 <expdate>0605</expdate>
 <crypt type>1</crypt_type>
 <cof info>
 <payment indicator>U</payment indicator>
 <payment_information>2</payment_information>
 <issuer id>123456789012345</issuer id>
 </cof info>
 </purchase>
 <purchase>
 <order_id>test_xml_00002</order id>
 <amount>1.04</amount>
 <pan>42424242424242</pan>
 <expdate>0806</expdate>
 <crypt_type>1</crypt_type>
 </purchase>
 <res purchase cc>
 <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
 <order_id>Moneris_test_Dec20_6</order_id>
 <cust id>My Customer Name</cust id>
 <amount>55.00</amount>
 <crypt type>7</crypt_type>
 <cof info>
 <payment_indicator>U</payment_indicator>
 <payment_information>2</payment_information>
 <issuer id>123456789012345</issuer id>
 </cof info>
 </res_purchase_cc>
</request>
```

Corresponding Example Response for Vault Financial Transaction

```
<?xml version="1.0"?>
<response>
<receipt>
```

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```
<ReceiptId>test xml 00001/ReceiptId>
 <ReferenceNum>660021730013780180</ReferenceNum>
 <ResponseCode>027</ResponseCode>
 <ISO>01</ISO>
 <AuthCode>009213</AuthCode>
 <TransTime>16:04:33</TransTime>
 <TransDate>2006-06-20</TransDate>
 <TransType>00</TransType>
 <Complete>true</Complete>
 <Message>APPROVED * =</Message>
 <TransAmount>10.00</TransAmount>
 <CardType>M</CardType>
 <TransID>84112-18-0</TransID>
 <TimedOut>false</TimedOut>
 <BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 <IssuerId>123456789012345/IssuerId>
  </receipt>
 <receipt>
 <ReceiptId>test xml 00002/ReceiptId>
 <ReferenceNum>660021630014070190</ReferenceNum>
 <ResponseCode>075</ResponseCode>
 <ISO>14</ISO>
 <AuthCode>000000</AuthCode>
 <TransTime>16:04:35</TransTime>
 <TransDate>2006-06-20</TransDate>
 <TransType>00</TransType>
 <Complete>true</Complete>
 <Message>DECLINED * CARD PROBLEM =CARD PROBLEM
 <TransAmount>1.04</TransAmount>
  <CardType>00</CardType>
 <TransID>156091-19-0</TransID>
 <TimedOut>false</TimedOut>
 <BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 </receipt>
 <receipt>
 <DataKey>RbFbmySFugYNRSmTaN6Gkm08r/DataKey>
 <ReceiptId>Moneris test Dec20 6</ReceiptId>
 <ReferenceNum>660021820010918800</ReferenceNum>
 <ResponseCode>027</ResponseCode>
 <TSO>01</TSO>
 <AuthCode>001945</AuthCode>
  <Message>APPROVED * =</Message>
 <TransTime>14:03:53</TransTime>
 <TransDate>2010-12-21</TransDate>
 <TransType>00</TransType>
 <Complete>true</Complete>
 <TransAmount>55.00</TransAmount>
 <CardType>M</CardType>
 <TransID>966830-0 7</TransID>
 <TimedOut>false</TimedOut>
 <CorporateCard>false</CorporateCard>
 <RecurSuccess>false</RecurSuccess>
 <AvsResultCode>null</AvsResultCode>
 <CvdResultCode>null</CvdResultCode>
  <ResSuccess>true</ResSuccess>
 <PaymentType>cc</PaymentType>
 <ResolveData>
 <cust id>My Customer Name</cust id>
 <phone>555-800-1122</phone>
 <email>my_email@mail.com</email>
 <note>I have no note at this time</note>
 <expdate>1201</expdate>
 <avs street number>1</avs street number>
<avs street name>main st</avs street name>
```

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```
<avs_zipcode>123456</avs_zipcode>
<masked_pan>5454***5454</masked_pan>
<crypt_type>7</crypt_type>
</ResolveData>
<IssuerId>123456789012345</IssuerId>
</receipt>
</response>
```

2.4 Level 2/3 Transactions

Level 2/3 Purchase – (batch_I23purchase)

The Batch Upload Level 2/3 Purchase handles Pre-Authorization and Pre-Authorization Completion in a single step. If you have already done a Pre-Authorization, perform a Level 2/3 Force Post instead.

Level 2/3 Force Post – (batch_l23forcepost)

The Level 2/3 Force Post retrieves the locked funds from a previously processed Pre-Authorization and readies them for settlement into the merchant's account along with the submission of level 2/3 details sent within the transaction request.

Level 2/3 Purchase Correction – (batch_l23purchasecorrection)

Purchase and Force Post transactions can be voided the same day that they occur. A Void must be for the full amount of the transaction and will remove any record of it from the cardholder's statement. This transaction type does not accept Level 2/3 details as no information is submitted to bank.

NOTE: A Purchase Correction can be performed against a transaction as long as the batch that contains the original transaction remains open.

Level 2/3 Refund – (batch 123refund)

A Refund with level 2/3 details can be performed against a Purchase or a Force Post to refund any part, or all of the transaction. This refund will show up on cardholder's statement along with level 2/3 details that were submitted with this transaction request. A prior Purchase or Force Post transaction is required to use this transaction.

Level 2/3 Independent Refund – (batch 123ind refund)

An Independent Refund can be performed to credit money to a Credit Card along with the submission of level 2/3 details pertaining to this refund. This transaction does not require a prior Purchase or Force Post.

2.4.1 Transaction Flow for Level 2/3 Batch Upload



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Was the transaction processed via the Moneris Gateway? Yes Has the batch already been closed? No Batch Level 2/3 Independent Refund Batch Level 2/3 Refund

2.4.1.1 Batch Upload Level 2/3 Refunds Process Flow

2.4.2 Sending Level 2/3 Transactions

For Level 2/3 transactions, the basic Pre-Authorization transaction is used to authorize payment from a customer, and if the response contains CorporateCard = true, then the Level 2/3 details will be captured in the following Level 2/3 Force Post transaction.

Level 2/3 Force Post and Level 2/3 Independent Refund transactions do not require prior transaction requests.

Batch files that contain Level 2/3 transactions must be sent in a different batch file than non-Level 2/3 transactions, using the filename extension .123.xml.

The following tables illustrates the fields that you can send for each transaction type. For a full description of each field, please refer to Appendix A Definition of Request Fields.

For an example including all of the transaction types and their respective structures, please refer to 2.4.8 Example – XML for Level 2/3 Transaction.

XML Root Tag

<123 batch>

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NOTE: The root tag for Level 2/3 transactions is the <123_batch>, and the <request> tag is the child of <123_batch>.

NOTE: The above mentioned transactions can only be performed on purchasing corporate card. Addendum1 is mandatory. Also at least 1 or more Addendum2 is required. If account is setup with Level 2/3 Addendum Data bypass account rights, merchant may send in Non Purchasing Corporate Cards with addendum 1 and 2. In this scenario, the transaction will be processed as a Level 1 transaction but the entire request XML including addendum 1 and 2 will be echoed back in the transaction response.

2.4.3 Level 2/3 Purchase – Batch Upload

XML Parent Tag - Level 2/3 Purchase

<batch123 purchase>

Store ID <store id>

<subchild>

transaction request fields – Required Batch Upload Level 2/3 Purchase

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 9999999.99
	EXAMPLE:	

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Variable Name	Type and Limits	Description
	123456.78	
Credit card number pan	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date expdate	String 4-character numeric YYMM format	Expiry date with no spaces or slashes. NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant 8 - Non-secure Transaction (Web or Email Based) 9 - SET non-authenticated transaction
Credential on File Info	Object	Required whenever storing cardholder credentials for the first time and when using those credentials in subsequent transactions. This is a nested object within the transaction. See the Credential on File Request Fields table below for defin-

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Variable Name	Type and Limits	Description
		itions of the Credential on File-specific fields.
Addendum 1 (Level 2) addendum1	Object N/A	Contains Level 2 field details; see Addendum 1 Request Fields table below for fields

transaction request fields – Optional Batch Upload Level 2/3 Purchase

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center
Addendum 2 (Level 3) addendum2	Object N/A	Contains Level 3 field details; see Addendum 2 Request Fields table below for fields

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you

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Variable Name	Type and Limits	Description
Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).		must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent trans- actions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent transactions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

Level 2/3 Addendum Object – Level 2 Request Fields

Variable Name	Type and Limits	Description
Customer code customer_code	String 40-character alphanumeric	A control number, such as purchase order number, project number, department allocation number or name supplied by the customer
Discount amount discount_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Monetary amount of discount on the transaction

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Variable Name	Type and Limits	Description
Freight amount freight_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Shipping cost on the transaction
Duty amount duty_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Applicable amount of duty charged on the transaction
National tax amount national_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of federal-level taxes charged on the transaction, e.g., GST or HST
Other tax amount other_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Provincial tax amount charged on the transaction, e.g., PST or QST
Merchant VAT number merchant_vat_no	String 15-character alphanumeric	Your GST registration number

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Variable Name	Type and Limits	Description
Customer VAT number customer_vat_no	String 13-character alphanumeric	The customer's GST registration number
Destination postal code destination_zip	String 10-character alphanumeric	Postal code of the destination of goods
Ship from postal code ship_from_zip	String 10-character alphanumeric	Postal code of the shipping location

Level 2/3 Addendum Object – Level 3 Request Fields

Variable Name	Type and Limits	Description
Item description item_description	String 40-character alphanumeric	Description of item; length allowed may differ by card brand
Product code product_code	String 12-character alphanumeric	UPC or product code of an item
Quantity quantity	String (missing or bad snippet)	Quantity of units of a particular item being purchased
Unit cost unit_cost	String (missing or bad snippet)	Unit cost of an item
Total cost ext_amount	String (missing or bad snippet)	Total cost of a particular item being purchased (quantity X unit cost)
Unit of measure	String 12-character alphanumeric	Unit of measure used for the item being purchased, as in common use for international trade
Item discount amount item_discount_amount	String (missing or bad snippet)	Dollar amount of discount applied to total cost of item
Item tax amount item_tax_amount	String (missing or bad snippet)	Dollar amount of national-level tax charged on item; for Canada, this is GST or HST.

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Variable Name	Type and Limits	Description
Item other tax amount item_other_tax_amount	String (missing or bad snippet)	Dollar amount of any other taxes applied to the item purchased
Item other tax type item_other_tax_type	String 4-character alphanumeric	Indicates the type of other tax being applied
	4 character alphanament	Possible values:
		PST - Provincial Sales Tax
		QST - Quebec Sales Tax (or other)

2.4.4 Level 2/3 Force Post – Batch Upload

XML Parent Tag - Level 2/3 Force Post

<batch123 forcepost>

Store ID <store_id>

<subchild>

transaction request fields – RequiredBatch Upload Level 2/3 Force Post

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String 9-character decimal. Up to 6-character numeric + 2- character numeric after the decimal point	Amount of the transaction. This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 99999999.99

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Variable Name	Type and Limits	Description
	EXAMPLE: 123456.78	
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction.
		When performing a Pre- Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must ref- erence the Pre- Authorization Completion or the Purchase.
Credit card number	String	Credit Card Number with no spaces or dashes.
pan	20-character numeric	Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
Authorization code auth_code	String 8-character alphanumeric	Authorization code provided in the transaction response from the issuing bank
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment4 - Mail Order / Telephone Order - Unknown

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Variable Name	Type and Limits	Description
		Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant
Addendum 1 (Level 2) addendum1	<i>Object</i> N/A	Contains Level 2 field details; see Addendum 1 Request Fields table below for fields

transaction request fields – Optional Batch Upload Level 2/3 Force Post

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes
		EXAMPLE: policy number, membership number, student ID, invoice number.
		Can be searched from the Moneris Merchant Resource Center
Addendum 2 (Level 3)	Object	Contains Level 3 field details; see
addendum2	N/A	Addendum 2 Request Fields table below for fields

Level 2/3 Addendum Object – Level 2 Request Fields

Variable Name	Type and Limits	Description
Customer code customer_code	String 40-character alphanumeric	A control number, such as purchase order number, project number, department allocation number or name supplied by the customer
Discount amount discount_amount	String 9-character decimal. Up to 6-character numeric + 2- character numeric after the	Monetary amount of discount on the transaction

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Variable Name	Type and Limits	Description
	decimal point EXAMPLE: 123456.78	
Freight amount freight_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Shipping cost on the transaction
Duty amount duty_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Applicable amount of duty charged on the transaction
National tax amount national_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of federal-level taxes charged on the transaction, e.g., GST or HST
Other tax amount other_tax_amount	String 9-character decimal. Up to 6-character numeric + 2- character numeric after the decimal point	Provincial tax amount charged on the transaction, e.g., PST or QST

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Variable Name	Type and Limits	Description
	EXAMPLE: 123456.78	
Merchant VAT number	String	Your GST registration number
merchant_vat_no	15-character alphanumeric	
Customer VAT number	String	The customer's GST registration num-
customer_vat_no	13-character alphanumeric	ber
Destination postal code	String	Postal code of the destination of
destination_zip	10-character alphanumeric	goods
Ship from postal code	String	Postal code of the shipping location
ship_from_zip	10-character alphanumeric	

Level 2/3 Addendum Object – Level 3 Request Fields

Variable Name	Type and Limits	Description
Item description item_description	String 40-character alphanumeric	Description of item; length allowed may differ by card brand
Product code product_code	String 12-character alphanumeric	UPC or product code of an item
Quantity quantity	String (missing or bad snippet)	Quantity of units of a particular item being purchased
Unit cost unit_cost	String (missing or bad snippet)	Unit cost of an item
Total cost ext_amount	String (missing or bad snippet)	Total cost of a particular item being purchased (quantity X unit cost)
Unit of measure	String 12-character alphanumeric	Unit of measure used for the item being purchased, as in common use for international trade

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Variable Name	Type and Limits	Description
Item discount amount item_discount_amount	String (missing or bad snippet)	Dollar amount of discount applied to total cost of item
Item tax amount item_tax_amount	String (missing or bad snippet)	Dollar amount of national-level tax charged on item; for Canada, this is GST or HST.
Item other tax amount item_other_tax_amount	String (missing or bad snippet)	Dollar amount of any other taxes applied to the item purchased
Item other tax type item_other_tax_type	String 4-character alphanumeric	Indicates the type of other tax being applied
		Possible values:
		PST - Provincial Sales Tax
		QST - Quebec Sales Tax (or other)

2.4.5 Level 2/3 Purchase Correction – Batch Upload

Restores the full amount of a previous Level 2/3 Purchase or Level 2/3 Force Post transaction to the cardholder's card, and removes any record of it from the cardholder's statement.

If the batch has already closed, use a Level 2/3 Refund instead.

XML Parent Tag – Level 2/3 Purchase Correction

<batch123 purchasecorrection>

Store ID <store_id>

<subchild>

transaction request fields – Required Batch Upload Level 2/3 Purchase Correction

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID.

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Variable Name	Type and Limits	Description
		For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction.
		When performing a Pre- Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must ref- erence the Pre- Authorization Completion or the Purchase.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant

2.4.6 Level 2/3 Refund – Batch Upload

Restores all or part of the funds from a Level 2/3 Purchase or Level 2/3 Force Post transaction to the cardholder's card. Unlike a Purchase Correction, after a Refund there is a record of both the initial charge and the refund on the cardholder's statement.

If the transaction is still in an open batch, use the Level 2/3 Purchase Correction instead.

XML Parent Tag – Level 2/3 Refund

<batch123 refund>

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Store ID <store_id>

<subchild>

transaction request fields - RequiredBatch Upload Level 2/3 Refund

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Transaction number txn_number	String 255-character alphanumeric	Used when performing follow on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction. When performing a Pre-Authorization Completion this must reference the Pre-Authorization. When performing a Refund or a Purchase Correction this must reference the Pre-Authorization or the Purchase.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single

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Variable Name	Type and Limits	Description
		 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction
		(VBV)6 – Non Authenticated E-commerce Transaction (VBV)7 - SSL enabled merchant
Addendum 1 (Level 2) addendum1	Object N/A	Contains Level 2 field details; see Addendum 1 Request Fields table below for fields

Optional Request Fields – Level 2/3 Refund

Variable Name	Type and Limits	Description
Addendum 2 (Level 3) addendum2	Object N/A	Contains Level 3 field details; see Addendum 2 Request Fields table below for fields

Level 2/3 Addendum Object – Level 2 Request Fields

Variable Name	Type and Limits	Description
Customer code customer_code	String 40-character alphanumeric	A control number, such as purchase order number, project number, department allocation number or name supplied by the customer
Discount amount discount_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE:	Monetary amount of discount on the transaction

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Variable Name	Type and Limits	Description
	123456.78	
Freight amount freight_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Shipping cost on the transaction
Duty amount duty_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Applicable amount of duty charged on the transaction
National tax amount national_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of federal-level taxes charged on the transaction, e.g., GST or HST
Other tax amount other_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Provincial tax amount charged on the transaction, e.g., PST or QST

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Variable Name	Type and Limits	Description
Merchant VAT number merchant_vat_no	String 15-character alphanumeric	Your GST registration number
Customer VAT number customer_vat_no	String 13-character alphanumeric	The customer's GST registration number
Destination postal code destination_zip	String 10-character alphanumeric	Postal code of the destination of goods
Ship from postal code ship_from_zip	String 10-character alphanumeric	Postal code of the shipping location

Level 2/3 Addendum Object – Level 3 Request Fields

Variable Name	Type and Limits	Description
Item description item_description	String 40-character alphanumeric	Description of item; length allowed may differ by card brand
Product code product_code	String 12-character alphanumeric	UPC or product code of an item
Quantity quantity	String (missing or bad snippet)	Quantity of units of a particular item being purchased
Unit cost unit_cost	String (missing or bad snippet)	Unit cost of an item
Total cost ext_amount	String (missing or bad snippet)	Total cost of a particular item being purchased (quantity X unit cost)
Unit of measure	String 12-character alphanumeric	Unit of measure used for the item being purchased, as in common use for international trade
Item discount amount item_discount_amount	String (missing or bad snippet)	Dollar amount of discount applied to total cost of item

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Variable Name	Type and Limits	Description
Item tax amount item_tax_amount	String (missing or bad snippet)	Dollar amount of national-level tax charged on item; for Canada, this is GST or HST.
Item other tax amount item_other_tax_amount	String (missing or bad snippet)	Dollar amount of any other taxes applied to the item purchased
Item other tax type item_other_tax_type	String 4-character alphanumeric	Indicates the type of other tax being applied Possible values:
		PST - Provincial Sales Tax QST - Quebec Sales Tax (or other)

2.4.7 Level 2/3 Independent Refund – Batch Upload

Credits a specified amount to the cardholder's credit card, while also including Level 2 and/or Level 3 information.

It is not necessary for the transaction that you are refunding to have been processed via the Moneris Gateway.

XML Parent Tag – Level 2/3 Independent Refund

<batch123 ind refund>

Store ID <store_id>

<subchild>

transaction request fields - Required Batch Upload Level 2/3 Independent Refund

Variable Name	Type and Limits	Description
Order ID order_id	String 50-character alphanumeric	Merchant-defined transaction identifier that must be unique for every Purchase, Pre-Authorization and Independent Refund transaction. No two transactions of these types may have the same order ID. For Refund, Completion and Purchase Correction transactions, the order ID

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Variable Name	Type and Limits	Description
		must be the same as that of the original transaction.
Amount	String	Amount of the transaction.
amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99
Credit card number	String	Credit Card Number with no spaces or dashes.
pan	20-character numeric	Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.
Expiry Date	String	Expiry date with no spaces or slashes.
expdate	4-character numeric YYMM format	NOTE: This is reversed from the date format displayed on the physical card, MMYY.
E-commerce indicator	String	E-commerce Indicator possible values:
crypt_type	1-character alphanumeric	1 - Mail Order / Telephone Order - Single
		2 - Mail Order / Telephone Order - Recurring
		3 - Mail Order / Telephone Order - Instalment
		4 - Mail Order / Telephone Order - Unknown Classification
		5 - Authenticated E-commerce Transaction (VBV)
		6 – Non Authenticated E-commerce Transaction (VBV)
		7 - SSL enabled merchant

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Variable Name	Type and Limits	Description
Addendum 1 (Level 2)	Object	Contains Level 2 field details; see
addendum1	N/A	Addendum 1 Request Fields table below for fields

transaction request fields - Optional Level 2/3 Independent Refund

Variable Name	Type and Limits	Description
Customer ID cust_id	String 50-character alphanumeric	Merchant-defined value, used for additional identification purposes EXAMPLE: policy number, membership number, student ID, invoice number. Can be searched from the Moneris Merchant Resource Center
Addendum 2 (Level 3) addendum2	Object N/A	Contains Level 3 field details; see Addendum 2 Request Fields table below for fields

Level 2/3 Addendum Object – Level 2 Request Fields

Variable Name	Type and Limits	Description
Customer code customer_code	String 40-character alphanumeric	A control number, such as purchase order number, project number, department allocation number or name supplied by the customer
Discount amount discount_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Monetary amount of discount on the transaction
Freight amount	String	Shipping cost on the transaction

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Variable Name	Type and Limits	Description
freight_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	
Duty amount duty_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Applicable amount of duty charged on the transaction
National tax amount national_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of federal-level taxes charged on the transaction, e.g., GST or HST
Other tax amount other_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Provincial tax amount charged on the transaction, e.g., PST or QST
Merchant VAT number merchant_vat_no	String 15-character alphanumeric	Your GST registration number
Customer VAT number	String	The customer's GST registration num-

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Variable Name	Type and Limits	Description
customer_vat_no	13-character alphanumeric	ber
Destination postal code destination_zip	String 10-character alphanumeric	Postal code of the destination of goods
Ship from postal code ship_from_zip	String 10-character alphanumeric	Postal code of the shipping location

Level 2/3 Addendum Object – Level 3 Request Fields

Variable Name	Type and Limits	Description
Item description item_description	String 40-character alphanumeric	Description of item; length allowed may differ by card brand
Product code product_code	String 12-character alphanumeric	UPC or product code of an item
Quantity quantity	String (missing or bad snippet)	Quantity of units of a particular item being purchased
Unit cost unit_cost	String (missing or bad snippet)	Unit cost of an item
Total cost ext_amount	String (missing or bad snippet)	Total cost of a particular item being purchased (quantity X unit cost)
Unit of measure	String 12-character alphanumeric	Unit of measure used for the item being purchased, as in common use for international trade
Item discount amount item_discount_amount	String (missing or bad snippet)	Dollar amount of discount applied to total cost of item
Item tax amount item_tax_amount	String (missing or bad snippet)	Dollar amount of national-level tax charged on item; for Canada, this is GST or HST.
Item other tax amount	String	Dollar amount of any other taxes

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Variable Name	Type and Limits	Description
item_other_tax_amount	(missing or bad snippet)	applied to the item purchased
Item other tax type item_other_tax_type	String 4-character alphanumeric	Indicates the type of other tax being applied
		Possible values:
		PST - Provincial Sales Tax
		QST - Quebec Sales Tax (or other)

2.4.8 Example – XML for Level 2/3 Transaction

The following sample code illustrates an XML request for a Level 2/3 transaction. The example response subsequently follows.

```
<?xml version="1.0" encoding="iso-8859-1"?>
<123 batch>
        <store id>moneris</store id>
       <api token>hurgle</api token>
        <batch 123purchase>
           -
<order id>NQA 20140428 0</order id>
           <cust id>custid123</cust id>
           <amount>1.00</amount>
           <pan>4242424254545454</pan>
           <expdate>1512</expdate>
           <crypt type>7</crypt type>
           <addendum1>
               <customer code>customer code
               <discount amount>1.12</discount amount>
               <freight amount>2.23</freight amount>
               <duty_amount>3.34</duty_amount>
               <national tax amount>4.56/national tax amount>
               <other_tax_amount>5.67</other_tax_amount>
               <merchant_vat_no>merchant_vat_no/merchant_vat_no>
               <customer vat no>cus vat no</customer vat no>
               <destination zip>M1R 1W4</destination zip>
               <ship from zip>M6K 2H9</ship from zip>
             </addendum1>
           <addendum2>
               <item description>item description</item description>
               cproduct code code
               <quantity>12</quantity>
               <unit cost>1.2345</unit cost>
               <ext amount>2.89</ext amount>
               <uom>EA</uom>
               <item discount amount>6.78</item discount amount>
               <item_tax_amount>4.32</item_tax_amount>
               <item_other_tax_amount>1.94</item_other tax amount>
               <item other tax type>QST</item other tax type>
           </addendum2>
        </batch_123purchase>
    </request>
    <request>
```

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```
<store id>moneris</store id>
<api token>hurgle</api token>
<batch 123ind refund>
   <order id>NQA 20140428 1/order id>
   <cust id>custid123</cust id>
   <amount>1.00</amount>
   <pan>4242424254545454</pan>
   <expdate>1512</expdate>
   <crypt_type>7</crypt_type>
   <addendum1>
       <customer code>customer code
       <discount amount>1.12</discount amount>
       <freight amount>2.23</freight amount>
       <duty amount>3.34</duty amount>
       <national tax amount>4.56/national tax amount>
       <other_tax_amount>5.67</other_tax_amount>
       <merchant vat no>merchant vat no/merchant vat no>
       <customer_vat_no>cus_vat_no</customer_vat_no>
       <destination zip>M1R 1W4</destination zip>
       <ship from zip>M6K 2H9</ship from zip>
   </addendum1>
   <addendum2>
       <item description>item description</item description>
       cproduct code/product code>
       <quantity>12</quantity>
       <unit cost>1.2345</unit cost>
       <ext amount>2.89</ext amount>
       <uom>EA</uom>
       <item discount amount>6.78</item discount amount>
       <item tax amount>4.32</item tax amount>
       <item_other_tax_amount>1.94</item_other_tax_amount>
       <item_other_tax_type>QST</item_other_tax_type>
   </addendum2>
</batch 123ind refund>
<batch 123forcepost>
   <order id>NQA 20140428 3/order id>
   <cust id>custid123</cust id>
   <amount>1.00</amount>
   <pan>4242424254545454</pan>
   <expdate>1512</expdate>
   <auth code>964734</auth code>
   <crypt_type>7</crypt_type>
   <addendum1>
       <customer_code>customer_code
       <discount amount>1.12</discount amount>
       <freight amount>2.23</freight amount>
       <duty amount>3.34</duty amount>
       <national tax amount>4.56/national tax amount>
       <other_tax_amount>5.67</other_tax_amount>
       <merchant vat no>merchant vat no/merchant vat no>
       <customer_vat_no>cus_vat_no</customer_vat_no>
       <destination zip>M1R 1W4</destination zip>
       <ship from zip>M6K 2H9</ship from zip>
   </addendum1>
   <addendum2>
       <item description>item description</item description>
       cproduct code/product code>
       <quantity>12</quantity>
       <unit cost>1.2345</unit cost>
       <ext amount>2.89</ext amount>
       <uom>EA</uom>
       <item_discount_amount>6.78</item discount amount>
       <item tax amount>4.32</item tax amount>
       <item other tax amount>1.94</item other tax amount>
       <item_other_tax_type>QST</item_other_tax_type>
```

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```
</batch_123forcepost>
     </request>
     </123_batch>
```

Corresponding Response Example

NOTE: The response below has been re-formatted with spacing and newlines for documentation purpose. In the actual response, the whole response is a single line, so you should be parsing for XML tags rather than newline.

```
<123 batch>
   <response>
       <orig request>
            <request>
                <store id>moneris</store id>
                <api __token>hurgle</api_token>
                <batch 123purchase>
                    <order id>NQA 20140428 0</order id>
                    <cust id>custid123</cust id>
                    <amount>1.00</amount>
                    <pan>4242****5454</pan>
                    <expdate>1512</expdate>
                    <crypt_type>7</crypt_type>
                    <addendum1>
                        <customer_code>customer_code</customer_code>
                        <discount amount>1.12</discount amount>
                        <freight amount>2.23</freight amount>
                        <duty amount>3.34</duty amount>
                        <national tax amount>4.56/national tax amount>
                        <other_tax_amount>5.67</other_tax_amount>
                        <merchant_vat_no>merchant_vat_no/merchant_vat_no>
                        <customer_vat_no>cus vat no</customer vat no>
                        <destination zip>M1R 1W4</destination zip>
                        <ship_from_zip>M6K 2H9</ship_from_zip>
                    </addendum1>
                    <addendum2>
                        <item description>item description</item description>
                        cproduct_code/product_code>
                        <quantity>12</quantity>
                        <unit cost>1.2345</unit cost>
                        <ext amount>2.89</ext_amount>
                        <uom>EA</uom>
                        <item_discount_amount>6.78</item_discount_amount>
                        <item_tax_amount>4.32</item_tax_amount>
                        <item_other_tax_amount>1.94</item other tax amount>
                        <item other tax type>QST</item other tax type>
                    </addendum2>
                </batch 123purchase>
            </request>
        </orig_request>
        <receipt>
            <ReceiptId>NQA 20140428 0</ReceiptId>
            <ReferenceNum>660117310013420270</ReferenceNum>
            <ResponseCode>005</ResponseCode>
            <ISO>01</ISO>
            <AuthCode>996941</AuthCode>
            <TransTime>16:14:44</TransTime>
```

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```
<TransDate>2014-04-28</TransDate>
           <TransType>02</TransType>
           <Complete>true</Complete>
                                                            =: Level 2/3 message have been s
           <Message>APPROVED
tored in database.</Message>
           <TransAmount>1.00</TransAmount>
           <CardType>V</CardType>
           <TransID>97634-1 9</TransID>
           <TimedOut>false</TimedOut>
           <BankTotals>null</BankTotals>
           <Ticket>null</Ticket>
           <CorporateCard>true</CorporateCard>
           <MessageId>1A4118584849702/MessageId>
       </receipt>
   </response>
   <response>
       <orig_request>
           <request>
               <store id>moneris</store id>
               <batch 123ind refund>
                   <order id>NQA 20140428 1</order id>
                   <cust_id>custid123</cust_id>
                   <amount>1.00</amount>
                   <pan>4242****5454</pan>
                   <expdate>1512</expdate>
                   <crypt type>7</crypt_type>
                   <addendum1>
                       <customer code>customer code
                       <discount_amount>1.12</discount amount>
                       <freight amount>2.23</freight amount>
                       <duty_amount>3.34</duty_amount>
                       <national tax_amount>4.56</national_tax_amount>
                       <other tax amount>5.67</other tax amount>
                       <merchant vat no>merchant vat no/merchant vat no>
                       <customer_vat_no>cus_vat_no</customer_vat_no>
                       <destination zip>M1R 1W4</destination zip>
                       <ship from zip>M6K 2H9</ship from zip>
                   </addendum1>
                   <addendum2>
                       <item description>item description</item description>
                       cproduct_code/product_code>
                       <quantity>12</quantity><unit_cost>1.2345</unit_cost>
                       <ext amount>2.89</ext amount>
                       <uom>EA</uom>
                       <item_discount_amount>6.78</item_discount_amount>
                       <item tax amount>4.32</item tax amount>
                       <item other tax amount>1.94</item other tax amount>
                       <item_other_tax_type>QST</item_other_tax_type>
                   </addendum2>
               </batch 123ind refund>
           </request>
       </orig request>
       <receipt>
           <ReceiptId>NQA 20140428 1/ReceiptId>
           <ReferenceNum>660117310013420280</ReferenceNum>
           <ResponseCode>005</ResponseCode>
           <ISO>01</ISO>
           <AuthCode>010237</AuthCode>
           <TransTime>16:14:45</TransTime>
           <TransDate>2014-04-28</TransDate>
           <TransType>04</TransType>
           <Complete>true</Complete>
                                                            =: Level 2/3 message have been s
           <Message>APPROVED
tored in database. </Message>
           <TransAmount>1.00</TransAmount>
```

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```
<CardType>V</CardType>
            <TransID>97635-0 9</TransID>
            <TimedOut>false</TimedOut>
            <BankTotals>null/BankTotals>
            <Ticket>null</Ticket>
            <CorporateCard>true</CorporateCard>
            <MessageId>1A4118584859712/MessageId>
        </receipt>
    </response>
    <response>
        <orig request>
            <request>
                <store id>moneris</store id>
                <api token>hurgle</api token>
                <batch 123forcepost>
                    <order id>NQA 20140428 3</order id>
                    <cust id>custid123</cust id>
                    <amount>1.00</amount>
                    <pan>4242****5454</pan>
                    <expdate>1512</expdate>
                    <auth code>964734</auth code>
                    <crypt_type>7</crypt_type>
                    <addendum1>
                        <customer code>customer code
                        <discount amount>1.12</discount amount>
                        <freight amount>2.23</freight amount>
                        <duty amount>3.34</duty amount>
                        <national tax amount>4.56</national tax amount>
                        <other_tax_amount>5.67</other_tax_amount>
                        <merchant vat no>merchant vat no/merchant vat no>
                        <customer_vat_no>cus_vat_no</customer_vat_no>
                        <destination_zip>M1R 1W4</destination_zip>
                        <ship from zip>M6K 2H9</ship from zip>
                    </addendum1>
                    <addendum2>
                        <item description>item description</item description>
                        cproduct code/product code>
                        <quantity>12</quantity>
                        <unit cost>1.2345</unit cost>
                        <ext amount>2.89</ext amount>
                        <uom>EA</uom>
                        <item discount amount>6.78</item discount amount>
                        <item tax amount>4.32</item_tax_amount>
                        <item_other_tax_amount>1.94</item_other_tax_amount>
                        <item_other_tax_type>QST</item_other_tax_type>
                    </addendum2>
                </batch 123forcepost>
            </request>
        </orig request>
        <receipt>
            <ReceiptId>NQA 20140428 3/ReceiptId>
            <ReferenceNum>660117310013420290</ReferenceNum>
            <ResponseCode>005</ResponseCode>
            <ISO>01</ISO>
            <AuthCode>964734</AuthCode>
            <TransTime>16:14:46</TransTime>
            <TransDate>2014-04-28</TransDate>
            <TransType>02</TransType>
            <Complete>true</Complete>
            <Message>APPROVED
                                                             =: Level 2/3 message have been s
tored in database. </Message>
            <TransAmount>1.00</TransAmount>
            <CardType>V</CardType>
            <TransID>97636-0 9</TransID>
            <TimedOut>false</TimedOut>
            <BankTotals>null</BankTotals>
```

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2.5 Credential on File

- 2.5.1 About Credential on File Transactions Batch Upload
- 2.5.3 Credential on File Info Object Request Fields

2.5.1 About Credential on File Transactions – Batch Upload

The Credential on File object is used to send cardholder credentials in the following circumstances:

- Whenever a cardholder's credentials are being stored for the first time
- On all subsequent transactions where stored credentials are being used to process a transaction

All Batch Upload transactions involving Purchase, Pre-Authorization and Recurring Billing are considered Credential on File transactions.

Transactions where cardholder credentials are being stored for the first time are not able to be processed using the Batch Upload method.

Before processing Batch Upload Credential on File transactions, you must use another processing method to store the credentials, including the Moneris Gateway API, Moneris Hosted Solutions, or via the Moneris Merchant Resource Center. When using these other methods, you can either perform a financial transaction, or else use the Card Verification transaction to store the cardholder's credentials without charging them.

For more information on processing transactions with the Moneris Gateway API, Hosted Solutions or Merchant Resource Center, please refer to the Moneris Developer Portal at https://developer.moneris.com.

2.5.2 Batch Upload Transactions with Credential on File

The following Batch Upload transaction types are impacted by Credential on File rules:

Purchase with Credential on File
Purchase with Vault and Credential on File
Purchase with Recurring Billing and Credential on File
Pre-Authorization with Credential on File
Pre-Authorization with Vault and Credential on File
Vault Add Credit Card with Credential on File
Vault Update Credit Card with Credential on File

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2.5.3 Credential on File Info Object Request Fields

Credential on File Request Fields

XML Parent Tag

<cof_info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent transactions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

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2.6 Recurring Billing

- 2.6.1 About Recurring Billing Transactions Batch Upload
- 2.6.2 Sending Recurring Transactions
- 2.6.3 Example Batch With Recurring Transactions

2.6.1 About Recurring Billing Transactions – Batch Upload

Recurring Billing transactions are essentially purchase transactions that repeat multiple times, e.g., memberships. When set up as recurring, an additional set of "recur" variables are added to the following transaction types:

```
Purchase (purchase)
Vault Purchase (res_purchase_cc)
```

2.6.2 Sending Recurring Transactions

When uploading a recurring transaction you will need to indicate:

- the recurring amount (as represented by recur_amount),
- · interval (period),
- start date (start date)
- the number of times it will recur (num_recurs).

There is also an option to bill a different amount immediately.

NOTE: When completing the recurring billing portion for a monthly payment, please keep in mind that to prevent the shifting of recur bill dates, avoid setting the start_date for anything past the 28th of any given month. For example, all billing dates set for the 31st of May will shift and bill on the 30th in June and will then bill the cardholder on the 30th for every subsequent month.

2.6.3 Example – Batch With Recurring Transactions

The following sample code illustrates a batch file that includes Purchase transactions with Recurring Billing information, followed by a sample of the corresponding response.

```
<?xml version="1.0"?>
<request>
  <store_id>store1</store_id>
  <api_token>yesguy</api_token>
  <purchase>
  <order_id>464571415531_1</order_id>
  <amount>3.00</amount>
```

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```
<pan>4242424242424242</pan>
  <expdate>0803</expdate>
  <crypt_type>7</crypt_type>
  <recur unit>week</recur unit>
  <start now>true</start now>
  <start date>2011/10/30</start date>
  <num recurs>4</num recurs>
  <period>2</period>
  <recur amount>1.00</recur amount>
  </recur>
  <cof info>
  <payment indicator>R </payment indicator>
  <payment information>2</payment information>
  <issuer id>123456789012345</issuer id>
  </cof info>
  </purchase>
  <purchase>
  <order_id>464571415532_2</order_id>
  <amount>1.00</amount>
  <pan>42424242424242</pan>
  <expdate>0903</expdate>
  <crypt_type>7</crypt_type>
  <recur>
  <recur unit>day</recur unit>
  <start now>false</start now>
  <start date>2011/09/15</start date>
  <num recurs>10</num recurs>
  <period>30</period>
  <recur amount>1.00</recur amount>
  </recur>
  <cof info>
  <payment indicator>R</payment_indicator>
  <payment information>2</payment information>
  <issuer_id>123456789012345</issuer_id>
  </cof info>
  </purchase>
  <purchase>
  <order id>464571415533 3</order id>
  <amount>5.00</amount>
  <pan>4242424242424242</pan>
  <expdate>0703</expdate>
  <crypt type>7</crypt type>
  <recur>
  <recur unit>month</recur unit>
  <start now>true</start now>
  <start date>2011/11/11</start date>
  <num recurs>12</num recurs>
  <period>1</period>
  <recur amount>1.00</recur amount>
  </recur>
  <cof info>
  <payment indicator>R</payment indicator>
  <payment_information>2</payment_information>
  <issuer id>123456789012345</issuer id>
  </cof info>
  </purchase>
  <res purchase cc>
  <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
  <order id>Moneris test Dec20 4</order id>
  <cust id>My Customer Name</cust id>
  <amount>55.00</amount>
  <crypt type>7</crypt type>
  <recur>
  <recur unit>month</recur unit>
<start now>true</start now>
```

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```
<start_date>2011/12/01</start_date>
<num_recurs>12</num_recurs>
<period>1</period>
<recur_amount>1.00</recur_amount>
</recur>
<cof_info>
<payment_indicator>R</payment_indicator>
<payment_information>2</payment_information>
<issuer_id>123456789012345</issuer_id>
</cof_info>
</res_purchase_cc>
</request>
```

Corresponding Example Response - Recurring Transactions

```
<?xml version="1.0"?>
<response>
<receipt>
<ReceiptId>464571415531 1
<ReferenceNum>660021630014070250/ReferenceNum>
<ResponseCode>027</ResponseCode>
<ISO>01</ISO>
<AuthCode>009250</AuthCode>
<TransTime>16:24:34</TransTime>
<TransDate>2006-06-20</TransDate>
<TransType>00</TransType>
<Complete>true</Complete>
<Message>APPROVED * =: Recurring transaction successfully registered./Message>
<TransAmount>3.00</TransAmount>
<CardType>V</CardType>
<TransID>156097-25-0</TransID>
<TimedOut>false</TimedOut>
<BankTotals>null</BankTotals>
<Ticket>null</Ticket>
<RecurSuccess>true</RecurSuccess>
<IssuerId>123456789012345/IssuerId>
</receipt>
<receipt>
<ReceiptId>464571415532 2/ReceiptId>
<ReferenceNum>null</ReferenceNum>
<ResponseCode>null</ResponseCode>
<ISO>null</ISO>
<AuthCode>null</AuthCode>
<TransTime>null</TransTime>
<TransDate>null</TransDate>
<TransType>null</TransType>
<Complete>true</Complete>
<Message>Recurring transaction successfully registered./Message>
<TransAmount>null</TransAmount>
<CardType>null</CardType>
<TransID>null</TransID>
<TimedOut>false</TimedOut>
<BankTotals>null/BankTotals>
<Ticket>null</Ticket>
<RecurSuccess>true</RecurSuccess>
<IssuerId>123456789012345/IssuerId>
</receipt>
<receipt>
<ReceiptId>464571415533 3
<ReferenceNum>660021730013780250</ReferenceNum>
<ResponseCode>027</ResponseCode>
<ISO>01</ISO>
<AuthCode>010212</AuthCode>
<TransTime>16:24:41</TransTime>
```

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```
<TransDate>2006-06-20</TransDate>
<TransType>00</TransType>
<Complete>true</Complete>
<Message>APPROVED * =: Recurring transaction successfully registered./Message>
 <TransAmount>5.00</TransAmount>
<CardType>V</CardType>
<TransID>84119-25-0</TransID>
<TimedOut>false</TimedOut>
 <BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 <RecurSuccess>true</RecurSuccess>
<IssuerId>123456789012345/IssuerId>
</receipt>
<DataKey>RbFbmySFugYNRSmTaN6Gkm08r</DataKey>
<ReceiptId>Moneris_test_Dec20_4</ReceiptId>
 <ReferenceNum>660021820010918800</ReferenceNum>
 <ResponseCode>027</ResponseCode>
<TSO>01</TSO>
 <AuthCode>001945</AuthCode>
<Message>APPROVED * =: Recurring transaction successfully registered./Message>
<TransTime>14:03:53</TransTime>
<TransDate>2010-12-21</TransDate>
 <TransType>00</TransType>
<Complete>true</Complete>
<TransAmount>55.00</TransAmount>
<CardType>M</CardType>
<TransID>966830-0 7</TransID>
<TimedOut>false</TimedOut>
 <CorporateCard>false</CorporateCard>
 <RecurSuccess>true</RecurSuccess>
<ResSuccess>true</ResSuccess>
<PaymentType>cc</PaymentType>
<ResolveData>
<cust_id>My_Customer_Name</cust_id>
<phone>555-800-1122</phone>
 <email>my email@mail.com</email>
<note>I have no note at this time</note>
<expdate>1201</expdate>
<masked pan>5454***5454/masked pan>
<crypt_type>7</crypt_type>
</ResolveData>
<IssuerId>123456789012345/IssuerId>
 </receipt>
</response>
```

2.7 Customer Information

- 2.7.1 About Customer Info Transactions Batch Upload
- 2.7.2 Customer Information (cust_info) Fields
- 2.7.3 Example Transaction with Customer Information
- 2.7.4 Example Transaction with Customer Info and Vault

2.7.1 About Customer Info Transactions – Batch Upload

You can also upload transactions with additional customer information, represented under the <cust_ info> tag,with a Purchase or Pre-Authorization transactions via the XML batch upload.

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Additional customer information includes:

- Billing and shipping information details about the customer such as names, addresses, etc.
- Item information details about the product being purchased
- Other details, such as email or special instructions

When uploading customer information, all of the fields within cust_info must be included.

2.7.2 Customer Information (cust_info) Fields

Billing and Shipping Information

The following table lists the fields related to billing and shipping information. The fields for billing and shipping information, contained in the <billing>
 and <shipping> tags, are identical and therefore are repeated in both tags.

Table 1 Billing and Shipping Information - Transaction with Customer and Order Details

Field Name	Size/Type
first_name	30-character alphanumeric
last_name	30-character alphanumeric
company_name	30-character alphanumeric
address	30-character alphanumeric
city	30-character alphanumeric
province	30-character alphanumeric
postal_code	30-character alphanumeric
country	30-character alphanumeric
phone_number	30-character alphanumeric
fax	30-character alphanumeric
tax1	30-character alphanumeric
tax2	30-character alphanumeric
tax3	30-character alphanumeric
shipping_cost	30-character alphanumeric

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Item Information

NOTE: The fields for item information must all be sent within the <item> XML tag. You may send multiple items — please refer to example below.

Table 2 Item Information – Transaction with Customer and Order Details

Field Name	Size/Type
name	30-character alphanumeric
quantity	10-character numeric
product_code	30-character alphanumeric
extended_amount	9-character decimal

Other Details

Table 3 Other Details – Transaction with Customer and Order Details

Field Name	Size/Type
email	50-character alphanumeric
instructions	50-character alphanumeric

NOTE:

If you send characters that are not included in the allowed list, these extra transaction details may not be stored.

All fields are alphanumeric and allow the following characters: a-z A-Z 0-9 _ - : . @ \$ = /

2.7.3 Example Transaction with Customer Information

The following sample code illustrates a Purchase transaction with all optional fields: cust_id as well as cust_info. All fields within cust_info have been populated and two items have been included.

```
<?xml version="1.0"?>
<request>
<store_id>store1</store_id>
<api_token>yesguy</api_token>
<purchase>
<order_id>Moneris_test_Nov9_custinfo</order_id>
```

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```
<amount>10.00</amount>
 <pan>4242424242424242</pan>
 <expdate>0901</expdate>
 <crypt type>7</crypt type>
 <cust_id>My_Customer_Name</cust_id>
 <cust info>
 <billing>
 <first name>Bob</first name>
 <last_name>Smith</last_name>
 <company name>None</company name>
 <address>101 Main St</address>
 <city>Springfield</city>
 ovince>YU</province>
 <postal code>Z1Z1Z1</postal code>
 <country>CAD</country>
 <phone number>919-555-5555</phone number>
 <fax>919-555-5550</fax>
 <tax1>0.10</tax1>
 <tax2>0.20</tax2>
 <tax3>0.00</tax3>
 <shipping cost>0.00</shipping cost>
 </billing>
 <shipping>
 <first name>Bob</first name>
 <last name>Smith
 <company name>None</company name>
 <address>101 Main St</address>
 <city>Springfield</city>
 ovince>YU
 <postal code>Z1Z1Z1</postal code>
 <country>CAD</country>
 <phone number>919-555-5555</phone_number>
 <fax>919-555-5550</fax>
 <tax1>0.10</tax1>
 < tax2 > 0.20 < / tax2 >
 <tax3>0.00</tax3>
 <shipping cost>0.00</shipping cost>
 </shipping>
 <email>bob@smith.com</email>
 <instructions>Please deliver to back door</instructions>
 <item>
 <name>Red Shoes</name>
 <quantity>1</quantity>
  cproduct_code>shoes_101
 <extended_amount>1.00</extended_amount>
 </item>
 <item>
 <name>Blue Suede Shoes</name>
 <quantity>10</quantity>
 cproduct code>shoes 102/product code>
 <extended amount>3.00</extended amount>
 </item>
 </cust info>
 <cof info>
 <payment_indicator>U</payment_indicator>
 <payment_information>2</payment information>
 <issuer_id>123456789012345</issuer_id>
 </cof info>
 </purchase>
 </request>
```

Corresponding Response Example - Transaction with Customer Information

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```
<?xml version="1.0"?>
 <response>
 <receipt>
 <ReceiptId>Moneris test Nov9 custinfo</ReceiptId>
 <ReferenceNum>64000030010120330</ReferenceNum>
 <ResponseCode>001</ResponseCode>
 <ISO></ISO>
 <AuthCode>756311</AuthCode>
 <TransTime>18:55:17</TransTime>
 <TransDate>2006-11-09</TransDate>
 <TransType>00</TransType>
 <Complete>true</Complete>
 <Message> APPROVED * =</Message>
 <TransAmount>10.42</TransAmount>
 <CardType>V</CardType>
 <TransID>1297-0-1</TransID>
 <TimedOut>false</TimedOut>
 <BankTotals>null</BankTotals>
 <Ticket>null</Ticket>
 <issuerId>123456789012345</issuerId>
 </receipt>
</response>
```

2.7.4 Example Transaction with Customer Info and Vault

The following sample code illustrates a batch Purchase request with two transaction types (one basic transaction and one using Vault) with customer information, followed by the corresponding response example.

```
<?xml version="1.0"?>
<request>
<store id>store1</store id>
<api token>yesguy</api token>
<purchase>
<order_id>Moneris_test_Nov9_custinfo</order_id>
<amount>10.00</amount>
<pan>42424242424242</pan>
<expdate>0901</expdate>
<crypt type>7</crypt type>
<cust id>My Customer Name</cust id>
<cust info>
<billing>
<first name>Bob</first name>
<last name>Smith
<company name>None</company_name>
<address>101 Main St</address>
<city>Springfield</city>
ovince>YU
<postal code>Z1Z1Z1</postal_code>
<country>CAD</country>
<phone number>919-555-5555</phone_number>
<fax>919-555-5550</fax>
<tax1>0.10</tax1>
<tax2>0.20</tax2>
<tax3>0.00</tax3>
<shipping cost>0.00</shipping cost>
</billing>
<shipping>
<first name>Bob</first name>
<last name>Smith
<company_name>None</company_name>
<address>101 Main St</address>
```

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```
<city>Springfield</city>
  vince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
  <phone number>919-555-555</phone number>
  <fax>919-555-5550</fax>
  <tax1>0.10</tax1>
  <tax2>0.20</tax2>
  <tax3>0.00</tax3>
  <shipping cost>0.00</shipping cost>
  </shipping>
  <email>bob@smith.com</email>
  <instructions>Please deliver to back door</instructions>
  <name>Red Shoes</name>
  <quantity>1</quantity>
  cproduct code>shoes 101
  <extended_amount>1.00</extended_amount>
  </item>
  <item>
  <name>Blue Suede Shoes</name>
  <quantity>10</quantity>
  cproduct code>shoes 102/product code>
  <extended amount>3.00</extended amount>
  </item>
  </cust info>
  <cof info>
  <payment_indicator>U</payment_indicator>
  <payment_information>2</payment_information>
  <issuer id>123456789012345</issuer id>
  </cof info>
  </purchase>
  <res purchase cc>
  <data_key>RbFbmySFugYNRSmTaN6Gkm08r</data_key>
  <order_id>Moneris_test_Dec20_6</order_id>
  <cust id>My Customer Name</cust id>
  <amount>55.00</amount>
  <crypt type>7</crypt_type>
  <cust info>
  <billing>
  <first name>Bob</first name>
  <last name>Smith
  <company_name>None</company_name>
  <address>101 Main St</address>
  <city>Springfield</city>
  ovince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
  <phone number>919-555-555</phone number>
  <fax>919-555-5550</fax>
  <tax1>0.10</tax1>
  <tax2>0.20</tax2>
  <tax3>0.00</tax3>
  <shipping_cost>0.00</shipping cost>
  </billing>
  <shipping>
  <first_name>Bob</first_name>
  <last name>Smith
  <company name>None</company name>
  <address>101 Main St</address>
  <city>Springfield</city>
  vince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
<phone number>919-555-555</phone number>
```

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```
<fax>919-555-5550</fax>
 < tax1 > 0.10 < / tax1 >
 <tax2>0.20</tax2>
 <tax3>0.00</tax3>
 <shipping_cost>0.00</shipping_cost>
 </shipping>
 <email>bob@smith.com</email>
 <instructions>Please deliver to back door</instructions>
 <item>
 <name>Red Shoes</name>
 <quantity>1</quantity>
 cproduct code>shoes 101
 <extended_amount>1.00</extended_amount>
 <item>
 <name>Blue Suede Shoes</name>
 <quantity>10</quantity>
 cproduct code>shoes 102
 <extended amount>3.00</extended_amount>
 </item>
 </cust info>
 <cof_info>
 <payment_indicator>U</payment_indicator>
 <payment information>2</payment information>
 <issuer id>123456789012345</issuer_id>
 </cof info>
 </res purchase cc>
 </reguest>
```

Corresponding Example Response for Transaction with Customer Information and Vault

```
<?xml version="1.0"?>
<response>
<receipt>
<ReceiptId>Moneris test Nov9 custinfo</ReceiptId>
<ReferenceNum>64000030010120330</ReferenceNum>
<ResponseCode>001</ResponseCode>
<ISO></ISO>
<AuthCode>756311</AuthCode>
<TransTime>18:55:17</TransTime>
<TransDate>2006-11-09</TransDate>
<TransType>00</TransType>
<Complete>true</Complete>
<Message> APPROVED * =</Message>
<TransAmount>10.42</TransAmount>
<CardType>V</CardType>
<TransID>1297-0-1</TransID>
<TimedOut>false</TimedOut>
<BankTotals>null</BankTotals>
<Ticket>null</Ticket>
<issuerId>123456789012345</issuerId>
</receipt>
<receipt>
<DataKey>RbFbmySFugYNRSmTaN6Gkm08r</DataKey>
<ReceiptId>Moneris test Dec20 6</ReceiptId>
<ReferenceNum>660021820010918800</ReferenceNum>
<ResponseCode>027</ResponseCode>
<ISO>01</ISO>
<AuthCode>001945</AuthCode>
<Message>APPROVED * =</Message>
<TransTime>14:03:53</TransTime>
<TransDate>2010-12-21</TransDate>
<TransType>00</TransType>
```

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```
<Complete>true</Complete>
  <TransAmount>55.00</TransAmount>
  <CardType>M</CardType>
  <TransID>966830-0_7</TransID>
  <TimedOut>false</TimedOut>
  <CorporateCard>false</CorporateCard>
  <RecurSuccess>false</RecurSuccess>
  <ResSuccess>true</ResSuccess>
  <PaymentType>cc</PaymentType>
  <ResolveData>
  <cust id>My Customer Name</cust id>
  <phone>555-800-1122</phone>
  <email>my email@mail.com</email>
  <note>I have no note at this time</note>
  <expdate>1201</expdate>
  <avs_street_number>1</avs_street_number>
  <avs street name>main st</avs street name>
  <avs_zipcode>123456</avs_zipcode>
  <crypt_type>7</crypt_type>
  </ResolveData>
  <issuerId>123456789012345</issuerId>
  </receipt>
 </response>
```

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3 Sending Transactions and Receiving Responses

- 3.1 Creating a Batch File
- 1 Sending Transaction Requests

A batch upload transaction actually consists of two parts:

- 1. Sending the transaction request to the Moneris Gateway, contained in a batch .xml file, and
- 2. Receiving the transaction response from the Moneris Gateway, contained in a response file.

You send transaction files and receive their responses using SFTP, and so before you start sending transactions or receiving their responses you need to configure your SFTP client.

To learn more about configuring your SFTP client, see "Configuring SFTP Client: What Do I Need to Do First?" on page 101.

3.1 Creating a Batch File

When you are creating a file for batch upload, it must follow these standards:

- The file name must be alphanumeric
- It cannot contain any spaces
- The extension must be .xml, and
- It must be lowercase

File names that do not meet these requirements will not be processed.

Batch files can contain multiple transaction types. For information about the transaction types in Batch Upload, see 2 Transaction Types and Transaction Process Flows.

Batch files that contain Level 2/3 transactions must be sent in a different batch file than non-Level 2/3 transactions, using the filename extension .123.xml.

3.2 XML Structure of Batch Transaction Requests

Batch Upload transaction requests are structured with a <request> root tag, followed by its immediate children:

```
<store_id>
this is your Moneris Store ID
<api_token>
this is the API token generated when you create your Store ID
<[transaction type]>
```

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this is the transaction request you are sending, e.g., Purchase, Pre-Authorization, etc. Each transaction type has its own sub-children (the transaction variables).

The Batch Upload XML request structure looks like this:

This structure is slightly modified when sending Level 2/3 requests. For information about XML structure of Level 2/3 transactions, see 3.2.1 XML Structure of Level 2/3 Transaction Requests.

3.2.1 XML Structure of Level 2/3 Transaction Requests

Level 2/3 transactions have a similar XML structure as other transactions, however, the <request> is encapsulated by a <123_batch> root tag, as shown below. Level 2/3 transactions include two child tags, <addendum1> and <addendum2>, which contain variables for Level 2 and Level 3, respectively.

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</request>
</123_batch>

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4 Connecting to the Moneris Gateway to Upload Files

• 4.1 Configuring SFTP Client: What Do I Need to Do First?

Once you have created a batch file, you need to connect to the Moneris Gateway to upload the file. This is done using a file transfer client that supports Secure File Transfer Protocol (SFTP). Transactions in both the testing and production environments are sent using a SFTP client of your choice.

4.1 Configuring SFTP Client: What Do I Need to Do First?

To send transactions, use the following credentials in your SFTP client to connect to the Moneris Gateway and log in.

	In the Test Environment	In the Production Environment
Host	gwutilstest.moneris.com	gwutils.moneris.com
Port	22	22
Server Type	SFTP using SSH2	SFTP using SSH2
Username	store3	Provided by Moneris (please refer to NOTE)
Password	store3	Provided by Moneris (please refer to NOTE)

NOTE:

To get your test and/or production SFTP username and password, please contact Moneris customer service at:

email: onlinepayments@moneris.com or call 1-866-319-7450

You will be asked for your merchant name, merchant number and store ID.

Once you are connected and logged in to the Moneris Gateway, you are ready to upload files for either testing or production purposes.

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To learn more on this subject, see also:

5 Uploading a Batch File and Getting the Response

7 Moving to Production

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5 Uploading a Batch File and Getting the Response

• 1 What Is Contained in a Transaction Response File?

When uploading a file it must be put in your default root directory. Do not put it in the processing directory, as it will not get processed.

When a file is complete the response file will be put in the /out folder. The filename will be identical to what was uploaded but will be appended with the extension ".out", as shown in the following table.

Table 1 Example of Request and Response Filename Usage

Request File	Response File
testing_june_20.xml	testing_june_20.xml.out

5.1 Determining Whether a Transaction Was Successful

To determine whether a transaction is successful or not, the field that must be checked is **ResponseCode**. See the table below to determine the transaction result.

Response Code	Result
0 – 49 (inclusive)	Approved
50 – 999 (inclusive)	Declined
null	Incomplete

For a full list of response codes and the associated message please refer to https://developer-moneris.com/More/Testing/Financial%20Response%20Codes.

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6 Testing Your Batch Upload Solution

A testing environment is available for you to connect to while you are testing your batch upload solution. The test environment is generally available 24/7, however we cannot guarantee 100% availability.

NOTE: Please be aware that other merchants are using the test environment so you may see batch files that you did not create. As a courtesy to others that are testing, we ask that when you are processing refunds, deleting files and/or other functions that you use only the transactions/files that you created.

To upload .xml batch files to the test environment, first you must enter the correct credentials in your SFTP client as described in 4.1 Configuring SFTP Client: What Do I Need to Do First?

To verify that these transactions have been properly received and processed, please refer to the .out file as well as logging into the Merchant Resource Center to view reports of your transactions.

To access the Merchant Resource Center in the test environment go to https://esqa.moneris.com/mpg and use the login credentials provided in the table below.

EXAMPLE: If you have uploaded the batch file to store3, please log into the Merchant Resource Center into store3 to locate your transactions.

NOTE: These test store IDs, API tokens, usernames and passwords are different than the credentials you use in the production environment.

Table 1 Test IDs

Store ID	API token	Username	Password
store1	yesguy	DemoUser	password
store2	yesguy	DemoUser	password
store3	yesguy	DemoUser	password

When testing you may use the following test card numbers with any future expiry date or track2 data for Mag Swipe test transactions. Since this is a testing environment, please do not use any production cards or swipe any production cards for track2 data.

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Table 2 Test Card Numbers

Card Plan	Test Card Number
MasterCard	54545454545454
Visa	42424242424242
Amex	373599005095005
Diners	36462462742008
Track2 (Mag Swipe)	;5258984987184986=06061016091001060602?

The test environment has been designed to replicate our production environment as closely as possible. One major difference is that we are unable to send test transactions onto the production authorization network and thus Issuer responses are simulated. Additionally, the requirement to emulate approval, decline and error situations dictates that we use certain transaction variables to initiate various response and error situations.

The test environment will approve and decline transactions based on the penny value of the amount field.

EXAMPLE

a transaction made for the amount of \$399.00 or \$1.00 will approve since the .00 penny value is set to approve in the test environment. Transactions in the test environment should not exceed \$1000.00. This limit does not exist in the production environment.

For a list of all current test environment responses for various penny values, please see the Test Environment Penny Response table available at https://developer-nmoneris.com/More/Testing/Penny%20Value%20Simulator.

6.1 Test Store Credentials

For testing purposes, you can either use the pre-existing test stores with the corresponding test API tokens, or you can create your own unique test API token and a unique test store where you will only see your own transactions. If you want to use pre-existing stores, use the test credentials provided in the following tables.

NOTE: For testing Batch Upload Level 2/3 transactions, use store2 only.

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Table 1: Test Server Credentials - Canada

Store ID	API Token	MRC Username	MRC Password
store1	yesguy	demouser	password
store2	yesguy	demouser	password
store3	yesguy	demouser	password
store4	yesguy	demouser	password
store5	yesguy	demouser	password

Alternatively, you can create and use a unique test store where you will only see your own transactions. For more on this, see 1 Getting a Unique Test Store ID and API Token.

6.2 Test Card Numbers

Because of security and compliance reasons, the use of live credit and debit card numbers for testing is strictly prohibited. Only test credit and debit card numbers are to be used.

To test general transactions, use the following test card numbers:

Card Plan	Test Card Number
Mastercard	54545454545454
Visa	42424242424242
Amex	373599005095005
JCB	3566007770015365
Diners	36462462742008
Track2	5258968987035454=06061015454001060101?
Discover	6011000992927602
UnionPay	6250944000000771

6.3 Test Card Numbers for Level 2/3

When testing Level 2/3 transactions, use the card numbers below.

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Card Brand	Test Card Number
Mastercard	5454545442424242
Visa	42424254545454
Amex	373269005095005

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7 Moving to Production

• 1 How Do I Activate My Store?

Once you have completed the necessary development and testing, you are ready to move your solution into production.

The process of sending transaction requests and receiving the responses is nearly identical in production as it is in testing. To review the primary steps in the batch upload process again, see "Implementing Your Batch Upload Solution" on page 7.

To start processing live transactions, you need to activate your production store.

NOTE:

To receive your Production SFTP Username and Password, please call Moneris at 1-866-319-7450

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Appendix A Definition of Request Fields

Table 1 Definition of Request Fields – Basic and Mag Swipe Transactions

Table 1 Definition of Request Fields – Basic and Mag Swipe Transactions			
Variable Name	Type and Limits	Description	
Amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Amount of the transaction. This must contain at least 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 999999.99	
Credit card number pan	String 20-character numeric	Credit Card Number with no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration of future expansion and/or potential support of private label card ranges.	
Customer ID cust_id (optional)	String 50-character alphanumeric	This is an optional field that can be sent as part of a Purchase or Pre-Authorization request. It is searchable from theMerchant Resource Center. It is commonly used for policy number, membership number, student ID or invoice number.	
E-commerce indicator crypt_type	String 1-character alphanumeric	E-commerce Indicator possible values: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order -	

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Variable Name	Type and Limits	Description
Expiry date expdate	String 4-character numeric	Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant Expiry Date - format YYMM no spaces or slashes. NOTE: This is reversed from the date format displayed on the physical card, MMYY.
Order ID order_id	String 50-character alphanumeric	Merchant defined unique transaction identifier — must be unique for every purchase, preauth and ind_refund attempt. For refund, completion and purchasecorrection, the order_id must reference the original transaction. Characters allowed: a-z A-Z 0-9:. @ spaces NOTE: This variable also has field definition information exclusive to Vault. For more information, see the table Definitions of Required Fields - Vault Transactions.
POS Code pos_code	String 2-character numeric	Under normal presentment situations the value should be '00'. If the solution is not "merchant and cardholder present" please call the support desk and we will provide the proper POS code.

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Variable Name	Type and Limits	Description
shipping indicator ship_indicator	String 1-character alphanumeric	Used to identify completion transactions that require multiple shipments, also referred to as multiple completions
		By default, if shipping indicator is not sent, the Pre-Authorization Completion is listed as final
		To indicate that the Pre-Authorization Completion is to be left open by the issuer as supplemental shipments or completions are pending, submit shipping indicator with a value of P
		Possible values:
		P – Partial
		F – Final
Track 2 track2	String	This is a string that is retrieved from the mag swipe of a credit card by swiping the credit card through a card reader. It is part of a mag swipe/track2 transaction.
Transaction number	String	Used when performing follow
txn_number	255-character alphanumeric	on transactions — this must be filled with the value that was returned as the txn_number in the response of the original transaction.
		When performing a Pre- Authorization Completion this must reference the Pre-Author- ization. When performing a Refund or a Purchase Cor- rection this must reference the Pre-Authorization Completion or the Purchase.

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A.1 Definition of Request Fields – Credential on File

Credential on File Request Fields

XML Parent Tag

<cof info>

Credential on File request fields below are children of the <cof_info> tag.

Variable Name	Type and Limits	Description
Issuer ID issuer_id NOTE: This variable is required for all merchant-intiated transactions following the first one; upon sending the first transaction, the Issuer ID value is received in the transaction response and then used in subsequent transaction requests (Issuer ID does not apply for Discover or Union Pay).	String 15-character alphanumeric, variable	Unique identifier for the cardholder's stored credentials Sent back in the response from the card brand when processing a transaction If the cardholder's credentials are being stored for the first time, you must use the Moneris Gateway API, Hosted Solutions, or the Merchant Resource Center to process the first transaction; only subsequent transactions can be carried out using Batch Upload.
Payment Indicator payment_indicator	String 1-character alphabetic	Indicates the intended or current use of the credentials Possible values for subsequent transactions: R - recurring U - unscheduled merchant-initiated transaction Z - unscheduled cardholder-initiated transaction
Payment Information payment_information	String 1-character numeric	Describes whether the transaction is the first or subsequent in the series Possible value: 2 - subsequent transactions (using previously stored payment details)

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A.2 Definition of Request Fields – Level 2

Level 2 field information is contained in the object <addendum1>

Variable Name	Type and Limits	Description
Customer code customer_code	String 40-character alphanumeric	A control number, such as purchase order number, project number, department allocation number or name supplied by the customer
Discount amount discount_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Monetary amount of discount on the transaction
Freight amount freight_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Shipping cost on the transaction
Duty amount duty_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Applicable amount of duty charged on the transaction
National tax amount national_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point	Amount of federal-level taxes charged on the transaction, e.g., GST or HST

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Variable Name	Type and Limits	Description
	EXAMPLE: 123456.78	
Other tax amount other_tax_amount	9-character decimal. Up to 6-character numeric + 2-character numeric after the decimal point EXAMPLE: 123456.78	Provincial tax amount charged on the transaction, e.g., PST or QST
Merchant VAT number merchant_vat_no	String 15-character alphanumeric	Your GST registration number
Customer VAT number customer_vat_no	String 13-character alphanumeric	The customer's GST registration number
Destination postal code destination_zip	String 10-character alphanumeric	Postal code of the destination of goods
Ship from postal code ship_from_zip	String 10-character alphanumeric	Postal code of the shipping location

A.3 Definition of Request Fields – Level 3

Level 3 field information is contained in the object <addendum2>, an optional nested request object for Level 2/3 transactions.

NOTE: For Level 3 fields sent over the batch method, there is a limit of 98 items per transaction.

Variable Name	Type and Limits	Description
Item description	String	Description of item; length allowed may differ by card brand

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Variable Name	Type and Limits	Description
item_description	40-character alphanumeric	
Product code	String	UPC or product code of an item
product_code	12-character alphanumeric	
Quantity quantity	String (missing or bad snippet)	Quantity of units of a particular item being purchased
Unit cost unit_cost	String (missing or bad snippet)	Unit cost of an item
Total cost ext_amount	String (missing or bad snippet)	Total cost of a particular item being purchased (quantity X unit cost)
Unit of measure	String 12-character alphanumeric	Unit of measure used for the item being purchased, as in common use for international trade
Item discount amount item_discount_amount	String (missing or bad snippet)	Dollar amount of discount applied to total cost of item
Item tax amount item_tax_amount	String (missing or bad snippet)	Dollar amount of national-level tax charged on item; for Canada, this is GST or HST.
Item other tax amount item_other_tax_amount	String (missing or bad snippet)	Dollar amount of any other taxes applied to the item purchased
Item other tax type item_other_tax_type	String 4-character alphanumeric	Indicates the type of other tax being applied
		Possible values: PST - Provincial Sales Tax
		QST - Quebec Sales Tax (or other)

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Appendix B Definition of Response Fields

Variable Name	Size/Type	Description
AuthCode	8-character numeric	Authorization code returned from the issuing institution
CardType	2-character alphanumeric	Card Type M = MasterCard V = Visa AX = American Express DC = Diners Card NO = Novus / Discover SE = Sears
Complete	true/false	Transaction was sent to authorization host and a response was received
IssuerId	15-character numeric	Credential on File response cor- responding to the Issuer ID request vari- able
Message	100-character alpha- numeric	Response description returned from issuing institution.
ReceiptId	50-character alphanumeric	order_id specified in request
RecurSuccess	true/false	Indicates whether the transaction successfully registered
ReferenceNum	18-character numeric	The reference number is an 18 character string that references the terminal used to process the transaction as well as the shift, batch and sequence number. This data is typically used to reference transactions on the host systems and must be displayed on any receipt presented to the customer. This information should be stored by the merchant.

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Variable Name	Size/Type	Description
		illustrates the breakdown of this field where "640123450010690030" is the reference number returned in the message, "64012345" is the terminal id, "001" is the shift number, "069" is the batch number and "003" is the transaction number within the batch. Moneris Host Transaction identifier.
ResponseCode	3-character numeric	Transaction Response Code < 50: Transaction approved >= 50: Transaction declined NULL: Transaction was not sent for authorization If you would like further details on the response codes that are returned please see the Response Codes document available on the Moneris Developer Portal at https://developermoneris.com
Ticket	n/a	reserved
TimedOut	true/false	Transaction failed due to a process timing out
TransAmount		
TransDate	yyyy-mm-dd	Processing host date stamp
TransID	20-character alphanumeric	Gateway Transaction identifier
TransTime	hh:mm:ss (24 hour clock)	Processing host time stamp
TransType	2-character numeric	Type of transaction that was performed 00 = Purchase, Purchase with Vault 01 = Pre-Authorization, Pre-Authorization with Vault

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Variable Name	Size/Type	Description
		02 = Pre-Authorization Completion
		04 = Refund, Independent Refund, Vault CC
		11 = Purchase Correction

B.1 Definition of Response Fields – Vault

Variable Name	Type and Limits	Description
ReceiptId	50-character alphanumeric	order_id specified in request
[reserved]	n/a	Future use
ResponseCode	3-character numeric	Transaction Response Code < 50: Transaction approved >= 50: Transaction declined Vault Admin Responses: 001 Successfully registered CC details. Successfully deleted CC details. 983 Can not find previous 986 Incomplete: timed out 987 Invalid transaction Null Error: Malformed XML
TransTime	hh:mm:ss (24 hour clock)	Processing host time stamp
TransDate	yyyy-mm-dd	Processing host date stamp
Complete	true/false	Transaction was sent to authorization host and a response was received
TimedOut	true/false	Transaction failed due to a process timing out
DataKey	50-character alphanumeric	The data_key specified in request. Or, in the case of a res_add_cc transaction it will specify the data_key created by

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Variable Name	Type and Limits	Description
		Moneris Solutions
payment_type	3-character alphanumeric	Indicates the payment type associated with the Vault profile. Possible values: cc – credit card profile
cust_id	50-character alphanumeric	The value stored in the vault, it will be blank if no data is stored.
phone	30-character alphanumeric	The value stored in the vault, it will be blank if no data is stored.
email	30-character alphanumeric	The value stored in the vault, it will be blank if no data is stored.
note	30-character alphanumeric	The value stored in the vault, it will be blank if no data is stored.
pan	alphanumeric	The first 4 and last 4 digits of the credit card number
exp_date	4-character numeric	The credit card expiry date
crypt_type	1-character alphanumeric	The e-commerce indicator

B.2 Definitions of Response Fields – Level 2/3

Variable Name	Type and Limits	Description
AuthCode	8-character alphanumeric	Authorization code returned from the issuing institution
BankTotals	n/a	reserved for future use
CardType	2-character alphanumeric	Credit Card Type M = MasterCard

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Variable Name	Type and Limits	Description
		V = Visa
		AX = American Express
Complete	true/false	Transaction was sent to authorization host and a response was received
CorporateCard	true/false	States whether the card is corporate or not
ISO	2-character numeric	ISO response code
Message	100-character alpha- numeric	Response description returned from issuing institution
MessageId	20-character alphanumeric	Processing Host indicator. Reserved.
orig_request	echo	Everything contained in request root of request batch file is echoed back. All fields except pan follows the same format as shown in the request fields definition. pan field will be masked and you will receive only first 4 and last 4 digits of the card.
ReceiptId	50-character alphanumeric	order_id specified in request
ReferenceNum	18-character numeric	The reference number is an 18 character string that references the terminal used to process the transaction as well as the shift, batch and sequence number, This data is typically used to reference transactions on the host systems and must be displayed on any receipt presented to the customer. This information should be stored by the merchant. The following illustrates the breakdown of this field where "660123450010690030" is the reference number returned in the message, "66012345" is the terminal id, "001" is the shift number, "069" is the batch number and "003" is the transaction number within the batch.
		Moneris Host Transaction identifier.

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Variable Name	Type and Limits	Description
ResponseCode	3-character numeric	Transaction Response Code < 50: Transaction approved >= 50: Transaction declined NULL: Transaction was not sent for authorization NOTE: If you would like further details on the response codes that are returned please see the Response Codes document available at https://developermoneris.com .

Ticket	n/a	reserved for future use
TimedOut	true/false	Transaction failed due to a process timing out
TransAmount	14-character decimal	Amount the transaction is processed for
TransDate	yyyy-mm-dd	Processing host date stamp
TransID	20-character alphanumeric	Gateway Transaction identifier. This field is referred in follow-on transaction as txn_number.
TransTime	hh:mm:ss (24 hour clock)	Processing host time stamp
TransType	alphanumeric	Type of transaction that was per- formed 00 = Purchase 01 = Preau- thorization 02 = Forcepost / Capture 04 = Refund, Independent Refund 11 = Void

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Appendix C Response Codes

Approved Response Codes

Response Code	Messages
000	Approved, Account Balances Included (Balance Inquiry), No Reason to Decline Approved (Balances) File Processed/Successful transaction with fault
001	Approved, Account Balances Not Included Approved – No Balances/Approved or completed successfully VIP Approved (No Balances)/Advice Acknowledged – Financial Liability Accepted
002	Approved, country club
003	Approved, maybe more ID
004	Approved, pending ID (sign paper draft)
005	Approved, blind
006	Approved, VIP
007	Approved, administrative transaction
008	Approved, national NEG file hit OK
009	Approved, commercial
010	Approved for partial amount
023	Amex - credit approval
024	Amex 77 - credit approval
027	Transaction already reversed

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Response Code	Messages
028	VIP Credit Approved
029	Credit Response Acknowledgement
900	Global Error
901	Invalid URL
902	Malformed XML

Declined Response Codes

Response Code	Messages
050	Do Not Honor
	Decline
	Refer to card issuer
	ID certification fails
	Deny – Do not Honour
	Card not initialized
	Declined:
	Deny – Unacceptable Fee
	Unable to locate original transaction
	Suspected Fraud
	Deny – Card Acceptor Call Acquirer's Security Dep
	Amount Not Reconciled – Totals Provided
	ATM/POS terminal number cannot be located
	MAC failed
	Declined:
	MAC failed
	Reserved
	Security processing failure
	No arrears (transaction receipt not printed)

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Response Code	Messages
	Invalid File Type
	No such File
	File Locked
	Unsuccessful
	Incorrect File Length
	File Decompression Error
	File Name Error
	File cannot be received
	Deny – Do Not Honour
051	Expired Card
052	PIN retries exceeded
	PIN try limit exceeded
	Allowable number of PIN tries exceeded
053	No sharing
054	No security module
055	Invalid transaction
056	No Support/Transaction Not Permitted to Acquirer
	Tran Not Supported by FI/Not Supported by Receiver
057	Lost or stolen card
058	Invalid status
059	Deny (Keep Card) – Restricted Card
	Restricted Card
060	No Chequing account
	No Savings Account
061	No PBF

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Response Code	Messages
062	PBF update error
063	Invalid authorization type
064	Bad Track 2
065	Adjustment not allowed
066	Invalid credit card advance increment
067	Invalid transaction date
068	PTLF error
069	Bad Message Error/No CVM Results
	Bad message – edit error/Format error
070	No IDF
	Invalid Issuer
	Invalid Issuer/Deny – Issuer/Bank Not Found
071	Invalid route authorization
	Unable to route/Financial institution or intermediate network facility cannot be found for routing
	Invalid Rout to Auth /Incorrect IIN
072	Card on National NEG file
073	Invalid route service (destination)
074	Unable to authorize
	Re-enter Transaction
	Transaction Cannot be Completed
	Deny – Security Violation Deny – Violation of Law
	System problem - ask cardholder to insert card in chip card reader
	Merchant Link not logged on (Network Management Logon required)
075	Invalid PAN length

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Response Code	Messages
076	Low funds
077	Pre-auth full
078	Duplicate transaction
	Duplicate transaction/Request in progress
079	Maximum online refund reached
080	Maximum offline refund reached
081	Maximum credit per refund reached
082	Number of times used exceeded
083	Maximum refund credit reached
084	Duplicate transaction - authorization number has already been corrected by host
085	Inquiry not allowed
086	Over floor limit
087	Maximum number of refund credit by retailer
088	Place call
089	CAF status inactive or closed
090	Referral file full
091	NEG file problem
092	Advance less than minimum
093	Delinquent
094	Over table limit
095	Amount over maximum
	Amt Over Max/Transaction amount limit exceeded
096	PIN required

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Response Code	Messages
097	Mod 10 check failure
098	Force Post
099	Bad PBF

Referral Response Codes

Response Code	Messages
100	Unable to process transaction
	Invalid Request. Contact Moneris Client POS Certification for repeat declines.
	Network Unavailable
	System Malfunction
101	Place call
102	Refer – Call
	Expired Card
	Card Acceptor Contact
	Call Card Accpt Acq Secur
103	NEG file problem
104	CAF problem
105	Card not supported
106	Amount over maximum
107	Over daily limit
108	CAF Problem
109	Advance less than minimum
110	Number of times used exceeded
111	Delinquent

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Response Code	Messages
112	Over table limit
113	Timeout
115	PTLF error
121	Administration file problem
122	Unable to validate PIN: security module down

System Error Response Codes

Response Code	Messages
150	Invalid Service Code/Merchant
	Merchant Not On File
	Merchant Not on File/Invalid Merchant
200	Invalid account
	Invalid Card Number
	Invalid Account/Deny – No Account Type Requested
201	Incorrect PIN
	Invalid PIN/Incorrect personal identification number
	PIN Block Error
202	Advance less than minimum
203	Administrative card needed
204	Amount over maximum
205	Invalid Advance Amount
	Original Amnt Incorrect
	Bad message/Invalid Amount
	Original transaction amount error
206	CAF not found

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Response Code	Messages
	Invalid "to" account
	Invalid "from" account
	Invalid account
207	Invalid transaction date
208	Invalid expiration date
209	Invalid transaction code
210	PIN key sync error
212	Destination not available
251	Error on cash amount
252	Debit not supported

American Express Response Codes (Declines)

Response Code	Messages
426	AMEX - Denial 12
427	AMEX - Invalid merchant
429	AMEX - Account error
430	AMEX - Expired card
431	AMEX - Call Amex
434	AMEX - Call 03
	Note: Invalid CVD (CID)
435	AMEX - System down
436	AMEX - Call 05
437	AMEX - Declined
438	AMEX - Declined

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Response Code	Messages
439	AMEX - Service error
440	AMEX - Call Amex
441	AMEX - Amount error

Credit Card Response Codes (Declines)

Response Code	Messages
408	CREDIT CARD - Card use limited - Refer to branch
475	CREDIT CARD - Invalid expiration date
476	CREDIT CARD - Invalid transaction, rejected No Credit Account Invalid transaction/Invalid related transactions Unable to process/Suspected malfunction; related transaction error Unable to Authorize: Cut off is in process Issuer not capable to process Switch system malfunction Issuer response not received by CUPS
477	Unable to Authorize/Illegal Status of Acquirer CREDIT CARD - Refer Call/Invalid Card Number Invalid card number (no such account) Deny - Card Not Found Items not on Bankbook beyond limit, declined/Invalid card number
478	CREDIT CARD - Decline, Pick up card, Call
479	CREDIT CARD - Decline, Pick up card
480	CREDIT CARD - Decline, Pick up card
481	CREDIT CARD - Decline

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Response Code	Messages
	Transaction not allowed to be processed by cardholder Low funds/Insufficient Balance Invalid Transaction Transaction not allowed to be processed by merchant
482	CREDIT CARD - Expired Card
483	CREDIT CARD – Refer/Refer to Issuer Deny – Card Acceptor Contact Acquirer
484	CREDIT CARD - Expired card - refer
485	CREDIT CARD - Not authorized
486	CREDIT CARD - CVV Cryptographic error
487	CREDIT CARD - Invalid CVV
489	CREDIT CARD - Invalid CVV
490	CREDIT CARD - Invalid CVV
492	System problem - ask cardholder to insert card in chip card reader Withdrawal count exceeded

System Decline Response Codes

Response Code	Messages
800	Bad format
801	Bad data
802	Invalid Clerk ID
809	Bad close
810	System timeout
811	System error
821	Bad response length

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Response Code	Messages
877	Invalid PIN block
878	PIN length error
880	Final packet of a multi-packet transaction
881	Intermediate packet of a multi-packet transaction
889	MAC key sync error
898	Bad MAC value
899	Bad sequence number - resend transaction
900	Capture - PIN Tries Exceeded
901	Capture - Expired Card
902	Capture - NEG Capture
903	Capture - CAF Status 3
904	Capture - Advance < Minimum
905	Capture - Num Times Used
906	Capture - Delinquent
907	Capture - Over Limit Table
908	Capture - Amount Over Maximum
	Capture - Capture
	Pick up Card
	Suspected Fraud
	Hard Capture
	Deny – Keep Card:
	Special Conditions
	Expired Card
	Fraud
	Card Acceptor Call Acquirer's

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Response Code	Messages
	Do Not Honour
950	Admin card is not enabled on Merchant profile

Velocity Reject Response Code (Non-RBC Response)

Response Code	Message
959	Decline

Admin Response Codes

Response Code	Messages
960	Initialization Failure - No Match on Merchant ID
961	Initialization Failure - No Match on PED ID
962	Initialization Failure - No match on Printer ID
963	No match on Poll code
964	Initialization Failure - No match on Concentrator ID
965	Invalid software version number
966	Duplicate terminal name
970	Terminal/Clerk table full
983	Clerk Totals Unavailable: selected Clerk IDs do not exist or have zero totals
989	MAC Error on Transaction 95 (Initialization and Handshake), most often, this indicates that the wrong keys have been injected into a device/KMAC Sync Error

EMV Reversal Request Codes

Response Code	Messages
990	Chip card declines a host approved transaction

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Response Code	Messages
991	Chip card removed before ICC communications are completed

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Appendix D Error Messages

Global Error Receipt – You are not connecting to our servers. This can be caused by a firewall or your internet connection.

Response Code = NULL – The response code can be returned as null for a variety of reasons. A majority of the time the explanation is contained within the Message field. When a 'NULL' response is returned it can indicate that the Issuer, the credit card host, or the gateway is unavailable, either because they are offline or you are unable to connect to the internet. A 'NULL' can also be returned when a transaction message is improperly formatted.

Below are error messages that are returned in the Message field of the response.

Message: XML Parse Error in Request: <System specific detail>

Cause: For some reason an improper XML document was sent from the API to the servlet

Message: XML Parse Error in Response: <System specific detail>

Cause: For some reason an improper XML document was sent back from the servlet

Message: Transaction Not Completed Timed Out

Cause: Transaction times out before the host responds to the gateway

Message: Request was not allowed at this time

Cause: The host is disconnected

Message: Could not establish connection with the gateway:

<System specific detail>

Cause: Gateway is not accepting transactions or server does not have proper access to internet

Message: Input/Output Error: <System specific detail>

Cause: Servlet is not running

Message: The transaction was not sent to the host because of a duplicate order id

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Cause: Tried to use an order id which was already in use

Message: The transaction was not sent to the host because of a duplicate order id

Cause: Expiry Date was sent in the wrong format

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Appendix E Complete Batch Upload Request – Example

The following sample code illustrates a complete batch upload transaction request, including Vault and Mag Swipe transactions.

```
<?xml version="1.0"?>
<reguest>
<store id>store3</store id>
<api token>yesguy</api token>
<purchase>
<order id>Moneris test June20</order id>
<amount>1.00</amount>
<pan>4242424242424242</pan>
<expdate>0901</expdate>
<crypt type>7</crypt type>
<cust_id>My_Customer_Name</cust_id>
<cust info>
<billing>
<first_name>Bob</first_name>
<last name>Smith
<company name>None</company name>
<address>101 Main St</address>
<city>Springfield</city>
ovince>YU</province>
<postal code>Z1Z1Z1</postal code>
<country>CAD</country>
<phone number>919-555-555</phone number>
<fax>919-555-5550</fax>
<tax1>0.10</tax1>
<tax2>0.20</tax2>
<tax3>0.00</tax3>
<shipping_cost>0.00</shipping_cost>
</billing>
<shipping>
<first name>Bob</first name>
<last name>Smith
<company name>None</company name>
<address>101 Main St</address>
<city>Springfield</city>
vince>YU</province>
<postal code>Z1Z1Z1</postal code>
<country>CAD</country>
<phone number>919-555-5555</phone number>
<fax>919-555-5550</fax>
<tax1>0.10</tax1>
<tax2>0.20</tax2>
<tax3>0.00</tax3>
<shipping cost>0.00</shipping cost>
</shipping>
<email>bob@smith.com</email>
<instructions>Please deliver to back door</instructions>
<name>Red Shoes</name>
<quantity>1</quantity>
code>shoes_101
<extended amount>1.00</extended_amount>
</item>
</cust_info>
<recur>
<recur unit>month</recur unit>
<start now>true</start now>
```

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```
<start date>2006/12/01</start date>
 <num recurs>1</num recurs>
 <period>1</period>
 <recur amount>1.00</recur amount>
  </recur>
 </purchase>
 <refund>
  <order_id>need_order_id_from_purchasepreauth</order_id>
  <amount>2.00</amount>
  <txn number>4678906-04-01</txn number>
  <crypt type>1</crypt type>
 </refund>
  <preauth>
  <order_id>Moneris_test_june20_2</order_id>
  <amount>15.00</amount>
  <pan>5454545454545454</pan>
  <expdate>0702</expdate>
  <crypt type>2</crypt type>
  <cust id>some cust id</cust id>
  <cust_info>
  <billing>
  <first name>Mary</first name>
  <last name>Smith
 <company name>None</company name>
 <address>101 Main St</address>
 <city>Springfield</city>
 ovince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
  -
<phone_number>919-555-5555</phone_number>
  <fax>919-555-5550</fax>
 <tax1>0.10</tax1>
 < tax2 > 0.20 < / tax2 >
 <tax3>0.00</tax3>
  <shipping cost>0.00</shipping cost>
  </billing>
 <shipping>
 <first name>Bob</first name>
 <last name>Smith
 <company_name>None</company_name>
  <address>101 Main St</address>
  <city>Springfield</city>
  ovince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
  <phone number>919-555-555</phone number>
  <fax>919-555-5550</fax>
  <tax1>0.10</tax1>
  <tax2>0.20</tax2>
  <tax3>0.00</tax3>
  <shipping cost>0.00</shipping cost>
  </shipping>
  <email>mary@smith.com</email>
  <instructions>Please package in wrapping paper</instructions>
  <name>Blue Shoes</name>
 <quantity>2</quantity>
 oduct code>shooes 002/product code>
 <extended amount>10.00</extended amount>
 </item>
 </cust info>
  </preauth>
<completion>
```

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```
<order id>previous order id</order id>
<comp_amount>1.00</comp_amount>
<txn number>195678-03-1/txn number>
<crypt type>1</crypt type>
 </completion>
 <purchasecorrection>
 <order id>some previous order id/order id>
 <txn_number>86435789-67-2</txn_number>
 -
<crypt_type>1</crypt_type>
 </purchasecorrection>
<ind refund>
 <order id>need unique order id/
 <amount>80.00</amount>
 <pan>4242424242424242</pan>
 <expdate>0609</expdate>
 <crypt_type>1</crypt_type>
 <cust_id>my_cust_id</cust_id>
 </ind refund>
 <res_add_cc>
 <order_id>Moneris_test_Dec20_2</order_id>
 <pan>5454545454545454</pan>
 <expdate>1201</expdate>
 <crypt type>7</crypt type>
 <cust id>My Customer Name</cust id>
 <phone>555-800-1122</phone>
 <email>my email@mail.com</email>
 <note>I have no note at this time</note>
 </res_add_cc>
 <res purchase cc>
 <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
 <order_id>Moneris_test_Dec20_6</order_id>
 <cust id>My Customer Name</cust id>
 <amount>55.00</amount>
 <crypt_type>7</crypt_type>
 <cust info>
 <billing>
 <first name>Bob</first name>
 <last name>Smith
 <company name>None</company name>
 <address>101 Main St</address>
 <city>Springfield</city>
 vince>YU
 <postal code>Z1Z1Z1</postal code>
 <country>CAD</country>
 <phone number>919-555-555</phone number>
 <fax>919-555-5550</fax>
 <tax1>0.10</tax1>
<tax2>0.20</tax2>
 <tax3>0.00</tax3>
 <shipping_cost>0.00</shipping_cost>
 </billing>
 <shipping>
 <first_name>Bob</first_name>
 <last name>Smith
 <company name>None</company name>
<address>101 Main St</address>
<city>Springfield</city>
ovince>YU
 <postal code>Z1Z1Z1</postal code>
 <country>CAD</country>
 <phone number>919-555-5555</phone_number>
<fax>919-555-5550</fax>
```

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```
<tax1>0.10</tax1>
  < tax2 > 0.20 < / tax2 >
  <tax3>0.00</tax3>
  <shipping cost>0.00</shipping cost>
  </shipping>
  <email>bob@smith.com</email>
  <instructions>Please deliver to back door</instructions>
  <item>
  <name>Red Shoes</name>
  <quantity>1</quantity>
  cproduct code>shoes 101
  <extended amount>1.00</extended amount>
  </item>
  </cust info>
  <recur>
  <recur unit>month</recur unit>
  <start now>true</start now>
  <start_date>2011/12/01</start_date>
  <num recurs>1</num_recurs>
  <period>1</period>
  <recur amount>1.00</recur amount>
  </recur>
  </res purchase cc>
  <res update cc>
  <order id>Moneris test Dec20 3</order id>
  <data key>XKwBrc6n8sHIJftK1mNf0TFb3</data key>
  <expdate>1212</expdate>
  </res update cc>
  <res update cc>
  <order_id>Moneris_test_Dec20_4</order_id>
  <data key>RbFbmySFugYNRSmTaN6Gkm08r</data_key>
  <pan>5454545454545454</pan>
  <expdate>1201</expdate>
  <crypt_type>7</crypt_type>
  <cust_id>My_Customer_Name</cust_id>
   <phone>555-800-1122</phone>
  <email>my email@mail.com</email>
  <note>I have no note at this time</note>
  </res update cc>
  <res preauth cc>
  <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
  <order_id>Moneris_test_Dec20_7</order_id>
  <cust_id>My_Customer_Name</cust_id>
  <amount>55.00</amount>
  <crypt type>7</crypt type>
  <cust info>
  <billing>
  <first name>Bob</first name>
  <last name>Smith
  <company name>None</company name>
  <address>101 Main St</address>
  <city>Springfield</city>
  ovince>YU
  <postal code>Z1Z1Z1</postal code>
  <country>CAD</country>
  <phone_number>919-555-5555</phone_number>
  <fax>919-555-5550</fax>
  <tax1>0.10</tax1>
  <tax2>0.20</tax2>
  <tax3>0.00</tax3>
  <shipping cost>0.00</shipping cost>
  </billing>
  <shipping>
<first name>Bob</first name>
```

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```
<last name>Smith
 <company name>None</company name>
 <address>101 Main St</address>
 <city>Springfield</city>
 ovince>YU
 <postal code>Z1Z1Z1</postal_code>
 <country>CAD</country>
 <phone number>919-555-555</phone number>
 <fax>919-555-5550</fax>
 <tax1>0.10</tax1>
 <tax2>0.20</tax2>
 <tax3>0.00</tax3>
 <shipping_cost>0.00</shipping_cost>
 <email>bob@smith.com</email>
 <instructions>Please deliver to back door</instructions>
 <name>Red Shoes</name>
 <quantity>1</quantity>
 cproduct code>shoes 101
 <extended amount>1.00</extended amount>
 </item>
 </cust info>
 </res preauth cc>
 <res ind refund cc>
 <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
 <order_id>Moneris_test_Dec20_8</order_id>
 <cust id>My Customer_Name</cust_id>
 <amount>55.00</amount>
 <crypt_type>7</crypt_type>
 </res_ind_refund_cc>
 <res delete>
 <order id>Moneris test Dec20 5</order id>
 <data key>RbFbmySFugYNRSmTaN6Gkm08r</data key>
 </res delete>
 <track2 purchase>
 <order id>track2 testing purch 1</order id>
 <cust id>my cust id</cust id>
 <amount>1.00</amount>
 <track2>;5258984987184986=06061016091001060602?
 <pan></pan>
 <expdate></expdate>
 <pos code>00</pos code>
 </track2 purchase>
 <track2 preauth>
 <order id>track2 testing preauth 1</order id>
 <cust id>my cust id</cust id>
 <amount>25.00</amount>
 <track2>;5258984987184986=06061016091001060602?</track2>
 <pan></pan>
 <expdate></expdate>
 <pos code>00</pos code>
 </track2_preauth>
 <track2 completion>
 <order id>track2testing2</order id>
 <comp amount>1.00</comp amount>
 <txn number>97548-218-0</txn number>
 <pos code>00</pos code>
 </track2 completion>
```

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```
<track2_purchasecorrection>
<order_id>track2testing1</order_id>
<txn number>97547-217-0</txn number>
</track2_purchasecorrection>
<track2 refund>
<order_id>track2_testing_purch_2</order_id>
<amount>1.00</amount>
<txn number>97571-236-0</txn_number>
</track2 refund>
<track2 ind refund>
<order_id>track2_testing_indrefund_1</order_id>
<cust_id>my cust id</cust_id>
<amount>2.00</amount>
<track2>;5258984987184986=06061016091001060602?</track2>
<pan>5454545454545445</pan>
<expdate>0909</expdate>
<pos code>00</pos code>
</track2 ind refund>
</request>
```

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