TRANSACTION CENTRAL™ INTEGRATION GUIDE

Version 3.30
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Contents

Document Change History

Date	Change	Page(s)
11/24/09	Field formatting changes throughout and re-versioned to 3.3	
11/3/09	Corrected the three methods below and re-versioned to 3.2	
10/23/09	Added three new methods: Transaction Detail Report, Transaction Summary Report, and Verify Account.	80, 83, and 85
10/23/09	Re-versioned document to 3.1.	
08/6/09	Re-versioned document to 3.0.	
08/6/09	Removed CreditCardSale.	47
08/6/09	Removed CreditCardVoiceAuthorization.	52
08/6/09	Removed Corporate Purchase Card Transactions and Optional Fields Specified by TransFirst.	42
07/6/09	Various minor corrections scattered throughout the manual.	Various
03/10/09	Updated TrackData field information, re-versioned document to 2.1.	41,44,47,49,52,61
01/23/09	Added subsection B to Section II; updated sections I-VII; released version is 2.0.	All
10/31/08	Added subsection Y to Section V.	72
9/15/08	Updated Section V with reviewer's changes; added new content, comments.	Various
8/14/08	Added new section on HTTPS X-Post Method.	13
8/13/08	Updated and corrected multiple entries in HTTPS Post Method – Merchant Hosted with XML Response section.	30-78
7/31/08	Updated HTTPS Post Method – Merchant Hosted with XML Response - multiple sections.	31-59
7/17/08	Made headers/footers, content consistent in format; updated introductory material; added place holders for new material; deleted ACH w/ Check Verification sections (formerly Q,R,S).	Various
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6/12/08	Added updated Sections, HTTPS Post Merchant Hosted w/ XML Response Sections U-Z .	68-78
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11/8/07	Removed functions (U – Z) from Section V (HTTPS Post-Merchant Hosted with XML Response): explanatory text added to description of "TransID", "RecurringID" and "CreditID" fields.	Various
11/7/07	Removed length restriction from "TransID", "RecurringID" and "CreditID" fields: made changes to "WSDL Language Information" and "Test Account Information" subsections.	Various
9/21/07	Added functions (U – Z) to Section V (HTTPS Post-Merchant Hosted with XML Response): changed key pair contact information: changed "UserDef" to "UsrDef".	40, 58-79, 101-102
5/22/07	Made changes to "Account Name" and "Amount".	90
5/17/07	Removed "Recurring ACH/Credit Card File Load Definitions" function from Section VII (File Upload Method (FTP).	94-95
3/23/07	Added "CC Sale RSP" function to Section V (HTTPS Post-Merchant Hosted with XML Response): added new Description text to "PONumber" fields throughout document.	12, 15, 25, 28, 32, 35-37, 40, 90, 94
2/8/07	Added "Company Name" data field to transaction data to be included in ACH/CC batch file. Released as version 1.2.	87

Date	Change	Page(s)
12/8/06	Made change to RefID field length (was 10, now 50). Released as version 1.1.	19-22, 87, 91
10/19/06	Released as version 1.0.	All

Section I.   General Information

This guide details technical requirements to enable integration of the Transaction Central (TC) payment processing system by providing a variety of method options.

This section provides general information regarding (A) assistance with integration and a disclaimer, (B) available method options, (C) test account and contact information. Subsequent sections describe Transaction Central method options in more detail.

A. Assistance with Integration and Disclaimer

Sample Code Disclaimer

Any available sample code is provided on an "as is" basis, without warranty of any kind, to the fullest extent permitted by law. The main goal of these samples is to show the correct URL address and the valid field data to submit. They are a starting point for development, are supplied for reference purposes only, and are incomplete. They have not been thoroughly tested, and are not intended for production use.

TransFirst does not warrant or guarantee the individual success developers may have in implementing the sample code on their development platforms or in using their own Web server configurations. TransFirst shall not be liable for any direct, indirect, or consequential damages or costs of any type arising out of any action taken by any party related to the sample code.

Note: When coding, ensure the security of the login ID and RegKey whereby they are kept invisible to everyone who browses or views Web page source code.

Contact TransFirst's **Transaction Central (TC) Integrations Group** with comments or questions on these or other issues.

Transaction Central (TC) Integrations Group

For assistance contact the **TC Integrations Group**.

Hours of Operation: Monday through Friday, 7:00 a.m. – 5:00 p.m. Mountain Time

Either:

1) Call **1-888-835-1777 x Option 1 x Option 1 ext 6404**; **OR**

2) Send an Email to **tcintegrations@transfirst.com**

B. Available Methods

This section summarizes various method options available for use in integrating existing payment systems and processes with Transaction Central. More detailed information on each method option is provided in the remaining sections of this document.

HTTPS Post -- TransFirst Hosted

With this method option, credit card sale transactions are entered in an online order entry form developed and hosted by TransFirst. Merchants who have their own web sites, but who do not want to collect the credit card information, can link to this secure online entry form. TransFirst collects and stores the credit card information on secure servers.

X-Post – TransFirst Emulator (currently for Authorize.net version 3.0 & 3.1)

Server Integration Method (SIM)

The server integration method is very similar to the "TFHosted" method of integration. However there are some key differences.

Advanced Integration Method (AIM)

The advanced integration method is very similar to the "HTTPS POST/Merchant Hosted" method of integration. However there are some key differences.

HTTPS Post -- Merchant Hosted with Standard or Email Response

Standard Response

These method options offer expanded transaction options. These include support for sale, void, credit, debit card and ACH transaction types. Transaction data is entered on an online payment form or application developed and hosted outside TransFirst. Transaction data is sent to Transaction Central through an SSL (secure socket layer) connection for processing. Transaction data is collected on secure servers (hosted by the merchant) outside TransFirst. Responses are returned to a designated URL or passed back as a post string.

Email Response

With this method option, credit card sale transactions are entered on online entry order forms developed and hosted outside TransFirst. Used for credit card sales only, this option passes the required transaction values to Transaction Central through an SSL connection. The payment data is sent to Transaction Central via HTTPS Post. Transaction data is collected on secure servers (hosted by the merchant) outside TransFirst. Transaction responses are returned to designated e-mail addresses.

HTTPS Post -- Merchant Hosted with XML Response

This method option, which uses an HTTPS Post web service, also offers expanded transaction options (i.e., support for sale, void, credit, settle, debit card, and ACH transaction types). With this method, payment information is entered on an online order form or application that is developed and hosted outside TransFirst. The client and server use a SOAP XML message to exchange transaction information. This method is a good choice if newer technology (such as Java or Microsoft .Net) is used to call the TransFirst web service.

Batch Uploads via TC Web Application or SFTP Programs

Upload via TC Web Application (Virtual Terminal)

With this method option, the Batch Upload feature in the Transaction Central web application may be used to upload transaction data for processing. This file may contain multiple transactions. Batch files are required to be a comma-delimited text file.

SFTP Programs

This method option uses a secure File Transfer Protocol (SFTP) connection to transfer batch files to Transaction Central over the Internet. These files may be transferred using either an SFTP program (such as "CuteFTP") or a custom program (such as Visual Basic). All batch files transferred in this manner must be encrypted using PGP, and must be formatted appropriately.

TC Web Application (Virtual Terminal)

This method option is the Transaction Central web application (virtual terminal), which is accessed from a Microsoft Internet Explorer browser at https://www.oc2net.net/billing/. This application includes features and online forms for entering credit card or ACH transactions using a keyboard and mouse.

C. Test Account Information

When you are ready to begin integration setup and testing, contact the TransFirst **TC Integrations Group** to obtain any additional documentation or request a test account.

Either:

1) Call **1-888-835-1777 x Option 1 x Option 1 ext 6404**; **OR**

2) Send an Email to **tcintegrations@transfirst.com**

Section II.   HTTPS Post Method – TransFirst Hosted

To use this method, post your TransFirst assigned Merchant ID and RegKey to the TransFirst secure web page. TransFirst will then collect credit card information on its secure servers.

A. Credit Card Sale

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/EnterTransaction.asp?

Fields To Be Sent To TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
RURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	1) URL to redirect after processing transaction
ConfirmPage	Text	1	Alpha (Y or N)	Y = Use Confirmation Page (Response is GET data)
TransType	Text (Uppercase required)	2	Al Alpha (CC, CK, SA, CP)	CC Credit Card CK Check SA Savings CP Corporate Purchase Card (Defaults to CC if blank)
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique order number
Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
**TaxAmount	Currency	8	Numeric (0-9) and .	Amount of sales tax (including decimal point) (NO QUOTES) DO NOT USE $ or ,
TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt
AVSADDR	Text	60	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Billing Address of Card Holder

Field Name	Type	No	Valid Characters	Description
AVSZIP	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4
NameonAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Responses

The following fields are sent back to the Redirect RURL field:

On Failure

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9) or NULL	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Declined
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text description of the failure(s)

On Success

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9) or NULL	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Authorization Code sent back from Processor

B. Credit Card Sale *(With Convenience Fee Support)* – *permitted to Government and municipalities only*

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/EnterSecureTransaction.asp?

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
RURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	1) URL to redirect after processing transaction
*TransType	Text (Uppercase)	2	Alpha (CC, CK)	CC – Credit Card CK – Check
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique order number
Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,
User1 ("Additional Account" field)	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Merchant Populated Field Maps to (Additional Information) (this field is NOT stored in our database)
User2 ("Phone number" field)	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Merchant Populated Field Maps to (Phone Number) (this field is NOT stored in our database)
AVSADDR	Text	60	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Billing Address of Card Holder
AVSZIP	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4
NameonAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card

Responses

The following fields are sent back to the Redirect RURL field:

On Failure

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9) or NULL	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Declined
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text description of the failure(s)
User1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Echo of the value passed
User2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Echo of the value passed

On Success

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9) or NULL	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Authorization Code sent back from Processor
User1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Echo of the value passed
User2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Echo of the value passed

Section III. Donation Central (Single & Recurring Donation Support) – Requires A Billing Central Account

Billing Central allows merchants to have automatically generated invoices, detailed reporting of their clientele base, allows the merchant to create their own list of products/services with pricing to choose from when billing customers, stores all of their clientele information, and allows the merchant to accept either credit cards or ACH payments via the invoicing system.

A. Donation Central

Post these transactions to the following URL:

https://www.oc2net.net/billing/DonationCentral/Select.asp?

This method supports http POST.

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No		Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key

Response

This is the ONLY TransFirst Product (Method), where NO
Returning information is sent to the calling website.

Landing Page

This is your account information

Your Name:	Joe Tester
Phone:	3035551234
E-Mail Address:	foo@bar.local
Product Name:	TEST Product
Amount:	$1
Date to Donate:	1/12/2009 5:06:56 PM
TransID:	143481780
Auth Code:	Declined
Notes:	AR92B/Merchant not on file

Make A New Donation   Make A New Selection

Technology powered by **D**onation **C**entral™ -- Transactions Processed in the Pacific Time Zone

Section IV. HTTPS X-Post Method

The HTTPS X-Post method supports migration from an existing payment processor to the Transaction Central system, and can be either (1) TransFirst Hosted via Server Integration Method (SIM) or (2) Merchant Hosted via Advanced Integration Method (AIM).

Disclaimer

Over the years of processing many merchant transactions, TransFirst has recognized the need for "gateway migration." That is, the ability for merchants to transparently transition off of their current payment gateway, and onto Transaction Central (TC). Enter X-POST. This flexible gateway emulator (currently only for Authorize.net) makes it easy for a merchant or developer to move away from Authorize.net and onto TC.

This migration is accomplished by closely adhering to the input/output specification for the Auth.net 3.0 (SIM) and 3.1 (AIM) integration methods. That said, TC IS NOT Authorize.net! We are a competing "Payment Gateway." As such, our **X-POST emulator is NOT 100% identical to authorize.net**.

If you need assistance with your X-POST integration please contact the TC Integrations Group using the contact information at the beginning of this document. It is not recommended that you use the X-POST emulator if you are building a client application or web site from scratch. TC has many other more capable integration methods designed to offer you flexibility.

A. TransFirst Hosted (SIM)

Server Integration Method (SIM)

The Server Integration Method (SIM) is very similar to the "TFHosted" method of integration. However, there are some key differences.

X-POST SIM allows you to have greater control over the look and feel of the payment page. Merchants can insert html code into this page to present a branded page that looks much more like their native web site.

This method does require that you to use "server side" scripting/programming languages to compute an HMAC-MD5 hash.

These are just some of its capabilities:

- E-mail Support
- Payment Form
- Receipt Page
- Relay Response

This Integration method does NOT require an SSL certificate on the merchant's site, unless the html used is hosted on the merchant site, (i.e. iframe, etc.).

Further information can be obtained by contacting the TC Integrations Group.

B. Merchant Hosted (AIM)

Advanced Integration Method (AIM)

The Advanced Integration Method (AIM) is very similar to the "HTTPS POST/Merchant Hosted" method of integration. However, there are some key differences.

X-POST AIM allows those merchants who are migrating to Transaction Central (TC) from Authorize.net to do so easily and with little additional programming. In fact, this is the very reason this method was designed. Most merchants who use this method are tied to a proprietary shopping cart and are unable to integrate to TC natively. This method allows merchants to simply change the "POSTING URL" away from authorize.net over to TC and continue to process transactions as they did before.

If you are already familiar with Authorize.net and have already integrated to their gateway, this may be the fastest method of integration. Keep in mind that because TC is NOT Authorize.net, and X-POST is simply an "Emulator" of that service, we are NOT identical! NOT all functionality implemented in Authorize.net, version 3.1 is available in TC X-POST, version 3.1, etc.

Further information can be obtained by contacting the TC Integrations Group using the contact information at the beginning of this document.

For easy integration to our payment gateway you may want to use our X-Post product. This product is an "Authorize.net" emulation system. It is NOT Authorize.net it simply allows to use the same data structure to transmit transactions and to receive a response.

POST URL = https://www.oc2net.net/xpost/transact.aspx

The table below lists the minimum set of NAME/VALUE pairs that must be included within a credit card transaction sent through the X-Post gateway.

FIELD NAME	FIELD VALUE
x_version	3.1
x_delim_data	True
x_login	Your Login ID
x_tran_key	RegKey obtained from the Merchant Information page
x_amount	Amount of purchase inclusive of tax
x_card_num	Customer's card number
x_exp_date	Customer's card expiration date
x_type	Type of transaction (AUTH_CAPTURE, CREDIT, VOID)

Section V. HTTPS Post Method – Merchant Hosted with Standard or Email Response

This section describes integration requirements and settings for transactions sent via an HTTPS Post connection, with the response shown in formatted text according to the HTML code used in the merchant's page located at a designated URL address, as a post string (Standard Response), or the response message sent as an Email for Credit Card Sale Transactions (described in Section F that follows on page 37).

Standard Response

The following transactions are supported by the Standard Response method:

- Credit Card Sale
- Credit Card Void/Credit
- ACH Transactions
- Recurring Credit Card/ACH Transactions
- Update Recurring Credit Card/ACH Transactions

Email Response

The following transactions are supported by the Email Response method:

- Credit Card Sale

Storing and Collecting Transaction Data

Transactions processed using this HTTPS Post method require collection of all demographic and credit card/ACH information. The transaction data is then sent securely (via HTTPS) to Transaction Central for processing.

Redirect Options

This HTTPS Post method requires the user to enter a value within the CCRURL field. This is then used to enter a URL address to redirect any responses to payment processing requests. The value entered in this field determines how responses are displayed to a customer, as described in the following table:

Value Entered in RURL Field	Response Displayed As	Notes
URL address	HTML page with response shown in formatted text according to the HTML code used in the merchant's page located at the URL address.	Described as option 1 responses in this section
[empty]	String of text in merchant's HTML page.	Described as option 2 responses in this section: indicates an empty field

A. Credit Card Sale Transaction with Standard Response

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/processCC.asp?

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique order number
**TaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point) DO NOT use $ or ,
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt
*AccountNo	Number	17	Numeric (0-9)	Credit Card Account Number
*CCMonth	Number	2	Numeric (0-9)	Month Credit Card Expires
*CCYear	Number	2	Numeric (0-9)	Year Credit Card Expires
NameonAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
AVSADDR	Text	60	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Billing Address of Card Holder
AVSZIP	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4
CCRURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = ? [# : _ * / @ ; \ ] - and Space	1) URL to redirect after processing transaction 2) Send this field empty to get post string
CVV2	Number	4	Numeric (0-9)	CVV2 or CID Security Code

Field Name	Type	No	Valid Characters	Description
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Responses

Option 1

TransFirst will redirect a post string of the data to the URL specified in the CCRURL field. Fields sent back to the user's Redirect RURL field include the following values:

On Failure

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Declined: test for blank and null also
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text description of the failure(s)
AVSCode	Text	2	Alphanumeric (a-z, A-Z)	AVS Response Code

Field Name	Type	No	Valid Characters	Description
CVV2ResponseMsg	Text	1	Alpha (M, N, U) or Empty	CVV2 Response Message (M = Match or N = No Match or U = Issuer Not Identified)
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned

On Success

Field Name	Type	No	Valid Characters	Description
TransID	Number	-	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer, and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique order number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Authorization code sent back from Processor
AVSCode	Text	2	Alpha (A-Z)	AVS Response Code
CVV2ResponseMsg	Text	1	Alpha (M, N, U) or Empty	CVV2 Response Message (M = Match or N = No Match or U = Issuer Not Identified)
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned

Option 2

If CCRURL was sent empty the following post string will display without redirecting.

On Success

```
TransID=1236654&RefNo=54654654&Auth=025698&AVSCode=X&
CVV2ResponseMsg=x&Notes=&
User1=User1&User2=User2&User3=User3&User4=User4
```

On Failure

```
TransID=1236654&RefNo=54654654&Auth=Declined&AVSCode=X&
CVV2ResponseMsg&Notes=Declined by Card Issuer&
User1=User1&User2=User2&User3=User3&User4=User4
```

B. Credit Card Void/Credit with Standard Response

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/voidcreditcconline.asp

Fields To Be Sent To TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*TransID	Number	--	Numeric (0-9)	User's unique transaction number assigned by TransFirst (this number is an integer and will continue to increase in size)
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Reference number sent by user
*CreditAmount	Currency	8	Numeric (0-9) and .	Amount of credit (including decimal point). Full amount required for void.
CCRURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	URL to redirect after processing transaction

Responses

These fields are sent back to the user's Redirect RURL field:

Field Name	Type	No	Valid Characters	Description
TransID	Number	--	Numeric (0-9)	User's unique transaction number assigned by TransFirst (this number is an integer and will continue to increase in size)
TransType	Text	2	CC, CP, CK, SA	"CC" indicating credit card
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Reference number sent by user
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Auth Code number or "Declined"

Field Name	Type	No	Valid Characters	Description
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text Description of the failure(s) and blank for success
Status	Text	1	Blank or "F"	Blank = Success and F = failure

On Success

```
TransID=177124525&TransType=CC&REFID=gwrdalt2&Auth=454728&Notes=
&Status=
```

On Failure

```
TransID=177124525&TransType=CC&REFID= gwrdalt2&Auth=&Notes=This
transacton is not valid for doing credit or void&Status=F
```

C. ACH Transaction with Standard Response

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/processcheckonline.asp?

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point)
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique reference number
*AccountNo	Number	16	Numeric (0-9)	Bank Account Number
*NameonAccount	Text	22	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Bank Account
CKRURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Option 1 - URL to redirect after processing transaction Option 2 – Send this field empty to get post string
DESCRIPTION	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement (ACH Only)
DESCDATE	Number	6	Numeric (0-9)	Date in MMDDYY Format
TRANSTYPE	Text	2	Alpha (CK or SA)	CK for Checking Accounts (default) SA for Savings Accounts
*TRANSROUTE	Number	9	Numeric (0-9)	Bank Routing Number
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

Field Name	Type	No	Valid Characters	Description
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

Responses

Option 1

TransFirst will redirect a post string of the data shown below to the URL as specified in the CKRURL field.

Option 2

If CKRURL was sent empty the following post string will display without redirecting:

```
TransID=1236654&REFNO=54654654&Auth=1236654&
Notes=&User1=User1&User2=User2&User3=User3&User4=User4
```

On Success

Field Name	Type	No	Valid Characters	Description
TransID	Number	--	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique transaction number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Auth Code sent back from TransFirst gateway
Notes				Blank
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned

Field Name	Type	No	Valid Characters	Description
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned

On Failure

Field Name	Type	No	Valid Characters	Description
TransID	Null	--	Numeric (0-9)	User's unique transaction number assigned by TransFirst (this number is an integer and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User's unique transaction number (Is the same as RefID)
Auth	Null		Alphanumeric (a-z, A-Z, 0-9)	Declined: test for blank and null also
Notes	Text		Alphanumeric (a-z, A-Z, 0-9)	Error Message
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned

On Success

```
TransID=27731011&REFNO=1&Auth=27731011&Notes=&User1=usr1&User2=usr2&Us
er3=usr3&User4=usr4
```

On Failure

```
TransID=&REFNO=1&Auth=&Notes=Invalid Amount or TransRoute number or
AccountNo&User1=&User2=&User3=&User4=
```

D. Recurring Credit Card/ACH Transaction with Standard Response

Storing and Collecting Transaction Data

Like all other transactions processed using this HTTPS Post method, the user collects all demographic and credit card/ACH information. The transaction data is then sent securely (via HTTPS) to Transaction Central for processing.

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/AddRecurring.asp?

Fields To Be Sent To TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	URL to redirect after processing transaction
*Description	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement (ACH Only)
*Type	Text	2	Alpha (CC, CK, SA, CP)	CC= Credit Card, CK= Check Acct., SA= Savings Acct., CP=Purchase Card
*ABAExpire	Number	4/9	Numeric (0-9)	Expire Date CC – ABA Routing No – CK or SA
*AccountNo	Number	17	Numeric (0-9)	Account Number
*AccountName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on account
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : ? _ * / @ ; - and Space	Unique User Reference ID (Invoice #, Order # or Account #)
*Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,
Address	Text	30	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder for AVS
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4 of Account Holder for AVS

Field Name	Type	No	Valid Characters	Description
*BillingCycle	Text	1	Alpha (M, Q, Y, W, B, D, H)	M=Monthly, Q=Quarterly, Y=Yearly, W=Weekly, B=Biweekly, D=Every 4 weeks, H=Every 8 weeks
*StartDate	Text	8	Alphanumeric (0-9) and /	Date of the first debit (MM/DD/YY)
*NoOfDebits	Number	2	Numeric (0-9)	Total number of debits (0 = infinite)
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
**TaxAmount	Currency	8	Numeric (0-9) and .	Amount of sales tax (w/decimal point)
TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Recurring Transactions

If the user enters a recurring transaction for the first time and enters today's date in the Start Date field, the transaction will only be processed that day if it is submitted to TransFirst by 9:00AM Pacific Time. If it is submitted afterward, the transaction will be processed the following day. However: all subsequent debits from the recurring account will be processed as scheduled using the information from the Billing Cycle and Start Date fields.

Responses

These fields are sent back to the user's Redirect RURL field:

On Success

Field Name	Type	No	Valid Characters	Description
RecurringID	Number	--	Numeric (0-9)	Recurring ID assigned by TransFirst (this number is an integer and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Reference ID (Is the same as RefID)

On Failure

Field Name	Type	No	Valid Characters	Description
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Reference ID (Is the same as RefID)
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text description of the failure(s)
RecurringID	Number	--	Numeric (0-9)	Recurring ID assigned by TransFirst (this number is an integer and will continue to increase in size)

On Success

`RecurringID=956084&RefNo=dsfdsfw&Notes=`

On Failure

`RecurringID=&RefNo=dsfdsfw&Notes=`

E. Update Recurring Credit Card/ACH Transaction, Standard Responses

Storing and Collecting Updates to Transaction Data

Using the HTTPS Post Method, the user collects and performs all necessary updates to demographic and credit card/ACH information. The transaction data is then sent securely (via HTTPS) to Transaction Central for processing.

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/UpdateRecurringOnline.asp?

Fields To Be Sent To TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	--	Numeric (0-9)	Recurring ID assigned by TransFirst (this number is an integer and will continue to increase in size)
*RURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	URL to redirect after processing transaction
TransType	Text	2	Alpha (CC, CK, SA, CP)	CC= Credit Card, CK= Check Acct, SA=Savings Acct, CP=Purchase Card
Active	Text	1	Alpha (Y or N)	Y=Active N = Not Active
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Unique User Reference ID (Invoice #, Order # or Account #)
AccountName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on account
Address	Text	30	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder for AVS

ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4 of Account Holder for AVS
Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,
AccountNo	Number	17	Numeric (0-9)	Account Number
ABAExpire	Number	4/9	Numeric (0-9)	Expire Date CC – ABA Routing No – CK or SA
NoOfDebits	Number	2	Numeric (0-9)	Total number of debits (0 = infinite)
NextProcessDate	Text	8	Numeric (0-9) and /	Date of next process. (MM/DD/YY)
BillingCycle	Text	1	Alpha (M, Q, Y, W, B, D, H)	M=Monthly, Q=Quarterly, Y=Yearly, W=Weekly, B=Biweekly, D=Every 4 weeks, H=Every 8 weeks
Description	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement (ACH Only)
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
**TaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (w/decimal point)
TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Responses

These fields are sent back to the user's Redirect RURL field:

On Success

Field Name	Type	No	Valid Characters	Description
RecurringID	Number	-	Numeric (0-9)	Recurring ID assigned by TransFirst (number that continues to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Reference ID (Is the same as RefID)
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	

On Failure

Field Name	Type	No	Valid Characters	Description
RecurringID	Number	--	Numeric (0-9)	Recurring ID assigned by TransFirst (this number is an integer and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Reference ID (Is the same as RefID)
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text description of the failure(s)

On Success

`RecurringID=956101&RefNo=sadfsdfe&Notes=`

On Failure

`RecurringID=&RefNo=&Notes=RecurringID is blank`

F. Credit Card Sale Transaction with Email Response

The following version of the HTTPS Post accepts the customer's e-mail address. It then e-mails both Merchant and Customer after a transaction is posted to TransFirst.

Storing and Collecting Transaction Data

The user collects all demographic and credit card information for transactions processed using this HTTPS Post method. The transaction data is then sent securely (via HTTPS) to Transaction Central for processing.

Redirect Options

This HTTPS post method requires you to enter a value within the CCRURL field, which is used to enter a URL address to redirect any responses to payment processing requests. The value entered in this field determines how responses are displayed to a customer, as described in the following table:

Value Entered in CCRURL Field	Response Displayed As	Notes
URL address	HTML page with response shown in formatted text according to the HTML code used in the merchant's page located at the URL address	Described as option 1 responses in this section
[empty]	String of text in merchant's HTML page.	Described as option 2 responses in this section: indicates an empty field

Credit Card Sale Transactions with Email Response

Post URL

Post these transactions to the following URL:

https://webservices.primerchants.com/billing/TransactionCentral/processCCOnline.asp?

Fields To Be Sent To TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Amount of sale (including decimal point) do not use $ or ,

Field Name	Type	No	Valid Characters	Description
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
*AccountNo	Number	17	Numeric (0-9)	Account Number
*CCMonth	Number	2	Numeric (0-9)	Month Credit Card Expires
*CCYear	Number	2	Numeric (0-9)	Year Credit Card Expires
*NameonAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
CVV2	Number	4	Numeric (0-9)	CVV2 or CID Security Code
AVSADDR	Text	30	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder for AVS
AVSZIP	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4 of Account Holder for AVS
*CCRURL	Text	250	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	1) 1) URL to redirect after processing transaction 2) Send this field empty to get post string
Email	Text	100	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	Customer E-mail addresses (separated by comma)
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
**TaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point)
TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Responses

Option 1

These fields are sent back to the user's Redirect URL specified in the CCRURL field:

On Failure

Field Name	Type	No	Valid Characters	Description
TransID	Number	--	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer and will continue to increase in size)
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Declined
Notes	Text	20	Alphanumeric (a-z, A-Z, 0-9) - _ /	Text Description of the Failures
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned
AVSCode	Text	2	Alpha (a-z, A-Z)	AVS Response Code
CVV2Response Msg	Text	1	Alpha (M, N, U) or Empty	CVV2 Response Message (M = Match or N = No Match or U = Issuer Not Identified)

On Success

Field Name	Type	No	Valid Characters	Description
TransID	Number	--	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer and will continue to increase in size)

Field Name	Type	No	Valid Characters	Description
RefNo	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number (Is the same as RefID)
Auth	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Authorization Code sent back from Processor
USER1	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER2	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER3	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
USER4	Text	150	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
AVSCode	Text	2	Alpha (a-z, A-Z)	AVS Response Code
CVV2Response Msg	Text	1	Alpha (M, N, U) or Empty	CVV2 Response Message (M = Match or N = No Match or U = Issuer Not Identified)

Option 2

If CCRURL = "", the following post string will display without redirecting.

On Success

```
TransID=1236654&REFNO=54654654&Auth=025698&AVSCode=X&CVV2ResponseMsg=M
&Notes=&user1=user1&user2=user2&user3=user3&user4=user4
```

On Failure

```
TransID=1236654&REFNO=54654654&Auth=Declined&AVSCode=X&CVV2ResponseMsg
=M&Notes=Declined by Card Issuer&user1=user1
&user2=user2&user3=user3&user4=user4
```

Section VI. HTTPS Post Method -- Merchant Hosted with XML Response

This section describes integration requirements for the HTTPS Post Method--Merchant Hosted with XML Response for **Credit Card**, **ACH**, and **Recurring** functions.

WSDL Language

These method options use the Web Services Description Language (WSDL). Descriptions of the methods are provided at the following URLs:

Credit Card:

https://webservices.primerchants.com/creditcard.asmx

ACH:

https://webservices.primerchants.com/CheckVerifyWS/CheckVerifyWS.asmx

Recurring:

https://webservices.primerchants.com/recurring.asmx

Storing and Collecting Transaction Data

Transactions processed using this HTTPS Post method require the user to collect all demographic and credit card/ACH information. The transaction data is then sent securely (via HTTPS) to Transaction Central for processing.

Test Information

A test environment is provided at the following URLs:

Credit Card:

https://web.cert.transfirst.com/prigateway/creditcard.asmx

ACH:

https://web.cert.transfirst.com/checkverifyws/CheckVerifyws.asmx

Recurring:

https://web.cert.transfirst.com/prigateway/recurring.asmx

A. GetBankCardDebitStatus

Use this function for determining the current status of a credit card sale.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/GetBankCardDebitStatus

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*TransID	Number	--	Numeric (0-9)	Transaction ID assigned by TransFirst (this number is an integer and will continue to increase in size)
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>184132789</TransID>
<RefID> CRF385V1AFBOTRZCK </RefID>
<PostedDate>2009-07-30T18:19:00.0000000-07:00</PostedDate>
<SettledDate>1900-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>1.00</Amount>
<AuthCode>285789</AuthCode>
<Status>Voided</Status>
<AVSCode>Y</AVSCode>
</BankCardDebitStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<PostedDate>0001-01-01T00:00:00.0000000-08:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0</Amount>
<Status>Canceled</Status>
<Message>Invalid field format</Message>
</BankCardDebitStatus>
```

B. GetBankCardCreditStatus

Use this function for determining the current status of a credit card credit.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/GetBankCardCreditStatus

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*CreditID	Number	8	Numeric (0-9)	Unique Credit ID
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardCreditStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<CreditID>5732694</CreditID>
<TransID>184742418</TransID>
<RefID>5964826</RefID>
<PostedDate>2009-08-04T07:04:00.0000000-07:00</PostedDate>
<SettledDate>2009-08-04T23:59:00.0000000-07:00</SettledDate>
<Amount>317.00</Amount>
<Status>Settled</Status>
</BankCardCreditStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardCreditStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<CreditID>0</CreditID>
<TransID>0</TransID>
<PostedDate>0001-01-01T00:00:00.0000000-08:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0</Amount>
<Status>Canceled</Status>
<Message>invalid account</Message>          [may not be present]
</BankCardCreditStatus>
```

C. CCSale

Use this function for processing credit card debit authorizations. Provides support for Level 2 Data.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CCSale

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

SaleTaxAmount field should have at least a "0" passed in it.

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (with decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV Number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder for AVS
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4 of Account Holder for AVS
UserID	Number	15	Numeric (0-9)	Operator UserID
TrackData	Text	100		Required for card present transactions
**SaleTaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point)
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)

Field Name	Type	No	Valid Characters	Description
TaxIndicator	Number	1	Numeric (0-2)	Optional for corporate purchase card transactions. 0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt. The default is 0.

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Optional Fields Specified by TransFirst (Must be present even if empty)

Field Name	Type	No	Valid Characters	Description
MerchZIP	Text	9	Alphanumeric (a-z, A-Z, 0-9)	ZIP Code or ZIP + 4
MerchCustPNum	Text	20	Alphanumeric (a-z, A-Z, 0-9)	Customer's Purchase Order number
MCC	Text	4	Alphanumeric (a-z, A-Z, 0-9)	Service Industry Code / Merchant Category Code
InstallmentNum	Number	2	Numeric (00, 01)	Recurring indicator (00=No, 01=Yes)
PaymentDesc	Text	25	Alphanumeric (a-z, A-Z, 0-9)	Payment description
InstallmentOf	Number	2	Numeric (0-9)	Maximum number of installment payments
POSInd	Number	2	Numeric (00, 01)	Swiped or keyed entry (00=Swiped, 01=Keyed)
POSConditionCode	Number	-	Numeric (0-9)	Currently not used
EComInd	Number	2	Numeric (00, 01)	Electronic Commerce Indicator (00=No, 01=Yes)
AuthCharInd	Number	1	Numeric (0-9)	Authorization Character Indicator
CardCertData	Number	1	Numeric (0-9)	Currently unused but reserved for future use
CAVVData	Number	1	Numeric (0-9)	Currently unused but reserved for future use

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<CCSaleDebitResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>184875213</TransID>
<RefID />
<PostedDate>2009-08-18T13:39:58.8476072-07:00</PostedDate>
<SettledDate>2009-08-18T13:39:58.8476072-07:00</SettledDate>
<Amount>0.01</Amount>
<AuthCode>658973</AuthCode>
<Status>Authorized</Status>
<AVSCode>Y</AVSCode>
<Message />
<CVV2Code>M</CVV2Code>
<ACI>V</ACI>
<AuthSource>5</AuthSource>
<TransactionIdentifier>009234587144927</TransactionIdentifier>
<ValidationCode>GX2X</ValidationCode>
<CAVVResultCode />
</CCSaleDebitResponse>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<CCSaleDebitResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<RefID />
<PostedDate>2009-08-18T13:44:21.5317448-07:00</PostedDate>
<SettledDate>2009-08-18T13:44:21.5317448-07:00</SettledDate>
<Amount>0</Amount>
<AuthCode />
<Status>Canceled</Status>
<AVSCode />
<Message>Credit Card Number Or Expire Date Or CVV2 is not valid</Message>
<CVV2Code />
<ACI />
<AuthSource />
<TransactionIdentifier />
<ValidationCode />
<CAVVResultCode />
</CCSaleDebitResponse>
```

D. CCSaleRSP

Use this function for processing credit card debit authorizations where a response code is desired. Provides support for Level 2 Data.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CCSaleRSP

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

SaleTaxAmount field should have at least a "0" passed in it.

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (with decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV Number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder for AVS
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	ZIP Code or ZIP + 4 of Account Holder for AVS
UserID	Number	15	Numeric (0-9)	Operator UserID
TrackData	Text	100		Required for card present transactions
**SaleTaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point)
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)

Field Name	Type	No	Valid Characters	Description
TaxIndicator	Number	1	Numeric (0-2)	Optional for corporate purchase card transactions. 0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt. The default is 0.

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

Optional Fields Specified by TransFirst (Must be present even if empty)

Field Name	Type	No	Valid Characters	Description
MerchZIP	Text	9	Alphanumeric (a-z, A-Z, 0-9)	ZIP Code or ZIP + 4
MerchCustPNum	Text	20	Alphanumeric (a-z, A-Z, 0-9)	Customer's Purchase Order number
MCC	Text	4	Alphanumeric (a-z, A-Z, 0-9)	Service Industry Code / Merchant Category Code
InstallmentNum	Number	2	Numeric (00, 01)	Recurring indicator (00=No, 01=Yes)
PaymentDesc	Text	25	Alphanumeric (a-z, A-Z, 0-9)	Payment description
InstallmentOf	Number	2	Numeric (0-9)	Maximum number of installment payments
POSInd	Number	2	Numeric (00, 01)	Swiped or keyed entry (00=Swiped, 01=Keyed)
POSConditionCode	Number	-	Numeric (0-9)	Currently not used
EComInd	Number	2	Numeric (00, 01)	Electronic Commerce Indicator (00=No, 01=Yes)
AuthCharInd	Number	1	Numeric (0-9)	Authorization Character Indicator
CardCertData	Number	1	Numeric (0-9)	Currently unused but reserved for future use
CAVVData	Number	1	Numeric (0-9)	Currently unused but reserved for future use

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<CCSaleDebitResponseRSP xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>186451599</TransID>
<RefID>gte11stg1</RefID>
<PostedDate>2009-08-18T13:52:06.7914144-07:00</PostedDate>
<SettledDate>2009-08-18T13:52:06.7914144-07:00</SettledDate>
<Amount>0.01</Amount>
<AuthCode>619149</AuthCode>
<Status>Authorized</Status>
<AVSCode>Y</AVSCode>
<Message />
<CVV2Code>M</CVV2Code>
<ACI>V</ACI>
<AuthSource>5</AuthSource>
<TransactionIdentifier>169230751425814</TransactionIdentifier>
<ValidationCode>8KRF</ValidationCode>
<CAVVResultCode />
<ResponseCode>00</ResponseCode>
</CCSaleDebitResponseRSP>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<CCSaleDebitResponseRSP xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>123244115</TransID>
<RefID>0610</RefID>
<PostedDate>2008-07-28T14:04:47.2883273-06:00</PostedDate>
<SettledDate>2008-07-28T14:04:47.8039622-06:00</SettledDate>
<Amount>0.01</Amount>
<AuthCode />
<Status>Declined</Status>
<AVSCode />
<Message>Refer to card Issuer</Message>
<CVV2Code />
<ACI />
<AuthSource />
<TransactionIdentifier />
<ValidationCode />
<CAVVResultCode />
<ResponseCode>01</ResponseCode>
</CCSaleDebitResponseRSP>
```

E. CreditCardSaleAll

Use this function to process credit card debit authorizations with additional information. UsrDef fields are optional for future use.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CreditCardSaleAll

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (with decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV Number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Card Holder
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal Code of Card Holder
UserID	Number	15	Numeric (0-9)	Operator UserID
TrackData	Text	100		Required for card present transactions
SaleTaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point)
PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number
UsrDef1	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

Field Name	Type	No	Valid Characters	Description
UsrDef2	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
UsrDef3	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
UsrDef4	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>123244126</TransID>
<RefID> gteretstg1</RefID>
<PostedDate>2008-07-28T16:10:51.7742026-06:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-07:00</SettledDate>
<Amount>1.00</Amount>
<AuthCode>TAS965</AuthCode>
<Status>Authorized</Status>
<AVSCode>N</AVSCode>
<CVV2Code>M</CVV2Code>
</BankCardDebitStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>123244125</TransID>
<RefID />
<PostedDate>2008-07-28T16:10:27.4881967-06:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-07:00</SettledDate>
<Amount>0.01</Amount>
<Status>Declined</Status>
<AVSCode>N</AVSCode>
<Message>Refer to card Issuer</Message>
<CVV2Code>M</CVV2Code>
</BankCardDebitStatus>
```

F. CreditCardSaleAllRSP

Use this function to process credit card debit authorizations where a response code is desired. UsrDef fields are optional for future use.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CreditCardSaleAllRSP

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (with decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV Number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Card Holder
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal Code of Card Holder
UserID	Number	15	Numeric (0-9)	Operator UserID
TrackData	Text	100		Required for card present transactions
SaleTaxAmount	Currency	8	Numeric (0-9) and .	Sales tax amount (with decimal point)
PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number
UsrDef1	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

Field Name	Type	No	Valid Characters	Description
UsrDef2	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
UsrDef3	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.
UsrDef4	Text	150	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database.

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatusRsp xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.paymentresources.com/webservices/">
<Responsecode>00</Responsecode>
<TransID>123456789</TransID>
<RefID> </RefID>
<PostedDate>2009-07-13T14:00:05.6864795-07:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0.01</Amount>
<AuthCode>123456</AuthCode>
<Status>Authorized</Status>
<AVSCode>Y</AVSCode>
<CVV2Code>M</CVV2Code>
</BankCardDebitStatusRsp>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatusRsp xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.paymentresources.com/webservices/">
<Responsecode>1105</Responsecode>
<TransID>0</TransID>
<RefID>gtestg1</RefID>
<PostedDate>2009-07-13T14:14:26.8317067-07:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0</Amount>
<Status>Canceled</Status>
<Message>Invalid card number</Message>
</BankCardDebitStatusRsp>
```

G. GetTransactionDetails

Use this function to get transaction details with your unique RefID.

Post URL

Post these transactions to this URL:
https://webservices.primerchants.com/creditcard.asmx/GetTransactionDetails

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	The RefID of the original sale
PostedDate	Number	10	Numeric (0-9) and /	(MM/DD/YY or YYYY Date Format
Amount	Currency	8	Numeric (0-9) and .	Transaction Amount (with decimal point)

XML Response from the Credit Card Web Service

There are 4 different scenarios the web service can respond with, they are described below.

Improper Data Sent to Web Service…

```
<TransDetailResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<AuthCode />
<Status>Canceled</Status>
<Notes />
<Message>Invalid field format</Message>
</TransDetailResponse>
```

No Records Found…

```
<TransDetailResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<AuthCode />
<Status>Canceled</Status>
<Notes />
<Message>No Records Found</Message>
</TransDetailResponse>
```

Too Many Records Found… (This method can only return a single transaction)

```
<TransDetailResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<AuthCode />
<Status>Canceled</Status>
<Notes />
<Message>Too Many Records Found</Message>
</TransDetailResponse>
```

Successful Retrieval of the Record you Queried…

```
<TransDetailResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>143481998</TransID>
<AuthCode>Declined</AuthCode>
<Status>Declined</Status>
<Notes>N7/Decline for CVV2 failure</Notes>
<Message />
</TransDetailResponse>
```

Note: After a successful record retrieval it is beneficial to use the "GetBankCardDebitStatus" method using the "TransID" you received from this query. This is recommended to retrieve this transaction's status. Information if needed.

H. VoidCreditCardSale

Use this function to void credit card sales that have been authorized. A credit card sale can only be voided if it has not been settled. A credit refund must be performed to reverse a settled credit card transaction.

Post URL

Post these transactions to this URL:
https://webservices.primerchants.com/creditcard.asmx/VoidCreditCardSale

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*TransID	Number	-	Numeric (0-9)	The Transaction ID of the original sale

Receiving a Transaction ID

** TransID Field: a TransID will be returned when a Credit Card Sale is authorized with all Webservice methods.

XML Response from the Credit Card Web Service

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>186486979</TransID>
<RefID>gtesgstg1</RefID>
<PostedDate>2009-08-18T14:05:00.0000000-07:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0.0100</Amount>
<AuthCode>621079</AuthCode>
<Status>Voided</Status>
<AVSCode>Y</AVSCode>
<CVV2Code />
</BankCardDebitStatus>
```

I. CreditCardCredit

Use this function to process refunds (credits) for credit card sales that have already settled. For credit card sales that have not settled, a credit card void must be performed to cancel an authorized sale.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CreditCardCredit

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Amount of credit (including decimal point)
*TransID	Number	--	Numeric (0-9)	Transaction ID of the original sale
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number

Receiving a Transaction ID

TransID Field: a TransID will be returned when a Credit Card Sale is authorized with all Webservice methods.

XML Response from the Credit Card Web Service

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardCreditStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<CreditID>4513928</CreditID>
<TransID>123242244</TransID>
<RefID />
<PostedDate>2008-07-28T16:33:46.5693335-06:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-07:00</SettledDate>
<Amount>1.00</Amount>
<Status>Authorized</Status>
<Message> </Message>    [this field only when transaction fails]
</BankCardCreditStatus>
```

J. BlindCredit

Use this function to issue a blind credit. Blind credits are credit refunds that are performed on credit card sale transactions that were settled through a processor other than TransFirst (however, the refund is processed through Transaction Central).

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/BlindCredit

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
**TransID	Number	--	Numeric (0-9)	Transaction ID of the original sale
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (including decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV Number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Card Holder
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal Code of Card Holder
UserID	Number	15	Numeric (0-9)	Operator UserID

Receiving a Transaction ID

**TransID Field: a TransID will be returned when a Credit Card Sale is authorized with all Webservice methods.

XML Response from the Credit Card Web Service

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardCreditStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://www.paymentresources.com/webservices/">
<CreditID>10005055</CreditID>
<TransID>29006064</TransID>
<RefID>1225</RefID>
<PostedDate>2005-10-03T13:45:15.2346198-07:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0.01</Amount>
<Status>Authorized</Status>
</BankCardCreditStatus>
```

K. DebitCardSale

Use this function to process a debit card sale from a card reader only (card present transactions).

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/DebitCardSale

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
*Amount	Currency	8	Numeric (0-9) and .	Sale amount (including decimal point)
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Card Holder
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal Code of Card Holder
*EncryptedPIN	Text	32	Alphanumeric (a-z, A-Z, 0-9)	Encrypted PIN (DUKPT)
*SMID	Text	20	Alphanumeric (a-z, A-Z, 0-9)	Key Serial Number - Combination of Base Derivation Key, Terminal ID and Transaction Counter
*PINFormat	Number	2	Numeric (01, 02, 03)	01 = ANSI standard (Verifone) , 02 = PIN length/PIN/fill characters, 03 = PIN/Fill characters. Found in Pin Pad Spec
CashbackAmount	Currency	8	Numeric (0-9) and .	Cash back amount (with decimal point, no dollar sign)

Field Name	Type	No	Valid Characters	Description
**VoucherNumber	Number	32	Numeric 0-9)	Required for EBT/Food Stamp transaction
UserID	Number	15	Numeric (0-9)	Operator UserID
*TrackData	Text	100		Required for card present transactions
UsrDef	Text	60	Alphanumeric (a-z, A-Z ,0-9) . = \ [] # : ? _ * / @ ; - and Space	User Defined Information sent will be returned. This field will NOT be stored in our database

EBT Transactions

** VoucherNumber: This number is required for EBT and food stamp transactions.

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>3446516</TransID>
<RefID>Debit Card Sale Reference ID</RefID>
<PostedDate>2004-11-03T10:08:25.8836687- 08:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>1</Amount>
<AuthCode>012921</AuthCode>
<Status>Authorized</Status>
<AVSCode>S</AVSCode>
<CVV2Code/>
</BankCardDebitStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<TransID>3446515</TransID>
<RefID>Debit Card Sale Reference ID</RefID>
<PostedDate>2004-11-03T09:55:34.2076643- 08:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>1</Amount>
<Status>Declined</Status>
<AVSCode>S</AVSCode>
<Message>Call Voice Center</Message>
<CVV2Code/>
</BankCardDebitStatus>
```

L. CloseBatch

All Sale and Credit transactions of accounts with a Manual-Auto Batch mode setup require a call to the CloseBatch function to settle the transactions.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/CloseBatch

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (UpperCase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*Amount	Currency	8	Numeric (0-9) and .	Amount of sale (with decimal point)
TransID	Number	--	Numeric (0-9)	The Transaction ID of the original sale
ForceSettlement	Text	1	Alpha (A-Z)	A = TransFirst will auto-close your batch
CreditID	Number	8	Numeric (0-9)	Only required for closing batch for credit

Receiving Credit ID

A CreditID will be returned when a credit card credit is authorized with web method CreditCardCredit.

XML Response from the Credit Card Web Service

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardSettleStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.paymentresources.com/webservices/">
<TransID>123245809</TransID>
<RefID > r2 <RefID />
<PostedDate>0001-01-01T00:00:00.0000000-07:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-07:00</SettledDate>
<Amount>1.00</Amount>
<AuthCode>TAS667</AuthCode>
<Status>Settled</Status>
</BankCardSettleStatus>
```

M. ReleaseBatch

This function allows closure of all credit and debit transactions for settlement (without having to provide a TransID)

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/ReleaseBatch

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key

XML Response from the Credit Card Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<ReleaseBatchSettleStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<BatchNo>1025</BatchNo>
<NoOfCreditTransaction>0</NoOfCreditTransaction>
<NoOfSalesTransaction>1</NoOfSalesTransaction>
<SettledDate>2005-10-03T13:53:03.2466006-07:00</SettledDate>
<SalesAmount>0.0300</SalesAmount>
<CreditAmount>0</CreditAmount>
<Status>Settled</Status>
<Message>Successful. The change in the transactions succeeded.</Message>
</ReleaseBatchSettleStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<ReleaseBatchSettleStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://www.paymentresources.com/webservices/">
<BatchNo>0</BatchNo>
<NoOfCreditTransaction>0</NoOfCreditTransaction>
<NoOfSalesTransaction>0</NoOfSalesTransaction>
<SettledDate>2005-10-03T13:49:08.1468322-07:00</SettledDate>
<SalesAmount>0</SalesAmount>
<CreditAmount>0</CreditAmount>
<Status>Canceled</Status>
<Message>Transaction doesn't exist for settlement</Message>
</ReleaseBatchSettleStatus>
```

N. ACH (Debit/Credit) Only

Use this function to process both ACH debits and credits. This function **does not** include verification or guarantee services.

Post URL

Post these transactions to the following URL addresses:

https://webservices.primerchants.com/CheckVerifyWS/CheckVerifyWS.asmx/ACHDebit

https://webservices.primerchants.com/CheckVerifyWS/CheckVerifyWS.asmx/ACHCredit

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
*Amount	Currency	8	Numeric (0-9) and .	Check Amount (with decimal point)
*TransRoute	Number	9	Numeric (0-9)	Check Writer Bank Routing Number
*BankAccountNo	Number	17	Numeric (0-9)	Check Writer Bank Account Number
*BankAccountType	Text	10	Alpha (Checking, Savings)	Value (should be Checking or Savings)
*Name	Text	25	Alphanumeric (a-z, A-Z, 0-9) . / -	Check Writer Name
Address	Text	25	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Check Writer Address
ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Check Writer Postal Code
*ProcessDate	Number	6	Numeric (0-9)	(MMDDYY) Must be >=Today's Date
*CheckType	Text	8	Alpha (Personal, Business)	Value should be Personal/Business
*Description	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement

ACH Product Requirements

None

XML Response from the Check Verify Web Service

On Success

```xml
<?xml version="1.0" encoding="utf-8" ?>
<CheckStatus>
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://www.paymentresources.com/webservices/">
<Success>1</Success>
<TransID>11996</TransID>
<RefID>PRICreditTest</RefID>
<PostedDate>004-02-04T08:23:02.9467720-08:00</PostedDate>
<AuthCode> CHECK IS NOT VERIFIED </AuthCode>
<Status>APPROVED</Status>
<Message />
<Amount>1.01</Amount>
</CheckStatus>
```

On Failure

```xml
<?xml version="1.0" encoding="utf-8" ?>
<CheckStatus>
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://www.paymentresources.com/webservices/">
<Success>0</Success>
<TransID>0</TransID>
<RefID>PRICreditTest</RefID>
<PostedDate>2004-02-04T08:23:02.9467720-08:00</PostedDate>
<AuthCode> CHECK IS NOT VERIFIED </AuthCode>
<Status>DENIED</Status>
<Message> Error Message </Message>
<Amount>1.01</Amount>
</CheckStatus>
```

O. Add Auto or Manual Recurring Transaction

Use this function to add automatic or manual recurring transactions.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/AddAutoOrManualRecurring

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*TransactionType	Text	2	Alpha (CC, CP, CK, SA)	CC=Credit Card CP=Corporate Purchase Card CK=Checking Account SA=Savings Account
CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardExpirationDate	Number	4	Numeric (0-9)	(MMYY) Expiration Date on Credit Card
BankRoutingNumber	Number	9	Numeric (0-9)	Bank Routing Number (ACH Only)
BankAccountNumber	Number	17	Numeric (0-9)	Bank Account Number (ACH Only)
*NameOnAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name of Account Holder
Amount	Currency	8	Numeric (0-9) and .	Sale Amount (with Decimal Point)
BillingAddress	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Account Holder
BillingZipCode	Text	10	Alphanumeric (a-Z, A-Z, 0-9) -	Postal Code of Account Holder
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
NoOfDebits	Number	3	Numeric (0-9)	Total Number of Debits. Use zero for infinite
Description	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement (ACH Only)

Field Name	Type	No	Valid Characters	Description
StartDate	Text	8	Numeric (0-9) and /	Date of first debit (MM/DD/YY)
BillingCycle	Text	1	Alpha (M, Q, Y, W, B, D, H)	M=Monthly Q=Quarterly Y=Yearly W=Weekly B=Bi-Weekly D=Every 4 Weeks H=Every 8 weeks
ProfileType	Number	1	Numeric (0, 1)	1=Manual 2=Automatic
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase Order Number
**TaxAmount	Currency	8	Numeric (0-9) and .	Amount of Sales Tax (with Decimal Point)
TaxIndicator	Number	1	Numeric (0-2)	This is optional for corporate purchase card transactions. 0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt. The default is 0.

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

When "ProfileType" = 1, then data in fields MerchantID, RegKey, TransactionType, CardNumber, CardExpirationDate, BankRoutingNumber, BankAccountNumber, NameOnAccount and Amount are required.

When "ProfileType" = 2, then the above plus NoOfDebits, StartDate and BillingCycle are required.

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<RecurringResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>945565</RecurringID>
<Amount>0</Amount>
<Notes>Recurring transaction has been successfully setup</Notes>
</RecurringResponse>
```

On Failure

```
<?xml version="1.0" encoding="utf-8"?>
< RecurringResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>0</RecurringID>
<Amount>0</Amount>
<Notes>Merchant not setup for credit card processing</Notes>
</RecurringResponse>
```

P. Get Recurring Profile Info

Use this function to retrieve information on existing Manual or Automatic Recurring profiles.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/GetRecurringProfileInfo

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	–	Numeric (0-9)	Recurring ID assigned by TransFirst

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8"?>
< RecurringProfile xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>179144</RecurringID>
<TransactionType>CC</TransactionType>
<ProfileType>2</ProfileType>
<Status>Y/N</Status>
<AccountNumber>4***********1111</AccountNumber>
<NameOnAccount>Recurring WS</NameOnAccount>
<ExpirationDate>0211</ExpirationDate>
<BillingAddress>3 San Joaquin Plaza</BillingAddress>
<ZipCode>92782</ZipCode>
<BillingCycle>M</BillingCycle>
<NumberOfDebits>3</NumberOfDebits>
<Applied>0</Applied>
<NextProcessDate>8/21/2008</NextProcessDate>
<Amount>1.99/Amount>
<RefID/>
<DateEntered>7/30/2007 9:37:00 AM</DateEntered>
<PONumber/>
<TaxAmount>0</TaxAmount>
<TaxIndicator/>
</RecurringProfile>
```

On Failure

```
<?xml version="1.0" encoding="utf-8"?>
< RecurringProfile xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>0</RecurringID>
<NumberOfDebits>0</NumberOfDebits>
<Applied>0</Applied>
<Notes>Invalid Merchant ID</Notes>
</RecurringProfile>
```

Q. Get Recurring ID by Ref ID

Use this function to retrieve Recurring IDs on existing Manual or Automatic Recurring profiles based on the unique Reference ID.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/GetRecurringIDByRefID

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number

On Success

```
<? xml version="1.0" encoding="utf-8"?>
< GetRecurringIDResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>00000001</RecurringID>
</Message>
</GetRecurringIDResponse>
```

Note: The Recurring ID displayed in the above response is just an example to show that the system returns an Integer value which is auto generated by TransFirst at the time the recurring account is set up.

On Failure

```
<? xml version="1.0" encoding="utf-8"?>
< GetRecurringIDResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>0</RecurringID>
<Message>Invalid Reference ID</Message>
</GetRecurringIDResponse>
```

R. Edit Auto or Manual Recurring Profile

This method allows editing of an existing Automatic or Manual Recurring Profile.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/EditAutoOrManualRecurring

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	–	Numeric (0-9)	Recurring ID assigned by TransFirst
TransactionType	Text	2	Alpha (CC, CP, CK, SA)	CC=Credit Card CP=Corporate Purchase Card CK=Checking Account SA=Savings Account
CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardExpirationDate	Number	4	Numeric (0-9)	(MMYY) Expiration Date on Credit Card
BankRoutingNumber	Number	9	Numeric (0-9)	Bank Routing Number (ACH Only)
BankAccountNumber	Number	17	Numeric (0-9)	Bank Account Number (ACH Only)
NameOnAccount	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name of Account Holder
Amount	Currency	8	Numeric (0-9) and .	Sale Amount (with Decimal Point)
BillingAddress	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of Account Holder
BillingZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal Code of Account Holder
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
NoOfDebits	Number	3	Numeric (0-9)	Total Number of Debits. Use zero for infinite

Field Name	Type	No	Valid Characters	Description
Description	Text	10	Alphanumeric (a-z, A-Z, 0-9)	Description for Bank Statement (ACH Only)
NextProcessDate	Text	8	Numeric (0-9) and /	Date of first debit (MM/DD/YY)
BillingCycle	Text	1	Alpha (M, Q, Y, W, B, D, H)	M=Monthly Q=Quarterly Y=Yearly W=Weekly B=Bi-Weekly D=Every 4 Weeks H=Every 8 weeks
ProfileType	Number	1	Numeric (0, 1)	1=Manual 2=Automatic
**PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase Order Number
**TaxAmount	Currency	8	Numeric (0-9) and .	Amount of Sales Tax (with Decimal Point)
TaxIndicator	Number	1	Numeric (0-2)	This is optional for corporate purchase card transactions. 0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt. The default is 0.
Status	Text	1	Alpha (Y, N)	Y = Active, N = Inactive

Corporate Purchase Card Transactions

**Corporate purchase card transactions require TaxAmount and PONumber. TaxIndicator defaults to 0.

When "ProfileType" = 1, then data in fields MerchantID, RegKey, RecurringID, TransactionType, CardNumber, CardExpirationDate, BankRoutingNumber, BankAccountNumber, NameOnAccount and Amount are required.

When "ProfileType" = 2, then the above plus NoOfDebits, NextProcessDate and BillingCycle are required.

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<RecurringResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>946265</RecurringID>
<Amount>0</Amount>
<Notes>Recurring setup has been successfully updated</Notes>
</RecurringResponse>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<RecurringResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="http://webservices.primerchants.com/Recurring.asmx">
<RecurringID>972365</RecurringID>
<Amount>0</Amount>
<Notes>Recurring setup update failed</Notes>
</RecurringResponse>
```

S. Process Credit Card Manual Recurring Profile

This method allows for processing a Credit Card sale transaction for a Manual Recurring Profile.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/ProcessCreditCardManualRecurring

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	–	Numeric (0-9)	Recurring ID assigned by TransFirst
*Amount	Currency	8	Numeric (0-9) and .	Sale Amount (with Decimal Point)
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
CVV2	Number	4	Numeric (0-9)	CVV Number

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8"?>
< CCSaleDebitResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<TransID>84310636</TransID>
<RefID>testRef4</RefID>
<PostedDate>2007-07-30T09:51:40.1682910-07:00</PostedDate>
<SettledDate>2007-07-30T09:51:40.1995420-07:00</SettledDate>
<Amount>1.09</Amount>
<AuthCode>TAS036</AuthCode>
<Status>Authorized</Status>
<AVSCode>N</AVSCode>
<Message/>
<CVV2Code/>
<ACI>W</ACI>
<AuthSource>5</AuthSource>
<TransactionIdentifier>000000000001272</TransactionIdentifier>
<ValidationCode>9B7H</ValidationCode>
<CAVVResultCode/>
</CCSaleDebitResponse>
```

On Failure

```xml
<?xml version="1.0" encoding="utf-8"?>
< CCSaleDebitResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<TransID>0</TransID>
<RefID>testRef4</RefID>
<PostedDate>2007-07-30T09:52:13.6849885-07:00</PostedDate>
<SettledDate>2007-07-30T09:52:13.6849885-07:00</SettledDate>
<Amount>1.09</Amount>
<AuthCode/>
<Status>Canceled</Status>
<AVSCode/>
<Message>duplicate sale</Message>
<CVV2Code/>
<ACI/>
<AuthSource/>
<TransactionIdentifier/>
<ValidationCode/>
<CAVVResultCode/>
</CCSaleDebitResponse>
```

T. Process Purchase Card Manual Recurring Profile

This method allows for processing a Purchase Card sale transaction for a Manual Recurring Profile.

Post URL

Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/ProcessPurchaseCardManualRecurring

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	–	Numeric (0-9)	Recurring ID assigned by TransFirst
*Amount	Currency	8	Numeric (0-9) and .	Sale Amount (with Decimal Point)
*PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase Order Number
*TaxAmount	Currency	8	Numeric (0-9) and .	Amount of Sales Tax (with Decimal Point)
*TaxIndicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt. The default is 0.
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://webservices.primerchants.com/Recurring.asmx">
<TransID>122951690</TransID>
<RefID>Debit Card Sale Reference Id</RefID>
<PostedDate>2008-06-03T14:02:08.6011244-06:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-07:00</SettledDate>
<Amount>1.00</Amount>
<AuthCode>TAS038</AuthCode>
<Status>Authorized</Status>
<AVSCode />
<CVV2Code />
</BankCardDebitStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<BankCardDebitStatus
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<RefID>Debit Card Sale Reference ID</RefID>
<PostedDate>2004-11-03T09:55:34.2076643-08:00</PostedDate>
<SettledDate>0001-01-01T00:00:00.0000000-08:00</SettledDate>
<Amount>0</Amount>
<Status>Declined</Status>
<AVSCode></AVSCode>
<Message>Call Voice Center</Message>
<CVV2Code/>
</BankCardDebitStatus>
```

U. Process ACH Manual Recurring Profile

This method allows for processing a ACH sale transaction for a Manual Recurring Profile.

Post URL
Post these transactions to this URL:

https://webservices.primerchants.com/recurring.asmx/ProcessACHManualRecurring

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*RecurringID	Number	–	Numeric (0-9)	Recurring ID assigned by TransFirst
*Amount	Currency	8	Numeric (0-9) and .	Sale Amount (with Decimal Point)
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number

XML Response from the Recurring Web Service

On Success

```
<?xml version="1.0" encoding="utf-8"?>
<string xmlns="http://webservices.primerchants.com/Recurring.asmx">
<CheckStatus>
<Success>1</Success>
<TransID>20794119</TransID>
<RefID>Reference ID</RefID>
<Posted Date>2004-02-04T08:23:02</PostedDate>
<AuthCode>CHECK IS NOT VERIFIED</AuthCode>
<Status>APPROVED</Status>
<Message><Message>
<Amount>1.01</Amount>
</CheckStatus>
```

On Failure

```
<?xml version="1.0" encoding="utf-8"?>
<string xmlns="http://webservices.primerchants.com/Recurring.asmx">
<CheckStatus>
<Success>0</Success>
<TransID>0</TransID>
<RefID>Reference ID</RefID>
<Posted Date>2004-02-04T08:23:02</PostedDate>
<AuthCode>CHECK IS NOT VERIFIED</AuthCode>
<Status>Denied</Status>
<Message><Message>
<Amount>1.01</Amount>
</CheckStatus>
```

V. Transaction Detail Report

This report is for pulling up the List of Sales/Credit/Declined transactions that were processed in a Single Day for a single Merchant. FromDate is the day to be queried and ToDate is the next day.

Post URL
Post these transactions to this URL:

https://webservices.primerchants.com/tcreports.asmx/TransactionDetailreport

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*FromDate	Text	10	Numeric (0-9) and /	Date for which the report needs to be pulled (MM/DD/YYYY or MM/DD/YY)
*ToDate	Text	10	Numeric (0-9) and /	One Day after FromDate (MM/DD/YYYY or MM/DD/YY)
*TransType	Text	2	Alpha (CC, DC, CD, ACH)	CC=Credit Card, DC=Debit Card, CD=Credit/Debit, ACH=ACH Checking/Savings
DisplayType	Text	2	Alpha (SC, C, S, R)	SC=Sales Credits, C=Credits, S=Sales, R=Declined
Status	Text	2	Alpha (A, C, CO, D, O, OT, P, Q, R, RV, S, V)	C=Closed, D=Canceled, S=Batch close pending, O=Open, R=Returned, V=Voided, P=In an open batch, A=Batch pending When TransType=ACH then O=Open, C=Closed, V=Voided, R=Returned, A=Batch pending, CO=Correction, Q=Rejected, OT=Overticketlimit, RV=Reviewed, D=Canceled
CardType	Text	2	Alpha (BC, AM, DI, DN, JC, VI, MC)	BC=BankCard (all card types), AM=Amex, DI=Discover, DN=Dinners, JC=JCB, VI=Visa, MC=MasterCard
UserID	Number	15	Numeric (0-9)	Operator UserID
TransID	Number	-	Numeric (0-9)	TransID of Original Sale
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
AccountNumber	Number	17	Numeric (0-9)	Credit Card Account Number

Field Name	Type	No	Valid Characters	Description
AccountName	Text	30	Alphanumeric (a-z,A-Z, 0-9) . / -	Name of Account Holder
Amount	Currency	8	Numeric (0-9) and .	Sale Amount

XML Response from the Reports Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<TransactionDetailReportRSP
xmlns="http://webservices.primerchants.com/TCReports.asmx">
<TransactionDetailReport>
<Type>Sale</Type>
<MerchantID>22959</MerchantID>
<StoreNum>0001</StoreNum>
<UserID>0</UserID>
<TransID>191597783</TransID>
<RefID>update recurring test</RefID>
<CardType>CC</CardType>
<AccountName>test</AccountName>
<Posteddate>2009-10-01T08:07:00-07:00</Posteddate>
<AccountNo>4***********1111</AccountNo>
<ExpirationDate>1209</ExpirationDate>
<Status>R</Status>
<Amount>2.0000</Amount>
<AuthCode>Declined</AuthCode>
<AVSResponse>U</AVSResponse>
</TransactionDetailReport>
<TransactionDetailReport>
<Type>Sale</Type>
<MerchantID>22959</MerchantID>
<StoreNum>0001</StoreNum>
<UserID>0</UserID>
<TransID>191590418</TransID>
<RefID>6789</RefID>
<CardType>CC</CardType>
<AccountName>ACH Name Tester</AccountName>
<Posteddate>2009-10-01T08:01:00-07:00</Posteddate>
<AccountNo>4***********1111</AccountNo>
<ExpirationDate>1213</ExpirationDate>
<Status>R</Status>
<Amount>22.5000</Amount>
<AuthCode>Declined</AuthCode>
<AVSResponse>U</AVSResponse>
</TransactionDetailReport>
</TransactionDetailReportRSP>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<TransactionDetailReportRSP
xmlns="http://webservices.primerchants.com/TCReports.asmx">
<Message>Invalid Merchant Account</Message>
</TransactionDetailReportRSP>
```

W. Transaction Summary Report

This report is for pulling up the summary of transactions that were processed in a Single Day for a single Merchant. FromDate is the day to be queried and ToDate is the next day.

Post URL
Post these transactions to this URL:

https://webservices.primerchants.com/tcreports.asmx/TransactionSummaryreport

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*FromDate	Text	10	Numeric (0-9) and /	Date for which the report needs to be pulled (MM/DD/YYYY or MM/DD/YY)
*ToDate	Text	10	Numeric (0-9) and /	One Day after FromDate (MM/DD/YYYY or MM/DD/YY)
*ShowType	Text	2	Alpha (CC, DC, CD, ACH)	CC=Credit Card, DC=Debit Card, CD=Credit/Debit, ACH=ACH Checking/Savings
Status	Text	1	Alpha (C, D, S, O, R, V, P, A)	C=Closed, D=Canceled, S=Batch close pending, O=Open, R=Returned, V=Voided, P=In an open batch, A=Batch pending. When ShowType=ACH then C=Closed, O=Opened

XML Response from the Reports Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<TransactionSummaryReportRSP
xmlns="http://webservices.primerchants.com/TCReports.asmx">
<TransactionSummaryReport>
<MerchantID>22959</MerchantID>
<Posteddate>11/01/2009</Posteddate>
<NumberofTransactions>8</NumberofTransactions>
<DailyTransactionAmount>31.5200</DailyTransactionAmount>
<NumberofCreditTransactions>0</NumberofCreditTransactions>
<DailyCreditAmount>0.0000</DailyCreditAmount>
<SummaryTot>31.5200</SummaryTot>
</TransactionSummaryReport>
</TransactionSummaryReportRSP>
```

On Failure

```
<?xml version="1.0" encoding="utf-8" ?>
<TransactionDetailReportRSP
xmlns="http://webservices.primerchants.com/TCReports.asmx">
<Message>Invalid field format</Message>
</TransactionDetailReportRSP>
```

X. Verify Account

Use this function for credit card account verification.

Post URL
Post these transactions to this URL:

https://webservices.primerchants.com/creditcard.asmx/VerifyAccount

Fields to Be Sent to TransFirst (fields with an asterisk (*) require a value)

Field Name	Type	No	Valid Characters	Description
*MerchantID	Number	8	Numeric (0-9)	Merchant Number assigned by TransFirst
*RegKey	Text (Uppercase)	16	Alphanumeric (A-Z, 0-9)	TransFirst Security Key
*CardNumber	Number	17	Numeric (0-9)	Credit Card Account Number
CardHolderName	Text	30	Alphanumeric (a-z, A-Z, 0-9) . / -	Name on Credit Card
*Expiration	Number	4	Numeric (0-9)	(MMYY)
CVV2	Number	4	Numeric (0-9)	CVV number
RefID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = \ [] # : _ ? * / @ ; - and Space	User's unique reference number
**Address	Text	30	AlphaNumeric (a-z, A-Z, 0-9).#,'/() - and Space	Address of card holder
**ZipCode	Text	10	Alphanumeric (a-z, A-Z, 0-9) -	Postal code of card holder
UserID	Number	15	Numeric (0-9)	Operator UserID
TrackData	Text	100		Required for card present transactions

Address Verification System

** Required for Account Verification. Address and/or Zip Code is required for processing JCB, Diners and American Express Transactions.
MasterCard & Discover: Zip Code is required and Address Optional.
VISA: Both Optional.

Optional Fields Specified by TransFirst (Must be present even if empty)

Field Name	Type	No	Valid Characters	Description
PONumber	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (Optional for Corporate Business & Purchase Card transactions)
PaymentDesc	Text	25	Alphanumeric (a-z, A-Z, 0-9)	Payment Description
MerchZIP	Text	9	Alphanumeric (a-z, A-Z, 0-9)	ZIP Code or ZIP + 4
MerchCustPNum	Text	20	Alphanumeric (a-z, A-Z, 0-9)	Customer's Purchase Order number
MCC	Text	4	Alphanumeric (a-z, A-Z, 0-9)	Service Industry Code / Merchant Category Code
POSInd	Number	2	Numeric (00, 01)	Swiped or keyed entry (00=Swiped, 01=Keyed)
POSConditionCode	Number		Numeric (0-9)	Currently not used
EComInd	Number	2	Numeric (00, 01)	Electronic Commerce Indicator (00=No, 01=Yes)
AuthCharInd	Number	1	Numeric (0-9)	Authorization Character Indicator
CardCertData	Number	1	Numeric (0-9)	Currently unused but reserved for future use
CAVVData	Number	1	Numeric (0-9)	Currently unused but reserved for future use

XML Response from the Reports Web Service

On Success

```
<?xml version="1.0" encoding="utf-8" ?>
<AccountVerificationResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://www.paymentresources.com/webservices/">
<TransID>195459794</TransID>
<RefID />
<PostedDate>2009-11-03T13:07:56.6874544-08:00</PostedDate>
<SettledDate>2009-11-03T13:07:56.6874544-08:00</SettledDate>
<AuthCode>02677A</AuthCode>
<Status>Authorized</Status>
<AVSCode />
<Message />
<CVV2Code>M</CVV2Code>
<ACI>N</ACI>
<AuthSource>5</AuthSource>
<TransactionIdentifier>009307760760635</TransactionIdentifier>
<ValidationCode>XC5S</ValidationCode>
<CAVVResultCode />
</AccountVerificationResponse>
```

On Failure

```xml
<?xml version="1.0" encoding="utf-8" ?>
<AccountVerificationResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://www.paymentresources.com/webservices/">
<TransID>0</TransID>
<RefID />
<PostedDate>2009-11-03T13:14:21.6117929-08:00</PostedDate>
<SettledDate>2009-11-03T13:14:21.6117929-08:00</SettledDate>
<AuthCode />
<Status>Canceled</Status>
<AVSCode />
<Message>Credit Card Number Or Expire Date Or CVV2 is not valid</Message>
<CVV2Code />
<ACI />
<AuthSource />
<TransactionIdentifier />
<ValidationCode />
<CAVVResultCode />
</AccountVerificationResponse>
```

Section VII.File Upload Method via SFTP

This section describes integration requirements for sending and receiving transaction data via SFTP. Transactions processed using SFTP upload require that Demographic and Credit Card/ACH information (described below) be collected and correctly formatted into a batch file. This file is then sent (via SFTP) to Transaction Central for processing.

A. Method Options for SFTP

A merchant may use either of the following options to send a batch file to Transaction Central for processing:

- Upload Using the Transaction Central Secure Web Site

- SFTP Programmatically

Note: TransFirst scans SFTP directories every ten minutes for files that have been uploaded for processing.

Upload Using the Transaction Central Secure Web Site

You can upload a batch file via the Transaction Central secure web site. The Login Link is based on the kind of account you have. (See below)

For a multi-user account, the Upload Batch function is only available for User Levels 8 and 10. After you login via the appropriate link (listed below), go to the upload file function, browse and select the file on your computer, and then press UPLOAD FILE.

Login Links are:

TC Classic and **TC Classic with recurring**: https://www.oc2net.net/billing/login.asp
TC Multi User: https://www.oc2net.net/billing/users/Login.asp
TC Multi User with recurring: https://www.oc2net.net/billing/countercheck/login.asp

Upload batch is not available for Donation Central and Billing Central accounts.

SFTP Programmatically

You may also programmatically send TransFirst a batch file using SFTP. The TransFirst SFTP host is sftp1.paymentresource.com.

When all programming is complete and tested, remember to change the login credentials in your program from the Test Account to the actual live Transaction Central Account assigned by TransFirst. All files sent to TransFirst via SFTP shall be encrypted using PGP.

Currently the GnuPG project has taken up development of some open source PGP programs; they may be downloaded at http://www.gnupg.org/ (just click on the download link and look for your environment). To obtain the TC public key, contact the TC Integrations Group at TransFirst.

Production Server URL:

sftp1.paymentresource.com (access via tcp port 22)

Test Environment Server URL:

ftpcert.transfirst.com (access via tcp port(s) 22 [sftp] and 21 [ftp])

ACH/Credit Card File Load Definitions

The following guidelines shall be used for formatting transaction data sent in a batch file.

Columns

The table below contains a list of transaction data to be included in the batch file and their formatting specifications.

Name	Type	Size	*Valid Characters*	Description
1) Description	Text	10	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Purpose of transaction (Required for ACH – shows up on Bank Statement)
2) Type	Text	2	Alpha (CC, CK, SA)	**CC=** Credit Card CK= Check Acct. SA= Savings Acct.
3) Trans Code	Number	2	Numeric (0-9)	00= Debit CC, 01=Credit CC, 27= Debit CK, 37= Debit SA
4) ABA Expire	Number	4/9	Numeric (0-9)	Expire Date CC (MMYY) / ABA Routing No – CK or SA
5) Account No	Number	17	Numeric (0-9)	Account Number (CC, CK or SA)
6) Account Name	Text	30	Alphanumeric (a-z, A-Z, 0-9) and Space	Name on account (CC, CK or SA) (do not include comma (,))
7) Ref ID	Text	50	Alphanumeric (a-z, A-Z, 0-9) . = [# : _ * / @ ; \ ] - and Space	User's unique reference ID (Invoice #, Order # or Acct. No.)
8) Amount	Currency	8	Numeric (0-9) and .	Transaction Amount (with decimal point) (**no double quotes**)
9) Address	Text	30	Alphanumeric (a-z, A-Z, 0-9).#,'/() - and Space	Street Address of Account Holder AVS (Address Verification System)
10) Zip Code	Number	10	Numeric (0-9)	Zip Code of Account Holder (no dashes) – AVS
11) SECC Code	Text	3	Alpha PPD, CCD, WEB, TEL	NACHA SECC Code indicating type of transaction (e.g. PPD, CCD, WEB, TEL)
12) PO Number	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Purchase order number (required for Card Not Present transactions (MOPO, E-Commerce) and Corporate Business & Purchase Card transactions)
13) Tax Amount	Currency	8	Numeric (0-9) and .	Sales Tax Amount (with decimal point, enclosed within double quotes (""))
14) Tax Indicator	Number	1	Numeric (0-2)	0 = Non Taxable, 1 = Taxable, 2 = Tax Exempt

Name	Type	Size	*Valid Characters*	Description
15) Company Name	Text	16	Alphanumeric (a-z, A-Z, 0-9)	Merchant name will be used if field is omitted (Required for ACH – shows up on Bank Statement)

Note: The first 10 fields <u>must</u> be passed in the batch file. Field 11 is for SFTP uploads only and fields 12-15 are optional for Level 2 data. Minimum requirements for Address Verification Systems are Street Address digits and Zip Code digits. **Do <u>not</u> pass null values in any of the fields as this will cause duplicate transactions.**

Required Format for Transaction Data

Transaction data included in the batch file must be in comma-delimited format with quoted text, as follows:

```
CHECKING ACCOUNT

(1)         (2)  (3)    (4)           (5)        (6)        (7)       (8) (9)       (10)
"Water Bill","CK","27","122000661","123654789","John Smith","113000",25.45,"1234 Main","92616"

CREDIT CARD
(1)         (2)  (3)    (4)           (5)              (6)         (7)      (8)       (9)       (10)
"Water Bill","CC","00","1201","4012888888881881","John Smith","113001",25.45,"1234 Main","92616"
```

Required Format for Saving File

The batch file should be saved in .CCK format using the following naming convention.

<p align="center">YYMMDDNN.CCK</p>

<p align="center">Key
YY = Year, MM = Month, DD = Day, and NN = Batch #</p>

Example: 09122201.**CCK** Year = 2009, Month =12, Day = 22, and Batch # = 01

Note: The batch number is <u>required</u>. This is used to differentiate between batch files when a merchant sends more than one batch on the same day. If only one batch file is sent for a particular date, the batch number will always be entered as **01**.

To save the batch file as a .CCK file, select the following options in the **Save As** file dialog box in Windows.

Field	Value
File \Save As	********.**CCK**
Save as Type	all files

B. Response Files (available an hour after the batch has posted.)

Standard Naming Convention for Response Files

Response files can be identified by the following standard naming convention:

YYMMDDNN.RSP

Key
YY = **Year**, MM = **Month**, DD = **Day**, and NN = **Batch #**

Example: 09122201.rsp Year = 2009, Month = 12, Day = 22, and Batch # = 01

Response Data for Transactions

Response data for submitted transactions are returned in the following format:

For Approved Transactions
(1)   (2)   (3)   (4)   (5) "113000",25.45,12356,"023456","AVSCode" **For Declined Transactions** (1)   (2)   (3)   (4)   (5) "113001",25.45,"12357","Declined","AVSCode"

No.	Field Name	Description
1)	RefID	Merchant's unique reference number
2)	Amount	Amount of sale
3)	TransID	TransFirst transaction number
4)	Authcode	Authorization code
5)	AVS Failed/Success Code	Reason (see AVS codes in the Appendix)

C. Return Files (ACH Only)   (available next day)

Return files for ACH transactions that were returned from the bank are presented in the format described as follows.

Standard Naming Convention for ACH Return Files

ACH Return files can be identified by the following standard naming convention.

```
YYMMDDNN.RTN
```

> **Key**
> YY = **Year**, MM = **Month**, DD = **Day**, and NN = **Batch #**

Example: 00122201.rtn Year = 2000, Month = 12, Day = 22, and Batch # = 01

Data in ACH Return Files

Response data for transactions in ACH Return files are formatted as follows.

> **For ACH Transactions**
>
> (1)   (2)   (3) (4)   (5) (6) (7)   (8)   (9)
> ”113000”,103456,15.95,"R01","NSF","CK","27","122000661","123654789"
>
> **For Credit Card Transactions**
>
> ”113003”,35.95,"Dec","Declined","CC","","",""

No.	Field Name	Valid Characters	Description
1)	RefID	Alphanumeric (a-z, A-Z, 0-9) . = ? [# : _ * / @ ; \ ] - and Space	Merchant's unique reference number
2)	TransID	Numeric (0-9)	TransFirst transaction number
3)	Amount	Numeric (0-9) and .	Amount of sale
4)	Return Code	Alphanumeric (a-z, A-Z, 0-9)	Dec, R01, R02, C01, etc.
5)	Return Reason	Alphanumeric (a-z, A-Z, 0-9)	NSF, etc.
6)	Trans Type	Alpha CC, CK, SA	CC - Credit Card, CK - Checking Account, SA - Savings Account
7)	Auth Code	Numeric (0-9)	27, 22, 37, 32 or blank for CC

No.	Field Name	Valid Characters	Description
8)	Corrected Account#	Numeric (0-9)	Corrected checking or savings account number (if applicable)
9)	Corrected Trans Route#	Numeric (0-9)	Corrected routing number (if applicable)

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Section VIII.   Appendix

This section provides additional information regarding transaction data (including AVS, Response, and Error code descriptions) as well as tables enabling quick identification of method options for Transaction Central.

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A. AVS Codes

The following table lists AVS codes that are returned in the responses for credit card
transactions when an AVS Code is included in the original transaction data. Also included is a
description of each code.

AVS Code	Description
X	Exact match - 9-digit ZIP
Y	Exact match - 5-digit ZIP
A	Address match only
W	9-digit ZIP match only
Z	5-digit ZIP match only
N	No address or ZIP match
U	Address unavailable
G	Non-U.S. issuer
R	Issuer system unavailable

B. Method Options and Transaction Functions

The following table is designed to help you quickly identify the types of transaction functions available with each method option.

HTTPS Post – TransFirst Hosted

Function	Description
Credit Card Sale	Used to authorize credit card sale transactions
Credit Card Sale (With Convenience Fee Support)	Used to authorize credit card sale transactions and add CFS
Donation Central	Used to authorize credit card sale transactions via a TF hosted donation site

HTTPS Post – Merchant Hosted with Standard Response

Function	Description
Credit Card Sale Transactions	Used to authorize credit card sale transactions
Credit Card Void/Credit	Used to process voids and credit refunds for credit card transactions
ACH Transactions	Used to process ACH debits
ACH Credits	Used to process refunds for ACH transactions
Recurring Credit Card/ACH Transactions	Used to process recurring credit card and ACH debit transactions
Recurring Credit Card/ACH Transactions	Used to process recurring credit card and ACH debit transactions for existing recurring billing accounts that have updated or corrected information

HTTPS Post – Merchant Hosted with E-mail Response

Function	Description
Credit Card Sale Transactions	Used to authorize credit card sale transactions

HTTPS Post – Merchant Hosted with XML Response

Function	Description
CC Sale	Used to authorize credit card and debit card sale transactions
Credit Card Sale All	Used to authorize credit card sales, including transactions with AVS, PO number and sales tax information
Get Transaction Details	Used to query a transaction status via your RefID
Credit Card Void	Used to process voids for authorized credit card sales
Credit Card Credit	Used to process refunds for settled credit card transactions
Blind Credit	Used to process a refund transaction for a credit card sale settled using a processor other than TransFirst
Debit Card Sale	Used to authorize debit card sale transactions
Void Debit Card Sale	Used to cancel authorized debit card sale transactions
Debit Card Credit	Used to process refunds for debit card sales that have been settled
Credit Card Batch Settlement	Used to close an open batch, requires a transaction ID for each transaction
Release Batch	Used to close an open batch, a transaction ID is not required for each transaction
Check Verification	Used to verify paper check payments
ACH (Debit / Credit Only)	Used to process ACH debit and refund transactions
ACH (Debit / Credit) with Check Verification	Used to verify payment, process ACH debits, and refund ACH transactions
ACH Recurring	Used to process recurring ACH debits

SFTP

The user is not required to initiate or call specific functions when uploading transaction data using an SFTP connection. However, different formatting specifications are established for specific transactions. The following table lists the transaction types that have different formatting requirements.

Transaction Type	Description
ACH/Credit Card File Load Definitions	Used to authorize ACH and credit card sale transactions
Recurring ACH/Credit Card File Load Definitions	Used to authorize recurring ACH and credit card sale transactions

C. ACH Reason and Error Codes

The following table lists Reason and Error codes that are returned in the responses for ACH credit transactions. Also included is a brief description of each code.

Reason Code	Description
R01	NSF (Insufficient Funds)
R02	Acct Closed
R03	No Acct/Unable
R04	Invalid Acct
R06	Ret Per ODFI Req
R07	Authorization Revoked
R08	Stop Payment
R09	Uncollected Funds
R10	Not Authorized (Originator of a Debit Transaction (e.g., Citi Loan) Not Authorized to Debit Receivers Account)
R11	Check Truncation Entry Return
R12	Branch Sold (Account sold to another DFI). RDFI no longer maintains the Account. It should return the entry to ODFI
R13	RFDI Not Participate
R14	Representative Payee Deceased or Unable to Continue in that Capacity
R15	Beneficiary or Account Holder Deceased
R16	Acct Frozen. The funds in the account are unavailable due to specific action taken by the RDFI or by legal action
R17	File Record Edit Criteria
R18	Improper Eff Ent Date
R19	Amt Field Err
R20	Non Transaction Account
R21	Invalid Company ID
R22	Invalid Individual ID #
R23	Credit Entry Refused by the Receiver
R24	Duplicate Entry (Trace Number, Date, Dollar Amt match another Transaction)
R25	Addenda Err
R26	Mandatory Field Err
R27	Tract Nbr Err
R28	RT Check Digit Err
R29	Corp Customer Advises Not Auth
R30	RDFI Not TRX Participate
R31	Permissible Return (ODFI Agrees to accept a CCD or CTX return entry)
R32	RDFI Non-Settlement
R33	XCK Return
R34	Limited Partic DFI
R42	Routing Number/Check Digit Error (ENR Only)
R43	Invalid DFI Account Number (ENR Only)
R52	Stop Payment on Item
R61	Misrouted Return

Reason Code	Description
R62	Incorrect Trace
R63	Incorrect Dollar
R64	Incorrect ID #
R65	Incorrect Trancode
R66	Incorrect Company ID
R67	Duplicate Return (ODFI has received more than one return for the same entry)
R68	Untimely Return
R69	Multiple Errors
R70	Permissible Return Entry Not Accepted. (Used to dishonor a return containing an R31 return reason code)
R73	Timely Original Return (The RDFI is certifying that the original entry was sent with in the time frame)
R74	Corrected Return (The RDFI is correcting a previous return entry that was not honored because of incorrect/incomplete info)

Error Code	Description
C01	Incorrect DFI Account Number
C02	Incorrect Routing Number
C03	Incorrect DFI Account Number & Incorrect Routing Number
C04	Incorrect Individual Name/Receiving Company Name
C05	Incorrect Transaction Code
C06	Incorrect DFI Account Number & Incorrect Transaction Code
C07	Incorrect DFI Account Number & Incorrect Routing Number & Incorrect Transaction Code
C08	Incorrect Foreign Receiving DFI Identification
C09	Incorrect Individual Identification Number
C13	Addenda Format Error
Z15	Beneficiary Deceased item not allowed to submit
Z42	Routing Number/Check Digit Error
Z43	Invalid DFI Account Number
Z29	Corporate Customer Advises Not Authorized item not allowed to submit
Z69	Credit Not Allowed due to Unsuccessful Debit
Z62	Rejected By PRI - Duplicated Record
Z64	Rejected By PRI - Prohibited By State
Z70	Can Not Issue Blank Credit
Z71	Credit Not Allowed due to Rejected Record
Z82	Account Closed item not allowed to submit
Z83	No Account/Unable to Locate Account item not allowed to submit
Z84	Invalid Account Number item not allowed to submit
Z87	Authorization Revoked by Customer item not allowed to submit
Z90	Customer Advises Not Authorized item not allowed to submit
Z92	Invalid State
Z93	Invalid/Missing Check Serial Number
Z94	RCK Transaction Over $2500
Z96	Invalid Amount
Z98	Name On Account is Invalid

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D. Response Codes

The following table displays a list of response codes, including a brief description of each entry. This is NOT a comprehensive list of ALL codes, simply the most common ones.

If you need a complete list, contact the TC Integrations Group using the contact information at the beginning of this guide.

Response Code	Response Text
One thousand series codes (1109) are sent from TC directly. ALL other codes are returned from the issuing entity (such as a Bank).	
1002	Network Err (Timeout between GW and Issuer)
1003	Timeout
1004	Missing Required Field
1100	Invalid MerchantID/RegKey combination
1109	Duplicate sale
1104	Invalid amount
12	Invalid transaction
13	Invalid amount
14	Invalid account number (no such number)
15	No such Issuer
19	Re-enter transaction
21	No action taken (unable to back out prior transact
39	No credit account (Visa ePay)
51	Insufficient funds
52	No checking account
53	No savings account
54	Expired card
55	Incorrect PIN
57	Transaction not permitted to cardholder
58	Transaction not allowed at terminal
61	Exceeds withdrawal amount limit (activity amount l
62	Restricted card (invalid in region or country)
63	Security violation (source is not correct issuer)
65	Activity count limit exceeded
75	Allowable number of PIN-entry tries exceeded
76	Reversal: Unable to locate previous message (no ma
77	Previous message located for a repeat or reversal,
78	Invalid/nonexistent account - Decline (MasterCard
79	Already reversed (by Switch)
80	No financial Impact (Reversal for declined debit o
81	PIN cryptographic error found (error found by the
82	Incorrect CVV
83	Unable to verify PIN
85	(No Message Returned)
86	Cannot verify PIN
92	Destination cannot be found for routing

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Response Code	Response Text
93	Transaction cannot be completed; violation of law
94	Duplicate Transmission Detected (Integrated Debit
96	42 Card Acceptor Identification Code Invalid Value
00	Refer to card Issuer
01	Refer to card Issuer
02	Refer to card Issuer, special condition
03	Invalid merchant or service provider
04	Pick up card
05	Do not honor
06	Error
07	Pick up card, special condition (other than lost/stolen)
28	File is temporarily unavailable
41	Pick up card (lost card)
43	Pick up card (stolen card)
91	Issuer unavailable or switch inoperative (STIP not
B1	Surcharge amount not permitted on Visa cards or EB
B2	Surcharge amount not supported by debit network is
N3	Cash service not available
N4	Cash request exceeds Issuer limit
N7	Decline for CVV2 failure
T0	First-Time check (POS Check Service)
T1	Check is OK, but cannot be converted (POS Check Service)
T2	Invalid Routing Transit Number or check belongs to