



MerchantPartners

**Online Commerce Suite™  
XML Integration Guide**



Release 2.10  
July 2016

Merchant Partners  
11121 Willows Rd NE  
Suite 120  
Redmond, WA 98052

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# Overview

Online Commerce Suite is a Web-based payment gateway that allows you to process secure credit card and electronic check payments for goods and services over the Internet. Using the Online Merchant Center™ web-based administrative user interface, you can configure your Online Commerce Suite account, add users, and manage your e-business. Online Commerce Suite provides a comprehensive set of online and downloadable transaction management and accounting reports.

## What's In This Guide

The Online Commerce Suite XML Integration Guide is designed to assist you with the steps required to process credit card and electronic check transactions via the XML API. XML is just one of many transaction processing methods available in the Online Commerce Suite. For an overview of the integration methods available, please refer to the [Integration Guide](#).

## How to Comment on This Guide

Every effort has been made to produce an accurate and easy to understand the XML Integration Guide.

## Contact Information

For more information about Online Commerce Suite, refer to the following:

### Customer Service

If you have problems with this document, or find that the instructions are incorrect, incomplete, or inadequate, please let us know.

Send your comments to [support@merchantpartners.com](mailto:support@merchantpartners.com)

Phone: (866) 242-9933

### Documentation

Web Site URL: [https://www.onlinemerchantcenter.com/mpartners/html/user\\_manuals.html](https://www.onlinemerchantcenter.com/mpartners/html/user_manuals.html)

### Certified Networks

Web Site URL: <https://www.onlinemerchantcenter.com/mpartners/html/networks.html>

### Hardware Compatible List

Web Site URL: <https://www.onlinemerchantcenter.com/mpartners/html/equipment.html>

### Transaction Processing URL

URL: <https://trans.merchantpartners.com/cgi-bin/ProcessXML.cgi/>

**Transaction Types (XML Actions)**

The following transaction types are available:

<b>Credit Card Transaction</b>	<b>Service Number</b>	<b>Description</b>
Credit Card Pre-Auth	1	A purchase amount is reserved at a card and authorization is needed to withdraw money and finish a payment.
Credit Card Sales	2	A single-step transaction without pre-authorization. Money are just withdrawn from a card.
Credit Card Post Capture	3	The reserved amount was withdrawn after authorization.
Credit Card Refund	4	Issue Credit for the CC (previous transaction required).
Credit Card Void	5	Void a Credit Card Auth or Sale (previous transaction required).
Standalone Credit/Refund	6	Process a Standalone Credit Card Credit.
Credit Card Incremental Authorization	20	This transaction types processes an incremental transaction which only applies to credit card transactions.
Credit Card Pre-Auth Reversal	21	This transaction types processes an authorized reversal which only applies to credit card.
Credit Card Authentication	30	This transaction types processes an credit card authentication.
<b>EBT Transaction</b>	<b>Service Number</b>	<b>Description</b>
EBT Balance Inquiry	32	Process a EBT Balance Inquiry
EBT Cash Benefit Balance Inquiry	33	Process a EBT Cash Benefit Balance Inquiry
EBT Cash Benefit Return	34	Process a EBT Cash Benefit Return
EBT Cash Benefit Withdrawal	35	Process a EBT Cash Benefit Withdrawal
EBT Cash Benefit Sale	36	Process a EBT Cash Benefit Sale
EBT FoodStamp Voucher Sale	37	Process a EBT FoodStamp Voucher Sale
EBT FoodStamp Return	38	Process a EBT FoodStamp Return
EBT FoodStamp Sale	39	Process a EBT FoodStamp Sale
EBT FoodStamp Balance Inquiry	40	Process a EBT FoodStamp Balance Inquiry
EBT Void	41	Process a EBT Void
<b>Debit Card Transaction</b>	<b>Service Number</b>	<b>Description</b>
Debit Card	11	Process PIN-Debit Transaction.
Debit Card Return	26	Issue PIN-Debit Return.
<b>Stored Value Cards</b>	<b>Service Number</b>	<b>Description</b>
Sale	42	Process Stored Value Card: Sale
Add Value	43	Process Stored Value: Add Value
Issue	44	Process Stored Value: Issue
Deactivate	45	Process Stored Value: Deactivate
Balance Inquiry	46	Process Stored Value: Balance Inquiry

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Refund	47	Process Stored Value: Refund
<b>Credit Card Batch Settlement</b>	<b>Service Number</b>	<b>Description</b>
Batch Settlement	24	Process Settlement for a single Batch.
Batch Settlement All	25	Process Settlement for ALL Open Batches.
<b>ACH Transaction</b>	<b>Service Number</b>	<b>Description</b>
ACH Sale	2	Process a ACH sale.
ACH Credit/Refund	4	Issue Credit for the ACH Sale (previous transaction required).
ACH Void	5	Void a ACH Sale (previous transaction required).
ACH Standalone Credit	6	Process a Standalone ACH Credit.
<b>Check 21 Transaction</b>	<b>Service Number</b>	<b>Description</b>
Check 21 Sale	27	Process a Check21 Sale.
Check 21 Void	28	Process a Check21 Void (previous transaction required).
Check 21 Credit/Refund	29	Process a Check21 Credit (previous transaction required).
<b>3rd Party Check Processing Service Providers</b>	<b>Service Number</b>	<b>Description</b>
Extended ACH Sale	14	Process a Extended ACH Sale.
Extended ACH Consumer Disbursement	15	Process a Standalone Extended ACH Consumer Disbursement.
Extended ACH Credit	16	Process a Extended ACH Credit (previous transaction required).
Extended ACH Void	17	Process a Ext ACH Void (previous transaction required).
Extended ACH ProfileAdd	31	Process a Ext ACH Profile Add.
<b>Transaction Retrieve</b>	<b>Service Number</b>	<b>Description</b>
Transaction Retrieve	19	Retrieves the transaction results of the last transaction which applies to all transaction types.
<b>Stored Profile</b>	<b>Service Number</b>	<b>Description</b>
Profile Add	7	Issue Credit Card or ACH Sale using the Stored Profile.
Profile Sale	8	Issue Credit Card or ACH Sale using the Stored Profile.
Profile Update	9	Updates the Stored Profile (ie, card number, expiration dates, etc.).
Profile Delete	10	Deletes the Stored Profile (ie, card number, expiration dates, etc.).
Profile Retrieve	12	Retrieves the account number, address and billing info.
Profile Credit	13	Issue Credit using the Stored Profile.
Profile Import	18	The Online Commerce Suite to Import the Profile. A PreAuth (creditcard) will not be performed.

# Credit Card Transactions

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## Credit Card Pre-Authorization

Fields	Required	Description
transaction name	X	Credit card only
service	X	The 1 instructs Online Commerce Suite to process an AUTH.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)



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custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
dynamicdescriptor		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		

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		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.	
fsa		health care flag	0 is off 1 is on
		rxamount	Qualified amount.
purchasecardlevel2		pocustmerrefid	Cardholders Customer ID or Reference Number for the Purchase Card.
		taxamount	Total tax charged for the transaction.
		taxexempt	1 = a tax exempt purchase. 0 = a taxable purchase.
emvdata		emvflag	Must be set to 1 for an EMV transaction
		interchangeprofile	82 - Indicates the capabilities of the card to support specific functions in the application
		dedicatedfilename	84 - Identifies the name of the DF as described in ISO/IEC 7816-4
		termverresults	95 - Status of the different functions as seen from the terminal
		secondarypinblock	0C0B - Discover also allows the cardholder to change pins at the terminal so LISO needs to allow for the secondary PIN Block. This is the encrypted PIN Block sent from the terminal.
		applicationid	4F - Identifies the application as described in ISO/IEC 7816-5
		languagepreference	5F2D - 1-4 languages stored in order of preference, each represented by 2 alphabetical characters according to ISO 639 Note: EMVCo strongly recommends that cards be personalised with data element '5F2D' coded in lowercase, but that terminals accept the data element whether it is coded in upper or lower case.
		panseqnumber	5F34 - Identifies and differentiates cards with the same PAN
		terminaltransdate	9A - Local date that the transaction was authorised
		transactionstatus	9B - Indicates the functions performed in a transaction
		cryptotranstype	9C - Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code
		aidterminal	9F06 - Identifies the application as described in ISO/IEC 7816-5
		appusagecontrol	9F07 - Indicates issuer's specified restrictions on the geographic usage and services allowed for the application
		terminalversionno	9F09 - Version number assigned by the payment system for the application
		issuereactiondefault	9F0D - Specifies the issuer's conditions that cause a transaction to be rejected if it might have been approved online, but the terminal is unable to process

		the transaction online
	issuereactiondenial	9F0E - Specifies the issuer's conditions that cause the denial of a transaction without attempt to go online
	issuereactiononline	9F0F - Specifies the issuer's conditions that cause a transaction to be transmitted online
	issuerdata	9F10 - Contains proprietary application data for transmission to the issuer in an online transaction
	terminalcountrycode	9F1A - Indicates the country of the terminal, represented according to ISO 3166
	terminalserialnum	9F1E - Unique and permanent serial number assigned to the IFD by the manufacturer
	cryptogram	9F26 - Cryptogram returned by the ICC in response of the GENERATE AC command
	cryptoid	9F27 - Indicates the type of cryptogram and the actions to be performed by the terminal
	terminalcapprofile	9F33 - Indicates the card data input, CVM, and security capabilities of the terminal
	cvresults	9F34 - Indicates the results of the last CVM performed
	terminaltype	9F35 - Indicates the environment of the terminal, its communications capability, and its operational control
	transcounter	9F36 - Counter maintained by the application in the ICC (incrementing the ATC is managed by the ICC)
	randomnumber	9F37 - Value to provide variability and uniqueness to the generation of a cryptogram
	transrefcurrencycode	9F3C - Code defining the common currency used by the terminal in case the Transaction Currency Code is different from the Application Currency Code
	additionaltermcapability	9F40 - Indicates the data input and output capabilities of the terminal
	transseqcounter	9F41 - Counter maintained by the terminal that is incremented by one for each transaction
	iccdynamicnumber	9F4C - Time-variant number generated by the ICC, to be captured by the terminal
	transcatcode	9F53 - Indicates the type of transaction being processed
	issuerscriptresult	9F5B - Present if scripts were sent by Issuer in original response
	formfactorindicator	9F6E - Indicates the form factor of the consumer payment device
	customerexcddata	9F7C - In US contactless transactions, issuer proprietary info

**Credit Card Pre-Authorization Sample 1.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
  <trans_catalog>
    <transaction name="creditcard">
      <inputs>
        <service>1</service>
        <acctid>TEST0</acctid>
        <subid></subid>
        <consumername></consumername>
        <merchantpin></merchantpin>
        <ccname></ccname>
        <ccnum></ccnum>
        <expmon></expmon>
        <expyear></expyear>
        <swipedata></swipedata>
        <billaddr1>1111 main st</billaddr1>
        <billaddr2></billaddr2>
        <billcity></billcity>
        <billstate></billstate>
        <billzip></billzip>
        <billcountry></billcountry>
        <shipaddr1></shipaddr1>
        <shipaddr2></shipaddr2>
        <currencycode></currencycode>
        <shipcity></shipcity>
        <shipstate></shipstate>
        <shipzip></shipzip>
        <shipcountry></shipcountry>
        <cardpresent></cardpresent>
        <cardpresentreader></cardpresentreader>
        <industrycode></industrycode>
        <chargetypeamx></chargetypeamx>
        <roomrateamx></roomrateamx>
        <checkindate></checkindate>
        <checkoutdate></checkoutdate>
        <purchaseid></purchaseid>
        <property></property>
        <extracharges></extracharges>
        <ipaddress></ipaddress>
        <email></email>
        <phone></phone>
        <memo></memo>
        <recur_create></recur_create>
        <recur_billingcycle></recur_billingcycle>
        <recur_billingmax></recur_billingmax>
        <recur_start></recur_start>
        <recur_amount></recur_amount>
        <merchantpin></merchantpin>
        <amount>9.95</amount>
        <merchantordernumber></merchantordernumber>
        <server_host>TestHost</server_host>
      </inputs>
    </transaction>
  </trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0" encoding="UTF-8"?>
<interface_driver>
  <trans_catalog>
    <transaction>

```

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```

<outputs>
  <status>Approved</status>
  <accountname>John Doe</accountname>
  <result>AUTH:TEST:::126476380:::</result>
  <authcode>TEST</authcode>
  <historyid>126476381</historyid>
  <orderid>98452813</orderid>
  <refcode>126476380</refcode>
  <total>9.95</total>
  <merchantordernumber />
  <avsresult />
  <cvv2result />
  <duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Credit Card Sale

Fields	Required	Description
transaction name	X	credit card and ach (if ach, check name, check ABA, check account is required)
service	X	The 2 instructs Online Commerce Suite to process an SALE.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
ckname		First and Last Name
ckaba		Routing number
ckacct		Account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
voiceauth		Authorization code for Voice Authorization
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	

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		Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
dynamicdescriptor		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle

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		2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle	
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing	
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.	
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.	
fsa		health care flag	0 is off 1 is on
		rxamount	Qualified amount.
purchasecardlevel2		pocustmerrefid	Cardholders Customer ID or Reference Number for the Purchase Card.
		taxamount	Total tax charged for the transaction.
		taxexempt	1 = a tax exempt purchase. 0 = a taxable purchase.
emvdata		emvflag	Must be set to 1 for an EMV transaction
		interchangeprofile	82 - Indicates the capabilities of the card to support specific functions in the application
		dedicatedfilename	84 - Identifies the name of the DF as described in ISO/IEC 7816-4
		termverresults	95 - Status of the different functions as seen from the terminal
		secondarypinblock	0C0B - Discover also allows the cardholder to change pins at the terminal so LISO needs to allow for the secondary PIN Block. This is the encrypted PIN Block sent from the terminal.
		applicationid	4F - Identifies the application as described in ISO/IEC 7816-5
		languagepreference	5F2D - 1-4 languages stored in order of preference, each represented by 2 alphabetical characters according to ISO 639 Note: EMVCo strongly recommends that cards be personalised with data element '5F2D' coded in lowercase, but that terminals accept the data element whether it is coded in upper or lower case.
		panseqnumber	5F34 - Identifies and differentiates cards with the same PAN
		terminaltransdate	9A - Local date that the transaction was authorised

transactionstatus	9B - Indicates the functions performed in a transaction
cryptotranstype	9C - Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code
aidterminal	9F06 - Identifies the application as described in ISO/IEC 7816-5
appusagecontrol	9F07 - Indicates issuer's specified restrictions on the geographic usage and services allowed for the application
terminalversionno	9F09 - Version number assigned by the payment system for the application
issueractiondefault	9F0D - Specifies the issuer's conditions that cause a transaction to be rejected if it might have been approved online, but the terminal is unable to process the transaction online
issueractiondenial	9F0E - Specifies the issuer's conditions that cause the denial of a transaction without attempt to go online
issueractiononline	9F0F - Specifies the issuer's conditions that cause a transaction to be transmitted online
issuerdata	9F10 - Contains proprietary application data for transmission to the issuer in an online transaction
terminalcountrycode	9F1A - Indicates the country of the terminal, represented according to ISO 3166
terminalserialnum	9F1E - Unique and permanent serial number assigned to the IFD by the manufacturer
cryptogram	9F26 - Cryptogram returned by the ICC in response of the GENERATE AC command
cryptoid	9F27 - Indicates the type of cryptogram and the actions to be performed by the terminal
terminalcapprofile	9F33 - Indicates the card data input, CVM, and security capabilities of the terminal
cvresults	9F34 - Indicates the results of the last CVM performed
terminaltype	9F35 - Indicates the environment of the terminal, its communications capability, and its operational control
transcounter	9F36 - Counter maintained by the application in the ICC (incrementing the ATC is managed by the ICC)
randomnumber	9F37 - Value to provide variability and uniqueness to the generation of a cryptogram
transrefcurrencycode	9F3C - Code defining the common currency used by the terminal in case the Transaction Currency Code is different from the Application Currency Code
additionaltermcapability	9F40 - Indicates the data input and output capabilities of the terminal
transseqcounter	9F41 - Counter maintained by the terminal that is incremented by one for each transaction



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		iccdynamicnumber	9F4C - Time-variant number generated by the ICC, to be captured by the terminal
		transcatcode	9F53 - Indicates the type of transaction being processed
		issuerscriptresult	9F5B - Present if scripts were sent by Issuer in original response
		formfactorindicator	9F6E - Indicates the form factor of the consumer payment device
		customerexcddata	9F7C - In US contactless transactions, issuer proprietary info

**Credit Card Sale Sample 2.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>2</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<currencycode></currencycode>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>

```

```
</trans_catalog>
</interface_driver>
```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

**Credit Card Authentication**

Fields	Required	Description
transaction name	X	creditcard
service	X	The "30" instructs Online Commerce Suite to process an Authentication.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
voiceauth		Authorization code for Voice Authorization
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 0.00.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.

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billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
dynamicdescriptor		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.
cardpresentreader		1 indicates a card reader was present
industrycode		Industry Code One character value: "H": Hotel
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
deviceid		Used by the acquired to identify the lane, pump, or device where the transaction occurs in a multilane environment. ID should start at 0001 and go up to 9999 and is mandatory for MasterCard.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle

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		4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle	
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing	
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.	
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.	
fsa		health care flag	0 is off 1 is on
		rxamount	Qualified amount.
purchasecardlevel2		pocustmerrefid	Cardholders Customer ID or Reference Number for the Purchase Card.
		taxamount	Total tax charged for the transaction.
		taxexempt	1 = a tax exempt purchase. 0 = a taxable purchase.
emvdata		emvflag	Must be set to 1 for an EMV transaction
		interchangeprofile	82 - Indicates the capabilities of the card to support specific functions in the application
		dedicatedfilename	84 - Identifies the name of the DF as described in ISO/IEC 7816-4
		termverresults	95 - Status of the different functions as seen from the terminal
		secondarypinblock	0C0B - Discover also allows the cardholder to change pins at the terminal so LISO needs to allow for the secondary PIN Block. This is the encrypted PIN Block sent from the terminal.
		applicationid	4F - Identifies the application as described in ISO/IEC 7816-5
		languagepreference	5F2D - 1-4 languages stored in order of preference, each represented by 2 alphabetical characters according to ISO 639 Note: EMVCo strongly recommends that cards be personalised with data element '5F2D' coded in lowercase, but that terminals accept the data element whether it is coded in upper or lower case.
		panseqnumber	5F34 - Identifies and differentiates cards with the same PAN
		terminaltransdate	9A - Local date that the transaction was authorised
		transactionstatus	9B - Indicates the functions performed in a transaction

cryptotranstype	9C - Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code
aidterminal	9F06 - Identifies the application as described in ISO/IEC 7816-5
appusagecontrol	9F07 - Indicates issuer's specified restrictions on the geographic usage and services allowed for the application
terminalversionno	9F09 - Version number assigned by the payment system for the application
issueractiondefault	9F0D - Specifies the issuer's conditions that cause a transaction to be rejected if it might have been approved online, but the terminal is unable to process the transaction online
issueractiondenial	9F0E - Specifies the issuer's conditions that cause the denial of a transaction without attempt to go online
issueractiononline	9F0F - Specifies the issuer's conditions that cause a transaction to be transmitted online
issuerdata	9F10 - Contains proprietary application data for transmission to the issuer in an online transaction
terminalcountrycode	9F1A - Indicates the country of the terminal, represented according to ISO 3166
terminalserialnum	9F1E - Unique and permanent serial number assigned to the IFD by the manufacturer
cryptogram	9F26 - Cryptogram returned by the ICC in response of the GENERATE AC command
cryptoid	9F27 - Indicates the type of cryptogram and the actions to be performed by the terminal
terminalcapprofile	9F33 - Indicates the card data input, CVM, and security capabilities of the terminal
cvresults	9F34 - Indicates the results of the last CVM performed
terminaltype	9F35 - Indicates the environment of the terminal, its communications capability, and its operational control
transcounter	9F36 - Counter maintained by the application in the ICC (incrementing the ATC is managed by the ICC)
randomnumber	9F37 - Value to provide variability and uniqueness to the generation of a cryptogram
transrefcurrencycode	9F3C - Code defining the common currency used by the terminal in case the Transaction Currency Code is different from the Application Currency Code
additionaltermcapability	9F40 - Indicates the data input and output capabilities of the terminal
transseqcounter	9F41 - Counter maintained by the terminal that is incremented by one for each transaction
iccdynamicnumber	

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			9F4C - Time-variant number generated by the ICC, to be captured by the terminal
		transcatcode	9F53 - Indicates the type of transaction being processed
		issuerscriptresult	9F5B - Present if scripts were sent by Issuer in original response
		formfactorindicator	9F6E - Indicates the form factor of the consumer payment device
		customerexcddata	9F7C - In US contactless transactions, issuer proprietary info

**Credit Card Authentication Sample 2.2****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>2</service>
<acctid>TEST0</acctid>
<subid></subid>
<amount>0.00</amount>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<curencycode></curencycode>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>

```



```
</trans_catalog>
</interface_driver>
```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTHENTICATE:TEST:::532311090:N::U</result>
<authcode>TEST</authcode>
<historyid>532311090</historyid>
<orderid>396487140</orderid>
<refcode>532311090</refcode>
<total>0.00</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

**Credit Card Post Capture**

Fields	Required	Description
transaction name	X	Credit card only
service	X	The 3 instructs Online Commerce Suite to process a POST or Capture a previous AUTH transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original AUTH amount if its not defined.
historykeyid	X	The history ID of the AUTH transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

**Credit Card Post Capture Sample 3.1****[INPUT]**

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>3</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>POST:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

## Credit Card Refund

Fields	Required	Description
transaction name	X	Credit card or ach
service	X	The 4 instructs Online Commerce Suite to process a Credit / Refund of a previous Sale transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

### Credit Card Refund Sample 4.1

#### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>4</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>CREDIT:TEST:::126476380:::</result>
<authcode>TEST</authcode>
```

```

<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Credit Card Void

Fields	Required	Description
transaction name	X	Credit card or ach
service	X	The 5 instructs Online Commerce Suite to process a VOID on a previous Sale transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

### Credit Card Void Sample 5.1

#### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>5</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>

```

```
</transaction>  
</trans_catalog>  
</interface_driver>
```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>  
  <trans_catalog>  
    <transaction>  
      <outputs>  
        <status>Approved</status>  
        <accountname>John Doe</accountname>  
        <result>VOID:TEST:::126476380:::</result>  
        <authcode>TEST</authcode>  
        <historyid>126476381</historyid>  
        <orderid>98452813</orderid>  
        <refcode>126476380</refcode>  
        <total>9.95</total>  
        <merchantordernumber></merchantordernumber>  
        <avsresult></avsresult>  
        <cvv2result></cvv2result>  
        <duplicate>0</duplicate>  
      </outputs>  
    </transaction>  
  </trans_catalog>  
</interface_driver>
```

## Standalone Credit/Refund

Fields	Required	Description
transaction name	X	Credit card and ach (if ach, check name, check ABA, checking account is required)
service	X	The 6 instructs Online Commerce Suite to process any Standalone Credit/Refund.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
ckname		First and Last Name
ckaba		Routing number
ckacct		Account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00.
dynamicdescriptor		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

**Standalone Credit/Refund Sample 6.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>6</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<curencycode></currencycode>
<ipaddress></ipaddress>
<email></email>
<memo></memo>
<merchantpin></merchantpin>
<amount>9.95</amount>
<custom1></custom1>
<custom2></custom2>
<custom3></custom3>
<custom4></custom4>
<custom5></custom5>
<custom6></custom6>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>CREDIT:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Credit Card Incremental Auth

Fields	Required	Description
transaction name	X	Incremental Auth only
service	X	The 20 instructs Online Commerce Suite to process an AUTH.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)



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email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
dynamicdescriptor		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

**Credit Card Incremental Auth Sample 7.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="Incremental Auth">
<inputs>
<service>20</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<currencycode></currencycode>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>

```

```
</trans_catalog>
</interface_driver>
```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

**Credit Card Pre-Auth Reversal**

Fields	Required	Description
transaction name	X	Pre-Auth Reversal
service	X	The 21 instructs Online Commerce Suite to process an AUTH.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center,

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		transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
cardpresent		1 indicates the card was present
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		

		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

### Credit Card Pre-Auth Reversal Sample 8.1

#### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="Pre-Auth Reversal">
<inputs>
<service>21</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<currencycode></currencycode>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>

```

```

<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

#### [OUTPUT]

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

# EBT Transactions

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## EBT Supported fields

(EBT Balance Inquiry / EBT Cash Benefit Balance Inquiry / EBT Cash Benefit Return/ EBT Cash Benefit Withdrawal / EBT Cash Benefit Sale / EBT FoodStamp Voucher Sale / EBT FoodStamp Return / EBT FoodStamp Sale / EBT FoodStamp Balance Inquiry)

Fields	Required	Description
transaction name	X	creditcard
service	X	32 = EBT Balance Inquiry 33 = EBT Cash Benefit Balance Inquiry 34 = EBT Cash Benefit Return 35 = EBT Cash Benefit Withdrawal 36 = EBT Cash Benefit Sale 37 = EBT FoodStamp Voucher Sale 38 = EBT FoodStamp Return 39 = EBT FoodStamp Sale 40 = EBT FoodStamp Balance Inquiry
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ebtapprovalcode		EBT Approval Code
voucherserialnumber		Voucher Serial Number
ccnum		Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon		Expiration month (12) of the consumer credit card.
expyear		Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata	X	The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
cashbackamount		Transaction dollar amount in US dollars in the form of 1.00.

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customerid		Encrypted PIN pad data. Includes KSN data followed by the PIN data
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
dlnum		Driver License Number
ssnum		Social Security Number
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
cardpresent		1 indicates the card was present
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle



		5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

## EBT Transaction Sample 9.0

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>32</service>
<acctid></acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ebtapprovalcode></ebtapprovalcode>
<voucherserialnumber></voucherserialnumber>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<curencycode></curencycode>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cashbackamount></cashbackamount>
<customerid></customerid>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>

```

```

<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
<cash_balance></cash_balance>
<food_balance></food_balance>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**EBT Void**

Fields	Required	Description
transaction name	X	creditcard
service	X	The 41 instructs Online Commerce Suite to process a VOID on a previous EBT transaction.

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acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount		Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

### EBT Void Sample 9.0a

#### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>41</service>
<acctid></acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host></server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status></status>
<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
```

```
<duplicate>0</duplicate>  
</outputs>  
</transaction>  
</trans_catalog>  
</interface_driver>
```

# Debit Card Transactions

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## Debit Card Sale

Fields	Required	Description
transaction name	X	creditcard
service	X	The 11 instructs Online Commerce Suite to process Debit.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum		Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon		Expiration month (12) of the consumer credit card.
expyear		Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata	X	The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
cashbackamount	X	Transaction dollar amount in US dollars in the form of 1.00.
customerid	X	Encrypted PIN pad data. Includes KSN data followed by the PIN data
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.

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shipcountry		The consumers shipping zip.
dlnum		Driver License Number
ssnum		Social Security Number
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
cardpresent	X	1 indicates the card was present
cardpresentreader	X	1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		

		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.	
emvdata		emvflag	Must be set to 1 for an EMV transaction
		interchangeprofile	82 - Indicates the capabilities of the card to support specific functions in the application
		dedicatedfilename	84 - Identifies the name of the DF as described in ISO/IEC 7816-4
		termverresults	95 - Status of the different functions as seen from the terminal
		secondarypinblock	0C0B - Discover also allows the cardholder to change pins at the terminal so LISO needs to allow for the secondary PIN Block. This is the encrypted PIN Block sent from the terminal.
		applicationid	4F - Identifies the application as described in ISO/IEC 7816-5
		languagepreference	5F2D - 1-4 languages stored in order of preference, each represented by 2 alphabetical characters according to ISO 639 Note: EMVCo strongly recommends that cards be personalised with data element '5F2D' coded in lowercase, but that terminals accept the data element whether it is coded in upper or lower case.
		panseqnumber	5F34 - Identifies and differentiates cards with the same PAN
		terminaltransdate	9A - Local date that the transaction was authorised
		transactionstatus	9B - Indicates the functions performed in a transaction
		cryptotranstype	9C - Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code
		aidterminal	9F06 - Identifies the application as described in ISO/IEC 7816-5
		appusagecontrol	9F07 - Indicates issuer's specified restrictions on the geographic usage and services allowed for the application
		terminalversionno	9F09 - Version number assigned by the payment system for the application
		issueractiondefault	9F0D - Specifies the issuer's conditions that cause a transaction to be rejected if it might have been approved online, but the terminal is unable to process the transaction online
		issueractiondenial	9F0E - Specifies the issuer's conditions that cause the denial of a transaction without attempt to go online
		issueractiononline	9F0F - Specifies the issuer's conditions that cause a transaction to be transmitted online
		issuerdata	9F10 - Contains proprietary application data for transmission to the issuer in an online transaction

		terminalcountrycode	9F1A - Indicates the country of the terminal, represented according to ISO 3166
		terminalserialnum	9F1E - Unique and permanent serial number assigned to the IFD by the manufacturer
		cryptogram	9F26 - Cryptogram returned by the ICC in response of the GENERATE AC command
		cryptoid	9F27 - Indicates the type of cryptogram and the actions to be performed by the terminal
		terminalcapprofile	9F33 - Indicates the card data input, CVM, and security capabilities of the terminal
		cvresults	9F34 - Indicates the results of the last CVM performed
		terminaltype	9F35 - Indicates the environment of the terminal, its communications capability, and its operational control
		transcounter	9F36 - Counter maintained by the application in the ICC (incrementing the ATC is managed by the ICC)
		randomnumber	9F37 - Value to provide variability and uniqueness to the generation of a cryptogram
		transrefcurrencycode	9F3C - Code defining the common currency used by the terminal in case the Transaction Currency Code is different from the Application Currency Code
		additionaltermcapability	9F40 - Indicates the data input and output capabilities of the terminal
		transseqcounter	9F41 - Counter maintained by the terminal that is incremented by one for each transaction
		iccdynamicnumber	9F4C - Time-variant number generated by the ICC, to be captured by the terminal
		transcatcode	9F53 - Indicates the type of transaction being processed
		issuerscriptresult	9F5B - Present if scripts were sent by Issuer in original response
		formfactorindicator	9F6E - Indicates the form factor of the consumer payment device
		customerexcddata	9F7C - In US contactless transactions, issuer proprietary info

## Debit Card Sale Sample 9.1

### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>11</service>
<acctid>TEST0</acctid>
<subid></subid>
```



```

<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<curencycode></currencycode>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cashbackamount></cashbackamount>
<customerid></customerid>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## [OUTPUT]

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>

```

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```

<accountname>John Doe</accountname>
<result>DEBIT:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Debit Card Return

Fields	Required	Description
transaction name	X	creditcard
service	X	The 26 instructs Online Commerce Suite to process Debit Return.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum		Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon		Expiration month (12) of the consumer credit card.
expyear		Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata	X	The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
cashbackamount		Transaction dollar amount in US dollars in the form of 1.00.
customerid	X	Encrypted PIN pad data. Includes KSN data followed by the PIN data
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.

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billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
dlnum		Driver License Number
ssnum		Social Security Number
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
cardpresent	X	1 indicates the card was present
cardpresentreader	X	1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle

		9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

## Debit Card Return Sample 9.2

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>26</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<curencycode></curencycode>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cashbackamount></cashbackamount>
<customerid></customerid>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>

```

```
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>DEBITRETURN:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

# ACH Transaction

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## ACH Sale

Fields	Required	Description
transaction name	X	credit card and ach (if ach, check name, check ABA, check account is required)
service	X	The 2 instructs Online Commerce Suite to process an SALE.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
ckname		First and Last Name
ckaba		Routing number
ckacct		Account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
ckimagefront	Â	Front image of the check. Maximum of 20K.
ckimageback	Â	Back image of the check. Maximum of 20K.
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.

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shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		

	Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.
--	---

## ACH Sale Sample 11.1

### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>2</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ckname></ckname>
<ckaba></ckaba>
<ckacct></ckacct>
<ckno></ckno>
<cktype></cktype>
<curencycode></currencycode>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
```



```

<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>CHECKAUTH:TEST:::126558434::: </result>
<authcode>TEST</authcode>
<historyid>126558434</historyid>
<orderid>98512982</orderid>
<refcode>126558434</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## ACH Void

Fields	Required	Description
transaction name	X	ACH only
service	X	The 5 instructs Online Commerce Suite to process a VOID against a previous External ACH Sale/Consumer Disbursement transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
historykeyid	X	The history id of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

## ACH Void Sample 12.1

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>5</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>

```

```

<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHVOID:::13514261:::</result>
<authcode></authcode>
<historyid>135145261</historyid>
<orderid>10455412</orderid>
<refcode>135145261</refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**ACH Credit/Refund**

Fields	Required	Description
transaction name	X	Credit card or ach
service	X	The 4 instructs Online Commerce Suite to process a Credit / Refund of a previous Sale transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

**ACH Credit/Refund Sample 13.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>4</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHREFUND::::13514261:::</result>
<authcode></authcode>
<historyid>135145261</historyid>
<orderid>10455412</orderid>
<refcode>135145261</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Check 21 Transactions

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

### Check 21 Sales

Fields	Required	Description
transaction name	X	Check 21 only.
service	X	The 27 instructs Online Commerce Suite to process an Check 21 SALE.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ckname	X	First and Last Name
ckaba	X	Routing number
ckacct	X	Account number
ckno	X	Check number
ckaccttypedesc	X	One of the following: Personal Checking Personal Savings Business Checking Business Savings
ckaccttype		1 = Checking Account 2 = Savings Account
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
currencycode		Three-letter ISO4217 (refer to Appendix D)
verificationflag		1 = Activate Verification for the supplied info (drivers license number, SSN, phone, check number)
dlnum		Driver License Number
ssnum		Social Security Number
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.

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custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

### Check 21 Sale Sample 14.1

#### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="check 21">
<inputs>
<service>27</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<curencycode></curencycode>
<ckname></ckname>
<ckaba></ckaba>
<ckacct></ckacct>
<ckno></ckno>
<ckaccttype></ckaccttype>
<cktype></cktype>
    
```

```

<ckaccttypedesc></ckaccttypedesc>
<cktype></cktype>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<verificationflag></verificationflag>
<ssnum></ssnum>
<dlnum></dlnum>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACH:1104110104:::135128506:::</result>
<authcode></authcode>
<historyid>135128506</historyid>
<orderid>104532348</orderid>
<refcode>135128506</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Check 21 Void

Fields	Required	Description
transaction name	X	Check 21 only.
service	X	The 28 instructs Online Commerce Suite to process a VOID against a previous Check 21 Sale/Consumer Disbursement transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
historykeyid	X	The history id of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

### Check 21 Void Sample 15.1

#### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="check 21">
<inputs>
<service>28</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHVOID:::13514261:::</result>
<authcode></authcode>
<historyid>135145261</historyid>
<orderid>10455412</orderid>
```

```

<refcode>135145261</refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Check 21 Credit/Refund

Fields	Required	Description
transaction name	X	Check 21 only.
service	X	The 29 instructs Online Commerce Suite to process a Credit / Refund of a previous Check 21 Sale transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

## Check 21 Credit/Refund Sample 16.1

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="check 21">
<inputs>
<service>29</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>

```



</interface\_driver>

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHREFUND::::13514261:::</result>
<authcode></authcode>
<historyid>135145261</historyid>
<orderid>10455412</orderid>
<refcode>135145261</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

## 3rd Party Check Processing Service Providers

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

### External ACH Sale

Fields	Required	Description
transaction name	X	ACH only
service	X	The 14 instructs Online Commerce Suite to process an Extended ACH SALE.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ckname	X	First and Last Name
ckaba	X	Routing number
ckacct	X	Account number
ckno	X	Check number
ckaccttypedesc	X	One of the following: Personal Checking Personal Savings Business Checking Business Savings
ckaccttype		1 = Checking Account 2 = Savings Account
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
currencycode		Three-letter ISO4217 (refer to Appendix D)
verificationflag		1 = Activate Verification for the supplied info (drivers license number, SSN, phone, check number)
dlnum		Driver License Number
ssnum		Social Security Number
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.

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custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

### External ACH Sale Sample 17.1

#### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>14</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<curencycode></curencycode>
<ckname></ckname>
<ckaba></ckaba>
<ckacct></ckacct>
<ckno></ckno>
<ckaccttype></ckaccttype>
<cktype></cktype>
    
```

```

<ckaccttypedesc></ckaccttypedesc>
<cktype></cktype>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<verificationflag></verificationflag>
<ssnum></ssnum>
<dlnum></dlnum>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACH:1104110104:::135128506:::</result>
<authcode></authcode>
<historyid>135128506</historyid>
<orderid>104532348</orderid>
<refcode>135128506</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## External ACH Consumer Disbursement

Fields	Required	Description
transaction name	X	ACH only
service	X	The 15 instructs Online Commerce Suite to process an External ACH Consumer Disbursement.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ckname	X	First and Last Name
ckaba	X	Routing number
ckacct	X	Account number
Ckno	X	Check number
ckaccttypedesc	X	One of the following: Personal Checking Personal Savings Business Checking Business Savings
ckaccttype		1 = Checking Account 2 = Savings Account
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
currencycode		Three-letter ISO4217 (refer to Appendix D)
dlnum		Driver License Number
ssnum		Social Security Number
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)

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email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax = 6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

### External ACH Consumer Disbursement Sample 18.1

#### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>15</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<currencycode></currencycode>
<ckname></ckname>
<ckaba></ckaba>
<ckacct></ckacct>
<ckno></ckno>
<ckaccttype></ckaccttype>
<cktype></cktype>
<ckaccttypedesc></ckaccttypedesc>
<cktype></cktype>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
    
```

```

<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<ipaddress></ipaddress>
<email></email>
<phone></phone>
<ssnum></ssnum>
<dlnum></dlnum>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHCREDIT:1104110251:::135128604:::</result>
<authcode></authcode>
<historyid>135128604</historyid>
<orderid>104532440</orderid>
<refcode>135128604</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## External ACH Credit/Refund

Fields	Required	Description
transaction name	X	ACH only
service	X	The 16 instructs Online Commerce Suite to process a Credit / Refund of a previous Extended ACH Sale transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

### External ACH Credit/Refund Sample 19.1

#### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>16</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHREFUND:::13514261:::</result>
<authcode></authcode>
```



```

<historyid>135145261</historyid>
<orderid>10455412</orderid>
<refcode>135145261</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## External ACH Void

Fields	Required	Description
transaction name	X	ACH only
service	X	The 17 instructs Online Commerce Suite to process a VOID against a previous Extended ACH Sale/Consumer Disbursement transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
historykeyid	X	The history id of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

## External ACH Void Sample 20.1

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="ach">
<inputs>
<service>17</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>

```

</interface\_driver>

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>EXTACHVOID:::13514261:::</result>
<authcode></authcode>
<historyid>135145261</historyid>
<orderid>10455412</orderid>
<refcode>135145261</refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

# Transaction Retrieve

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## Transaction Retrieve

Fields	Required	Description
transaction name	X	Credit card or ach.
service	X	Service The 19 instructs Online Commerce Suite to Retrieve the last result of the transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin	X	The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
ipaddress		Consumers IP address
merchantordernumber	X	Customers unique alpha-numeric number

## Transaction Retrieve Sample 21.1

### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>19</service>
<acctid>TEST0</acctid>
<subid></subid>
<merchantpin></merchantpin>
<ipaddress></ipaddress>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>POST:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
```

```
<orderid>98452813</orderid>  
<refcode>126476380</refcode>  
<total>9.95</total>  
<merchantordernumber></merchantordernumber>  
<avsresult></avsresult>  
<cvv2result></cvv2result>  
<duplicate>0</duplicate>  
</outputs>  
</transaction>  
</trans_catalog>  
</interface_driver>
```

## Stored Profile

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

### Profile Add

Fields	Required	Description
transaction name	X	credit card and ach (if ach, check name, check ABA, check account is required)
service	X	The 7 action instructs Online Commerce Suite to add a stored payment method
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum	X	Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon	X	Expiration month (12) of the consumer credit card.
expyear	X	Expiration year of the consumers credit card in yyyy format
profileactiontype	X	0 - will validate the credit card with a \$1.00 Authorization. If the Authorization is successful the card will be added to the vault. ACH and EXTACH payment types will only have basic validation performed on them before they are added to the vault. 1 - will run an Authorization of the amount requested. If the Authorization is successful the card will be added to the vault. The action is only allowed for credit cards. 2 - will run a Sale for the amount requested. If the Sale is successful the payment type will be added to the vault. 3 - will import the payment type to the vault and no other transaction will be run. (Note) Not passing or setting this name/value will default to "0".
ckname		First and Last Name
ckaba		Routing number
ckacct		Account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.

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billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

**Profile Add Sample 22.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>7</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername>John Doe</consumername>
<billaddr1>1110 main st</billaddr1>
<billaddr2></billaddr2>
<billcity>Los Angeles</billcity>
<billstate>CA</billstate>
<billzip>90025</billzip>
<billcountry>US</billcountry>
<ipaddress>123.123.123.123</ipaddress>
<email>test@merchantpartners.com</email>
<phone></phone>
<ccname>John Doe</ccname>
<ccnum>5454545454545454</ccnum>
<cctype>Visa</cctype>
<expmon>05</expmon>
<expyear>2010</expyear>
<cvv2></cvv2>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476380</historyid>
<orderid>98452812</orderid>
<userprofileid>5860346</userprofileid>
<refcode>126476380</refcode>
<total>1.0</total>
<merchantordernumber></merchantordernumber>
<last4digits>5454</last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>

```

```
</transaction>  
</trans_catalog>  
</interface_driver>
```



## Profile Sale

Fields	Required	Description
transaction name	X	credit card and ach.
service	X	The 8 instructs Online Commerce Suite to process an SALE.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
userprofileid	X	userprofileid of the payment method
last4digits	X	Last 4 digit of account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
dynamicdescriptor		

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		This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS.	
cardpresentreader		1 indicates a card reader was present	
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)	
chargeypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop	
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.	
checkindate		The date (yymmdd) that the guest checked in to the hotel	
checkoutdate		The date (yymmdd) that the guest checked out of the hotel	
purchaseid		Hotel Folio number (25 characters alphanumeric)	
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500	
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.	
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.	
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle	
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing	
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.	
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.	
fsa		health care flag	0 is off 1 is on
		rxamount	Qualified amount.
purchasecardlevel2		pocustmerrefid	Cardholders Customer ID or Reference Number for the Purchase Card.
		taxamount	Total tax charged for the transaction.
		taxexempt	1 = a tax exempt purchase. 0 = a taxable purchase.

**Profile Sale Sample 23.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>8</service>
<acctid>TEST0</acctid>
<subid></subid>
<ipaddress>123.123.123.123</ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<userprofileid>5860346</userprofileid>
<last4digits>5454</last4digits>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<userprofileid>5860346</userprofileid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<last4digits>5454</last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Profile Update

Fields	Required	Description
transaction name	X	Credit card and ach.
service	X	The 9 instructs Online Commerce Suite to Update a Profile
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname		Consumer name as it appears on the credit card.
ccnum		Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon		Expiration month (12) of the consumer credit card.
expyear		Expiration year of the consumers credit card in yyyy format
userprofileid	X	userprofileid of the payment method
last4digits	X	last4digits = Last 4 digit of account number.
ckname		First and Last Name
ckaba		Routing number
ckacct		Account number
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)

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custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number

**Profile Update Sample 24.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>9</service>
<acctid>TEST0</acctid>
<subid></subid>
<consumername></consumername>
<billaddr1>1111 main st</billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate> </billstate>
<billzip></billzip>
<billcountry> </billcountry>
<ipaddress>123.123.123.123</ipaddress>
<email></email>
<phone></phone>
<userprofileid>5860346</userprofileid>
<last4digits>5454</last4digits>
<ccname></ccname>
<ccnum></ccnum>
<cctype> </cctype>
<expmon></expmon>
<expyear></expyear>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<userprofileid>5860346</userprofileid>
<refcode>126476380</refcode>
<total>1.0</total>
<merchantordernumber></merchantordernumber>
<last4digits>5454</last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>

```

```
</outputs>  
</transaction>  
</trans_catalog>  
</interface_driver>
```

## Profile Delete

Fields	Required	Description
transaction name	X	Credit card and ach.
service	X	The 10 instructs Online Commerce Suite to delete a Profile.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
userprofileid	X	userprofileid of the payment method that needs update.
last4digits	X	Last 4 digit of account number.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED

### Profile Delete Sample 25.1

#### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>10</service>
<acctid>TEST0</acctid>
<subid></subid>
<userprofileid>5860346</userprofileid>
<last4digits>5454</last4digits>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

#### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname></accountname>
<result> PROFILEDELETE:Success:::0:::</result>
<authcode></authcode>
<historyid>0</historyid>
<orderid>0</orderid>
<userprofileid></userprofileid>
<refcode></refcode>
<total>0.00</total>
<merchantordernumber></merchantordernumber>
<last4digits></last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
```



```
<duplicate>0</duplicate>  
</outputs>  
</transaction>  
</trans_catalog>  
</interface_driver>
```

## Profile Retrieve

Fields	Required	Description
transaction name	X	Credit card and ach.
service	X	The 12 instructs the Online Commerce Suite to Retrieve the CC or ACH account numbers along with billing address.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
userprofileid	X	userprofileid of the payment method that needs update.
last4digits	X	Last 4 digit of account number.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED

**Profile Retrieve Sample 26.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>12</service>
<acctid>TEST0</acctid>
<subid></subid>
<userprofileid>5860346</userprofileid>
<last4digits>5454</last4digits>
<merchantpin>testpin</merchantpin>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname></accountname>
<result> PROFILERETRIEVE:Success:::0:::</result>
<authcode></authcode>
<historyid>0</historyid>
<orderid>0</orderid>
<userprofileid></userprofileid>
<refcode></refcode>
<total>0.00</total>
<merchantordernumber></merchantordernumber>
<last4digits></last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
<ccnum_decrypt>5454545454545454</ccnum_decrypt>
<expdate_decrypt>03/2009</expdate_decrypt>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Profile Credit

Fields	Required	Description
transaction name	X	Credit card and ach.
service	X	The 13 instructs Online Commerce Suite to process a Credit.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
userprofileid	X	userprofileid of the payment method
last4digits	X	Last 4 digit of account number.
ckno		Check number
cktype		SEC code for transaction (WEB, POP, ARC, PPD, ICL, RCK, BOC, TEL)
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata		The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.
billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
dlnum		Driver License Number
ssnum		Social Security Number
cardpresent		1 indicates the card was present
cardpresentreader		1 indicates a card reader was present

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industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

**Profile Credit Sample 27.1****[INPUT]**

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>13</service>
<acctid>TEST0</acctid>
<subid></subid>
<ipaddress>123.123.123.123</ipaddress>
<email></email>
<phone></phone>
<memo></memo>
<userprofileid>5860346</userprofileid>
<last4digits>5454</last4digits>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount>9.95</amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname>John Doe</accountname>
<result>AUTH:TEST:::126476380:::</result>
<authcode>TEST</authcode>
<historyid>126476381</historyid>
<orderid>98452813</orderid>
<userprofileid>5860346</userprofileid>
<refcode>126476380</refcode>
<total>9.95</total>
<merchantordernumber></merchantordernumber>
<last4digits>5454</last4digits>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## **Profile Import (Deprecated. Refer to Profile Add)**

# Stored Value Transactions

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## Stored Value Supported fields

(SV Sale / SV Add Value / SV Issue / SV Deactivate / SV Balance Inquiry)

Fields	Required	Description
transaction name	X	creditcard
service	X	42 = SV Sale 43 = SV Add Value 44 = SV Issue 45 = SV Deactivate 46 = SV Balance Inquiry
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
ccname	X	Consumer name as it appears on the credit card.
ccnum		Consumers credit card number. Do not include spaces. If the 3DES encryption option has been enabled on the account, this value must be encrypted using the 3DES key assigned to the Account ID. Use the FRISK Configuration Options menu in the Online Merchant Center to view and configure the 3DES encryption option.
expmon		Expiration month (12) of the consumer credit card.
expyear		Expiration year of the consumers credit card in yyyy format
cvv2		Credit card cvv2/cvc2 code
currencycode		Three-letter ISO4217 (refer to Appendix D)
swipedata	X	The swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions.
encryptedswipedata		The encrypted swipe data from the magnetic strip on the back of a credit or debit card. Used for card-present transactions. Format of this data depends on the device. Refer to Appendix E for string format.
encryptedreadertype		The value of this field depends on the encrypted swipe device used. This field has to be used if encryptedswipedata is used. 1 = Magtek (Most Magtek devices), 2 = Magtek IPAD, 3 = IDTECH, 4 = Ingenico iSC250,350 / iPP250,350.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
amount	X	Transaction dollar amount in US dollars in the form of 1.00. For CC it will default to \$1 if not provided.
cashbackamount		Transaction dollar amount in US dollars in the form of 1.00.
customerid		Encrypted PIN pad data. Includes KSN data followed by the PIN data
billaddr1		The consumers billing address.
billaddr2		The consumers billing address.
billcity		The consumers billing city.
billstate		The consumers billing state.
billcity		The consumers billing city.
billzip		The consumers billing zip.



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billcountry		The consumers billing country.
shipaddr1		The consumers shipping address.
shipaddr2		The consumers shipping address.
shipcity		The consumers shipping city.
shipstate		The consumers shipping state.
shipzip		The consumers shipping city.
shipcountry		The consumers shipping zip.
dlnum		Driver License Number
ssnum		Social Security Number
custom1		32 char alphanumeric string for data storage (included in reports)
custom2		32 char alphanumeric string for data storage (included in reports)
custom3		32 char alphanumeric string for data storage (included in reports)
custom4		32 char alphanumeric string for data storage (included in reports)
custom5		32 char alphanumeric string for data storage (included in reports)
custom6		32 char alphanumeric string for data storage (included in reports)
email		Consumer email address
memo		Comments associated to this profile
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number
cardpresent		1 indicates the card was present
cardpresentreader		1 indicates a card reader was present
industrycode	*	Industry Code One character value: "H": Hotel / "F": food(restaurants) / "R": Retail (*Only required for TCMP)
chargetypeamx		Code indicating whether the primary charge is Lodging, Restaurant, or Gift Shop. One character value: 1 Hotel, 2 Restaurant, 3 Gift Shop
roomrateamt		Room rate dollar amount in US dollars in the form of 0.00.
checkindate		The date (yymmdd) that the guest checked in to the hotel
checkoutdate		The date (yymmdd) that the guest checked out of the hotel
purchaseid		Hotel Folio number (25 characters alphanumeric)
property		Prestigious property indicator. Used by participants in Visa Prestigious Lodging Program. A transaction amount of \$1 should be entered in the amount field if the merchant wishes the transaction to participate in the program. Number value: 500, 1000, or 1500
extracharges		Extra charges 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder received at checkout. Digit values: 0: no extra, 2: Restaurant, 3: Gift Shop, 4: Mini-bar, 5: Telephone, 6: Other, 7: Laundry. Example: "240000" indicates restaurant and mini-bar charges.
recur_create		Creates a recurring billing record for a consumer. Set recur_create=1 to create a recurring billing record.
recur_billingcycle		0 = No Recurring Billing Cycle 1 = Weekly Recurring Billing Cycle 2 = Monthly Recurring Billing Cycle 3 = Quarterly Recurring Billing Cycle 4 = Semi-Annual Recurring Billing Cycle 5 = Annual Recurring Billing Cycle 6 = Bi-Weekly Recurring Billing Cycle 7 = Bi-Annual Recurring Billing Cycle 8 = Quad Weekly (28 day) Recurring Billing Cycle 9 = One Time Recurring Billing Cycle 10 = Daily Recurring Billing Cycle 11 = Bi-Monthly Recurring Billing Cycle
recur_billingmax		

		Maximum number of times a consumers account is debited through recurring billing. For example, setting recur_billingmax =6 bills the consumer 6 times. -1 = Unlimited number of times 0 = No Recurring Billing
recur_start		Number of days after an initial payment where the consumer is debited on a recurring cycle.
recur_amount		Amount the consumer is to be re-debited on the recurring cycle. Do not use a dollar sign.

## Stored Value Transaction Sample

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>42</service>
<acctid></acctid>
<subid></subid>
<consumername></consumername>
<merchantpin></merchantpin>
<ccname></ccname>
<ccnum></ccnum>
<expmon></expmon>
<expyear></expyear>
<swipedata></swipedata>
<curencycode></currencycode>
<billaddr1></billaddr1>
<billaddr2></billaddr2>
<billcity></billcity>
<billstate></billstate>
<billzip></billzip>
<billcountry></billcountry>
<shipaddr1></shipaddr1>
<shipaddr2></shipaddr2>
<shipcity></shipcity>
<shipstate></shipstate>
<shipzip></shipzip>
<shipcountry></shipcountry>
<cashbackamount></cashbackamount>
<customerid></customerid>
<cardpresent></cardpresent>
<cardpresentreader></cardpresentreader>
<industrycode></industrycode>
<chargetypeamx></chargetypeamx>
<roomrateamx></roomrateamx>
<checkindate></checkindate>
<checkoutdate></checkoutdate>
<purchaseid></purchaseid>
<property></property>
<extracharges></extracharges>
<ipaddress></ipaddress>
<email></email>

```

```

<phone></phone>
<memo></memo>
<recur_create></recur_create>
<recur_billingcycle></recur_billingcycle>
<recur_billingmax></recur_billingmax>
<recur_start></recur_start>
<recur_amount></recur_amount>
<merchantpin></merchantpin>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host>TestHost</server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```

<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status>Approved</status>
<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
<cash_balance></cash_balance>
<food_balance></food_balance>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**Stored Value Refund**

Fields	Required	Description
transaction name	X	creditcard
service	X	The 47 instructs Online Commerce Suite to process a Refund on a previous transaction.
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED

amount		Transaction dollar amount in US dollars in the form of 1.00. It will default to original Sale amount if its not defined.
historykeyid	X	The history ID of the Sale transaction.
orderkeyid	X	The order id of the Sale transaction.
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

## Stored Value Refund Sample

### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>47</service>
<acctid></acctid>
<subid></subid>
<merchantpin></merchantpin>
<orderkeyid></orderkeyid>
<historykeyid></historykeyid>
<ipaddress></ipaddress>
<amount></amount>
<merchantordernumber></merchantordernumber>
<server_host></server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status></status>
<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

# Batch Settlements

The following tables describe required and optional data elements that can be **sent** to the Merchant Partners gateway to complete a transaction.

## Batch Settlement (Settlement a Single Batch Number)

Fields	Required	Description
transaction name	X	creditcard
service	X	The 24 instructs Online Commerce Suite to process a Batch Settlement on a single Batch Number
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
batchnumber	X	Batch Number of the Open Batch
cardidtype		
ipaddress		Consumers IP address
merchantordernumber		Customers unique alpha-numeric number

## Batch Settle Sample

### [INPUT]

```
<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>24</service>
<acctid></acctid>
<subid></subid>
<merchantpin></merchantpin>
<batchnumber></batchnumber>
<cardidtype></cardidtype>
<ipaddress></ipaddress>
<merchantordernumber></merchantordernumber>
<server_host></server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>
```

### [OUTPUT]

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status></status>
```

```

<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>

```

## Batch Settle All (Settles All Open Batches)

Fields	Required	Description
transaction name	X	creditcard
service	X	The 25 instructs Online Commerce Suite to process a Batch Settlement on a single Batch Number
acctid	X	Five character alphanumeric Account ID assigned to the merchant. Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing.
subid		Merchant Sub ID. If unsure whether you have one, leave blank.
merchantpin		The 32 character Merchant PIN code generated from the Online Merchant Center. When the Merchant PIN option has been enabled in the Online Merchant Center, transactions without a valid Merchant PIN will be declined with a decline response of DECLINED:1101150001:DECLINED
cardidtype		
ipaddress		Consumers IP address

## Batch Settle All Sample

### [INPUT]

```

<?xml version="1.0"?>
<interface_driver>
<trans_catalog>
<transaction name="creditcard">
<inputs>
<service>25</service>
<acctid></acctid>
<subid></subid>
<merchantpin></merchantpin>
<cardidtype></cardidtype>
<ipaddress></ipaddress>
<merchantordernumber></merchantordernumber>
<server_host></server_host>
</inputs>
</transaction>
</trans_catalog>
</interface_driver>

```

**[OUTPUT]**

```
<?xml version="1.0"?><interface_driver>
<trans_catalog>
<transaction>
<outputs>
<status></status>
<accountname></accountname>
<result></result>
<authcode></authcode>
<historyid></historyid>
<orderid></orderid>
<refcode></refcode>
<total></total>
<merchantordernumber></merchantordernumber>
<avsresult></avsresult>
<cvv2result></cvv2result>
<duplicate>0</duplicate>
</outputs>
</transaction>
</trans_catalog>
</interface_driver>
```

## Transaction Results

Field	Description
status	Approved or Declined.
accountname	Name on the account.
authcode	Authorization response: Refer to Appendix A.
historyid	History id (Unique ID) for this transaction. Will be required for 2 step processes (Post/Capture, Refunds, etc).
orderid	Order id of original transaction. Will be required for 2 step processes (Post/Capture, Refunds, etc).
refcode	Identical to history id.
total	The total amount the transaction was processed for.
merchantordernumber	The Merchant Order Number used to process the transaction with.
last4digits	The last 4 digits of the account number.
avsresult	AVS response code.
cvv2result	CVV2 response code.
duplicate	Default is 0. 1=Duplicate transaction detected. The results of the original transaction will be returned.
paytype	Type of payment used (Visa, Amex, Check, etc).
userprofileid	(Profile Only). The User Profile ID (Unique ID) assigned to the Profile. Required for subsequent Profile transactions.
recurprice	(Recurring Only). The recurring amount.
recurcycle	(Recurring Only). The recurring billing cycle.
nextbillingdate	(Recurring Only). The recurring next billing date.
recurprice	(Recurring Only). The recurring amount.
ccnum_decrypt	(Profile Retrieve Only). The decrypted credit card number.
expdate_decrypt	(Profile Retrieve Only). The decrypted expiration date.
billaddr1	(Profile Retrieve Only). The Billing Address 1.
billaddr2	(Profile Retrieve Only). The Billing Address 2.
billcity	(Profile Retrieve Only). The Billing City.
billstate	(Profile Retrieve Only). The Billing State.
billzip	(Profile Retrieve Only). The Billing Zip.
billcountry	(Profile Retrieve Only). The Billing Country.
batchnumber	(Batch Status Only). The batch number.
opendate	(Batch Status Only). The Date of when this batch was opened.
closedate	(Batch Status Only). The Date of when this batch was closed.
lasttransactiondate	(Batch Status Only). The Date of when the last transaction was processed for this batch.
actioncode	(PARTIAL AUTH only). This will contain a code for Partial Auth Transaction. The total value will reflect the approved Partial Amount.
issuerscripttemplate1	71 - Contains proprietary issuer data for transmission to the ICC before the second GENERATE AC command
issuerscripttemplate2	72 - Contains proprietary issuer data for transmission to the ICC after the second GENERATE AC command
issueauthdata	91 - Data sent to the ICC for online issuer authentication



# Appendix A: Transaction Authorization Specification.

## Credit Card Approval response format

The transaction approval authorization response message consists of a string of eight fields delimited by the colon : character.

Here is an example of the format of the complete approval message:

AVSSALE: 123456:1234567890123:9:12345678: Y: AUTHNETSPECIFIC: M :PARTIAL

The following table describes each of the fields returned in the approval response message.

### Transaction Approval Authorization Response Format

Field	Description	Value
Transaction Type	Type of transaction submitted	SALE AVSSALE AUTH AVSAUTH POST AVSPOST VOICEPOST VOID CREDIT
Authorization Code	The six digit authorization or approval code provided by the authorizing network	Varies
Reference Number	Additional reference information provided by the authorizing network	Varies
Batch Number	Batch settlement number in which this transaction is included	Number
Transaction ID	Unique number assigned by the Online Commerce Suite to this transaction.	Number
AVS Result Code	Result code generated by the Address Verification System.	See Appendix B: AVS response codes
Auth Net Specific	Miscellaneous auth net message	
CVV2/CVC2 Result Code	One character result code generated by the CVV2/CVC2 system	See Appendix C: CVV2/CVC2 Response Codes
PARTIAL AUTH	Contains the ":PARTIAL" string if it's a Partial Auth	(Auth Net Specific). The "total" will reflect the approved Partial Auth Amount and an "actioncode" will also be returned.

## Credit Card Decline response format

The transaction decline authorization response message consists of the string DECLINE followed by two fields delimited by the colon : character.

Here is an example of the format of the complete approval message:

DECLINED: 1234567890: TEXT RESPONSE

The following table describes each of the fields returned in the approval response message.

### Transaction Decline Authorization Response

Field	Description	Value														
Transaction Result	Result of the transaction	DECLINE														
Decline Code	10 digit decline code.	<table><tr><td colspan="2">First Digit:</td></tr><tr><td>0</td><td>Authorizing network declined the transaction</td></tr><tr><td>1</td><td>Gateway declined the transaction</td></tr><tr><td>2</td><td>Authorizing network returned an error, forcing a decline</td></tr><tr><td>3</td><td>Gateway returned an error, forcing a decline</td></tr><tr><td colspan="2"></td></tr><tr><td>Digits 2-10</td><td>Internal decline number</td></tr></table>	First Digit:		0	Authorizing network declined the transaction	1	Gateway declined the transaction	2	Authorizing network returned an error, forcing a decline	3	Gateway returned an error, forcing a decline			Digits 2-10	Internal decline number
First Digit:																
0	Authorizing network declined the transaction															
1	Gateway declined the transaction															
2	Authorizing network returned an error, forcing a decline															
3	Gateway returned an error, forcing a decline															
Digits 2-10	Internal decline number															
Text Response	Text message indicating the reason for the decline.	Varies														

## Appendix B: AVS Response Codes

The following table defines AVS response codes returned from the Address Verification System.

Response Code	Definition
A	Street addresses matches, but the ZIP code does not. The first five numerical characters contained in the address match. However, the ZIP code does not match.
E	Ineligible transaction. The card issuing institution is not supporting AVS on the card in question.
N	Neither address nor ZIP matches. The first five numerical characters contained in the address do not match, and the ZIP code does not match.
R	Retry (system unavailable or timed out).
S	Card type not supported. The card type for this transaction is not supported by AVS. AVS can verify addresses for Visa cards, MasterCard, proprietary cards, and private label transactions.
U	Address information unavailable. The address information was not available at the issuer.
W	9 digit ZIP code matches, address does not. The nine digit ZIP code matches that stored at the issuer. However, the first five numerical characters contained in the address do not match.
X	Exact match (9 digit zip and address) Both the nine digit postal ZIP code as well as the first five numerical characters contained in the address match.
Y	Address and 5 digit zip match. Both the five digit postal ZIP code as well as the first five numerical characters contained in the address match.
Z	5 digit ZIP matches, but the address does not. The five digit postal ZIP code matches that stored at the VIC or card issuers center. However, the first five numerical characters contained in the address do not match.
<b>FOREIGN CODES:</b>	
B	Street address matches for international transaction. Postal Code not verified due to incompatible formats.
C	Street address and Postal Code not verified for international transaction due to incompatible format.
D	Street address and Postal Code match for international transaction.
P	Postal Code match for international transaction. Street address not verified due to incompatible formats.

## Appendix C: CVV2/CVC2 Response Codes

The following table defines CVV2/CVC2 response codes returned from the credit card authorizing network.

Response Code	Definition
<b>Space</b>	CVV2 processing not requested
<b>M</b>	CVV2/CVC2 Match
<b>N</b>	CVV2/CVC2 not matched
<b>P</b>	Not processed
<b>S</b>	CVV2 should be printed on the card, but it was indicated that the value was not present
<b>U</b>	Issuer does not support CVV2
<b>X</b>	Service provider did not respond

## Appendix D: Country and Currency Code

You must first verify that your credit card merchant account processor and the gateway support the currency code submitted prior to attempting any transactions other than those in **"U.S."** dollars.

The following table defines the country, currency code, and the requirement of decimals in amount fields. **"NONE"** indicates that the decimal is not required when setting the amount.

Country	Currency Code	Decimal
United Arab Emirates	AED	
Afghanistan	AFN	
Albania	ALL	
Armenia	AMD	
Netherlands Antilles	ANG	
Angola	AOA	
Argentina	ARS	
Australia	AUD	
Christmas Island	AUD	
Cocos (Keeling) Islands	AUD	
Heard and McDonald Islands	AUD	
Kiribati	AUD	
Nauru	AUD	
Norfolk Island	AUD	
Tuvalu	AUD	
Aruba	AWG	
Azerbaijan	AZN	
Bosnia and Herzegovina	BAM	
Barbados	BBD	
Bangladesh	BDT	
Bulgaria	BGN	
Bahrain	BHD	
Burundi	BIF	NONE
Bermuda	BMD	
Brunei	BND	
Singapore	BND	
Bolivia	BOB	
Bolivia	BOV	
Brazil	BRL	
Bahamas	BSD	

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Country	Currency Code	Decimal
Bhutan	BTN	
Botswana	BWP	
Belarus	BYR	NONE
Belize	BZD	
Canada	CAD	
Democratic Republic of Congo	CDF	
Liechtenstein	CHF	
Switzerland	CHF	
Chile	CLP	NONE
China	CNY	
Colombia	COP	
Colombia	COU	
Costa Rica	CRC	
Cuba	CUP	
Cape Verde	CVE	
Czech Republic	CZK	
Djibouti	DJF	NONE
Denmark	DKK	
Faroe Islands	DKK	
Greenland	DKK	
Dominican Republic	DOP	
Algeria	DZD	
Estonia	EEK	
Egypt	EGP	
Eritrea	ERN	
Ethiopia	ETB	
Andorra	EUR	
Austria	EUR	
Belgium	EUR	
Cyprus	EUR	
Finland	EUR	
France	EUR	
Germany	EUR	
Greece	EUR	
Ireland	EUR	

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Country	Currency Code	Decimal
Italy	EUR	
Kosovo	EUR	
Luxembourg	EUR	
Malta	EUR	
Monaco	EUR	
Montenegro	EUR	
Netherlands	EUR	
Portugal	EUR	
San Marino	EUR	
Slovenia	EUR	
Spain	EUR	
Vatican	EUR	
Fiji	FJD	
Falkland Islands	FKP	
British Indian Ocean Territory	GBP	
Isle of Man	GBP	
South Georgia and the South Sandwich Islands	GBP	
United Kingdom	GBP	
Georgia	GEL	
Ghana	GHS	
Gibraltar	GIP	
Gambia	GMD	
Guinea	GNF	NONE
Guatemala	GTQ	
Guyana	GYD	
Hong Kong	HKD	
Honduras	HNL	
Croatia	HRK	
Haiti	HTG	
Hungary	HUF	
Indonesia	IDR	
Israel	ILS	
Bhutan	INR	
India	INR	
Iraq	IQD	

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Country	Currency Code	Decimal
Iran	IRR	
Iceland	ISK	NONE
Jamaica	JMD	
Jordan	JOD	
Japan	JPY	NONE
Kenya	KES	
Kyrgyzstan	KGS	
Cambodia	KHR	
Comoros	KMF	NONE
North Korea	KPW	
South Korea	KRW	NONE
Kuwait	KWD	
Cayman Islands	KYD	
Kazakhstan	KZT	
Laos	LAK	
Lebanon	LBP	
Sri Lanka	LKR	
Liberia	LRD	
Lesotho	LSL	
Lithuania	LTL	
Latvia	LVL	
Libya	LYD	
Morocco	MAD	
Western Sahara	MAD	
Moldova	MDL	
Madagascar	MGA	
The former Yugoslav Republic of Macedonia	MKD	
Myanmar	MMK	
Mongolia	MNT	
Macau	MOP	
Mauritania	MRO	
Mauritius	MUR	
Maldives	MVR	
Malawi	MWK	
Mexico	MXN	



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Country	Currency Code	Decimal
Malaysia	MYR	
Mozambique	MZN	
Namibia	NAD	
Nigeria	NGN	
Nicaragua	NIO	
Norway	NOK	
Nepal	NPR	
Cook Islands	NZD	
New Zealand	NZD	
Niue	NZD	
Pitcairn	NZD	
Tokelau	NZD	
Oman	OMR	
Panama	PAB	
Peru	PEN	
Papua New Guinea	PGK	
Philippines	PHP	
Pakistan	PKR	
Poland	PLN	
Paraguay	PYG	NONE
Qatar	QAR	
Romania	RON	
Serbia	RSD	
Russia	RUB	
Rwanda	RWF	NONE
Saudi Arabia	SAR	
Solomon Islands	SBD	
Seychelles	SCR	
Sudan	SDG	
Sweden	SEK	
Brunei	SGD	
Singapore	SGD	
Saint Helena	SHP	
Slovakia	SKK	
Sierra Leone	SLL	

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Country	Currency Code	Decimal
Somalia	SOS	
Suriname	SRD	
São Tomé and Príncipe	STD	
Syria	SYP	
Swaziland	SZL	
Thailand	THB	
Tajikistan	TJS	
Turkmenistan	TMM	
Tunisia	TND	
Tonga	TOP	
Cyprus	TRY	
Turkey	TRY	
Trinidad and Tobago	TTD	
Taiwan	TWD	
Tanzania	TZS	
Ukraine	UAH	
Uganda	UGX	
American Samoa	USD	
Bermuda	USD	
British Indian Ocean Territory	USD	
British Virgin Islands	USD	
East Timor	USD	
Ecuador	USD	
El Salvador	USD	
Guam	USD	
Haiti	USD	
Marshall Islands	USD	
Micronesia	USD	
Northern Mariana Islands	USD	
Palau	USD	
Panama	USD	
Puerto Rico	USD	
Turks and Caicos Islands	USD	
United States	USD	
United States Virgin Islands	USD	

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Country	Currency Code	Decimal
Uruguay	UYU	
Uzbekistan	UZS	
Venezuela	VEF	
Vietnam	VND	
Vanuatu	VUV	NONE
Samoa	WST	
Cameroon	XAF	
Central African Republic	XAF	
Chad	XAF	
Congo	XAF	
Equatorial Guinea	XAF	NONE
Gabon	XAF	
Anguilla	XCD	
Antigua and Barbuda	XCD	
Dominica	XCD	
Grenada	XCD	
Montserrat	XCD	
Saint Kitts and Nevis	XCD	
Saint Lucia	XCD	
Saint Vincent and the Grenadines	XCD	
Benin	XOF	
Burkina Faso	XOF	
Côte d'Ivoire	XOF	
Guinea-Bissau	XOF	
Mali	XOF	
Niger	XOF	
Senegal	XOF	
Togo	XOF	
French Polynesia	XPF	NONE
New Caledonia	XPF	NONE
Wallis and Futuna	XPF	NONE
Yemen	YER	
South Africa	ZAR	
Zambia	ZMK	
Zimbabwe	ZWD	

## Appendix E: LineItems

The following table defines how the LineItems is formatted.

Line items are delimited by a "|" (Pipe) and should look like: LineItem | LineItem | LineItem (Spaces added for readability)  
Each Line item can contain multiple Item Product Codes. Item Product Codes (IPC) are delimited by ";" (Semi-Colon) and should look like:

IPC ; IPC ; IPC ; | IPC ; IPC ; IPC ; IPC (Spaces added for readability).

Each IPC has a value that is delimited by ":" (Full Colon). A full example is of two line items with multiple Item product codes per line item is as follows:

512:450;513:1.0000;518:3.00000;510:3.00|512:950;513:1.0000;518:1.00000;510:1.00

Item Product Code	Description	Fleet	Visa	MCARD
501	Alternate Item Number			x
502	Debit/Credit Indicator			x
503	Discount Amount; 9(6)v99			x
504	Discount Indicator			x
505	Discount Per Line; 99v99		x	
506	Extended Item Amount; 9(6)v99			x
507	Item Commodity Code		x	
508	Item Description		x	x
510	Line Item Total Cost; 9(6)v99	x	x	
511	Net/Gross Indicator			x
512	Product Code (See Appendix E-1)	x	x	x
513	Quantity/Num Units; 9(3)v9999	x	x	x
514	Service Code/Level (See Appendix E-2)	x		
515	Alternate Tax Amount; 99v99			x
516	Tax Rate Applied; 99v99			x
517	Tax Rate Applied			x
518	Unit Cost/Price; 9(6)v9999	x	x	x
519	Unit of Measure (See Appendix E-3)	x	x	x
520	VAT/Tax Amount; 9(6)v99		x	
521	VAT/Tax Rate; 99v99		x	
522	Discount Rate; 9(6)v99			x

### Appendix E-1: Product Codes

Product Code	Description
000	Not Used
001-099	Fuels
001	Unleaded Regular

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002	Unleaded Plus
003	Unleaded Super
004	Unleaded 4
005	Unleaded 5
006	Unleaded Methanol (5.7%)
007	Unleaded Plus Methanol (5.7%)
008	Super Unleaded Methanol (5.7% blend)
009	Unleaded Methanol (7.7%)
010	Unleaded Plus Methanol (7.7% blend)
011	Unleaded Ethanol (5.7%)
012	Unleaded Plus Ethanol (5.7%)
013	Super Unleaded Ethanol (5.7%)
014	Unleaded Ethanol (7.7%)
015	Unleaded Plus Ethanol (7.7%)
016	Methanol / Leaded
017	Ethanol / Leaded
018	Leaded
019	Regular Diesel #2
020	Premium Diesel #2
021	Diesel #1
022	Compressed Natural Gas
023	Liquid Propane Gas
024	Liquid Natural Gas
025	M-85
026	E-85
027	Unleaded / Reformulated 1
028	Unleaded / Reformulated 2
029	Unleaded / Reformulated 3
030	Unleaded / Reformulated 4
031	Unleaded / Reformulated 5
032	Diesel Off-Road (# 1 and #2 Non-Taxable)
033	Ultra Low Sulfur Diesel Off-Road (Non-Taxable)
034	Biodiesel Blend Off-Road (Non-Taxable)
035	Ultra Low Sulfur Biodiesel Off-Road (Non-Taxable)
036	Racing Fuel
037	Super Unleaded Methanol (7.7%)

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038	Unleaded Methanol (10%)
039	Unleaded Plus Methanol (10%)
040	Dyed Diesel
041	Super Unleaded Methanol (10%)
042 - 044	Undefined Fuel
045	B2 Diesel Blend 2% Biodiesel
046	B5 Diesel Blend 5% Biodiesel
047	B10 Diesel Blend 10% Biodiesel
047	B11 Diesel Blend 11% Biodiesel
049	B15 Diesel Blend 15% Biodiesel
050	B20 Diesel Blend 20% Biodiesel
051	B100 Diesel Blend 100% Biodiesel
052	Ultra Low Sulfur #1
053	Ultra Low Sulfur #2
054	Ultra Low Sulfur Premium Diesel #2
055	Ultra Low Sulfur Biodiesel Blend 2%
056	Ultra Low Sulfur Biodiesel Blend 5%
057	Ultra Low Sulfur Biodiesel Blend 10%
058	Ultra Low Sulfur Biodiesel Blend 11%
059	Ultra Low Sulfur Biodiesel Blend 15%
060	Ultra Low Sulfur Biodiesel Blend 20%
061	Ultra Low Sulfur Biodiesel Blend 100%
062 - 098	Undefined Fuel
099	Miscellaneous Fuel
100-149	Auto Products / Services
100	General Merchandise
101	Motor Oil
102	Car Wash
103	Oil Change
104	Oil Filter
105	Work Order
106	Anti-Freeze
107	Washer Fluid
108	Brake Fluid
109	Tires
110	Federal Excise Tax / Tires

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111	Tire Rotation
112	Batteries
113	Lube
114	Inspection
115	Labor
116	Towing
117	Road Service
118	Auto Accessories
119	Auto Parts
120	Preventive Maintenance
121	Air Conditioning Service
122	Engine Service
123	Transmission Service
124	Brake Service
125	Exhaust Service
126	Body Work
127	Automotive Glass
128	Synthetic Oil
129	Lamps
130	Wipers
131	Hoses
132	Tire-related (Wheel Balance, Valve Stem)
133	Repairs
134	Service Package
135	Automotive Parking
136	Truck Tank Cleaning
137	Other Lubricants
138 - 148	Automotive Fuel Additives/Treatment (injected)
149	Miscellaneous Part/Services
150-199	Aviation Fuels
150	Jet Fuel
151	Aviation Fuel Regular
152	Aviation Fuel Premium
153	Aviation Fuel JP8
154	Aviation Fuel 4
155	Aviation Fuel 5

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156 - 198	Undefined Aviation Fuel
199	Miscellaneous
200-249	Aviation Products / Services
200	Storage
201	Aircraft Ground Handling
202	Aircraft Ground Power Unit
203	Aircraft Labor
204	Aircraft Work Order
205	Aircraft Maintenance
206	Aircraft Service
207	Transportation
208	De-icing
209	Ramp Fees
210	Catering
211	Hangar Fee
212	Landing Fee
213	Call Out Fee
214	Aircraft Rental
215	Instruction Fee
216	Flight Plans/ Weather Brief
217	Charter Fee
218	Communication Fee
219	Aircraft Cleaning
220	Cargo Handling
221	Aircraft Accessories
222	Pilot Supplies
223	Aircraft Parking Fee
224	Aircraft Tiedown Fees
225	Aircraft Sanitation Fees
226	Aircraft Fuel Additive
227 - 248	Undefined Aviation
249	Miscellaneous Aviation
300-349	Marine Products / Services
300	Marine Services
301	Marine Labor
302	Marine Work Order



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303	Launch Fee
304	Slip Rental
305 - 348	Undefined Marine Services
349	Miscellaneous Marine Service
350-449	Other Fuels
350	Kerosene - Low Sulfur
351	White Gas
352	Heating Oil
353	Bottled Propane
354	Other Fuel / Non-taxable
355	Kerosene - Ultra Low Sulfur
356	Kerosene -Low Sulfur (Non-Taxable)
357	Kerosene -Ultra Low Sulfur (Non-Taxable)
358 - 448	Undefined
449	Miscellaneous / Other Fuel
450 - 599	Merchandise
450	General Merchandise
451	Cigarettes
452	Tobacco - Other
453	Pkg Bvgs / Non-alcoholic
454	Hot Dispensed Bvgs
455	Cold Dispensed Bvgs
456	Frozen dispensed Bvgs
457	Other Beverages
458	Ice
459	Packaged Ice Cream
460	Salty Snacks
461	Alternative Snacks
462	Sweet Snacks
463	Candy
464	Fluid Milk Product
465	Other Dairy
466	Juice
467	Edible Groceries
468	Non-edible Groceries
469	Perishable Groceries

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470	Publications
471	Undefined
472	Undefined
473	Healthy/Beauty Care
474	Beer (Alcoholic)
475	Beer (Non-alcoholic)
476	Wine
477	Liquor
478	Deli Sandwiches
479	Prepared Food
480	Deli Items
481	Food Service
482	Lottery (Instant)
483	Lottery (Online)
484	Lottery (Other)
485	General
486	Vendor Payment
487	Payroll Check
488	Gift Certificate
489	Refund Check
490	Official Check
491	Rebate Check
492	Dividend Check
493	Utility Check
494 - 502	Undefined
503	Store Services
504	Home Delivery
505	Prepaid Cards- Purchase
506	Prepaid Cards-Activation
507	Membership/Loyalty
508 - 599	Undefined
600 - 699	Reserved
900 - 949	Negative Transactions
900	Discount 1
901	Discount 2
902	Discount 3

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903	Discount 4
904	Discount 5
905	Coupon 1
906	Coupon 2
907	Coupon 3
908	Coupon 4
909	Coupon 5
910	Lotto Payout (Instant)
911	Lotto Payout (Online)
912	Lotto Payout (Other)
913	Split Tender
914	Tax Discount/Forgiven
915 - 948	Undefined
949	Miscellaneous Negative
950 - 999	Administrative
950	Tax 1
951	Tax 2
952	Tax 3
953	Tax 4
954	Tax 5
955	Cash back
956	Cash back Fee
957	Fee 1
958	Fee 2
959	Fee 3
960	Fee 4
961	Fee 5
962	Miscellaneous Aviation Tax
963 - 999	Undefined Admin

### Appendix E-3: Service Codes

Value	Description
F	Full Service
S	Self Service
N	Mini Serve
X	Maxi Serve

O	Other or Non-Fuel
---	-------------------

**Appendix E-4: Measurement Codes**

Value	Description
C	Case/Carton
G	Gallons
K	Kilograms
L	Liters
P	Pounds
Q	Quarts
U	Units
Z	Ounces
X	Undefined

**Appendix E-5: Default Dispenser Card Reader Pre-Auth Amounts and Cutoff Amounts**

Card Brand	Pre-Auth Amount	Cut Off Amount
Visa	\$1.00	\$75.00
MasterCard	\$1.00	\$100.00
American Express	\$90.00	\$90.00
Discover	\$75.00	\$75.00
Gift Cards	\$75.00	\$75.00
Wright Express	\$1.00	\$150.00
Voyager	\$75.00	\$75.00
Visa Fleet	\$1.00	\$150.00
MasterCard Fleet	\$1.00	\$150.00
Debit	\$50.00	\$50.00
Fleet One	\$250.00	\$250.00
FuelMan	\$50.00	Authorizer can return higher amount

**Appendix E-6: Fleet Card Partial Authorization and VoicePost Support**

Fleet Card	Description	Partial Approval	VoicePost
Wright Express	Pay at Pump Magnetic Read	No	No
	Inside Console Magnetic Read	No	Yes
	Inside Console Manual Entry	No	Yes

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Voyager	Pay at Pump Magnetic Read	No	No
	Inside Console Magnetic Read	No	Yes
	Inside Console Manual Entry	No	Yes
MasterCard Fleet	Pay at Pump Magnetic Read	Yes	No
	Inside Console Magnetic Read	Yes	Yes
	Inside Console Manual Entry	Yes	Yes
Visa Fleet	Pay at Pump Magnetic Read	Yes	No
	Inside Console Magnetic Read	Yes	Yes
	Inside Console Manual Entry	Yes	Yes
Fleet One	Pay at Pump Magnetic Read	No	No
	Inside Console Magnetic Read	No	Yes
	Inside Console Manual Entry	No	Yes
FuelMan	Pay at Pump Magnetic Read	No	No
	Inside Console Magnetic Read	No	No
	Inside Console Manual Entry	No	No

## Appendix F: P2P Encrypted Device Format

The swipe data format is determined by the device type you are using. This section will give you the format of the string that you need to send through for a successful transaction

Fields that are required for P2P Encryption:

**ENCRYPTEDREADERTYPE**

## ENCRYPTEDSWIPEDATA

There are 4 devices types we currently support:

**MAGTEK**

## MAGTEK iPad

ID TECH

**INGENICO**

**MAGTEK**

**ENCRYPTEDREADERTYPE = 1**

\*NOTE: All delimiters ( | ) must be present.

**ENCRYPTEDSWIPEDATA =**

0600|167D00009B409DAB749018FF50DD5E2B31787B42D3E06C24657C4F02CEEDADCD5DB2A1B293869FA63C1674  
B30ADAC21C7EECC14D0118154B6B7E93E950AEF434|601119A4857E1421475E8DDB32036E3E777EAB324A8788210  
A3DFC88159184AE84B5251A904CD218||61401000|65B67D833B698002151B02CF75B69A45AA9E285C49BB4D8BD74  
C9B18D5CD38BEE181F452100BF46B10EB552D5EE6844BEA6C59904A0F79DF|B1A8BD2061813AA|0AEA78882CE22  
FA1|9502530000001720001B|947C||1000

Masked Track 1

Masked Track 2

Encrypted Track 1

Encrypted Track 2

KSN

### Working Example:

```
%B4003000001006781^TEST/MPS^15120000000000000?;4003000001006781=1512000000000000000?||  
009EC855F2B7569A764161E185634EB18990AFF612C9DB8EF7B225D6F2FC1FCC9B1F02C6311471E9ECC0794D43892A  
E3|6FD276477FCFE75D0D392E0D7D4B04C7377098D49D2E9CE7F8390B3FA846C72FEE5E7FAAFBDFF2E|||||950253000  
0001720001B|||
```



