



MerchantPartners

**Online Commerce Suite™
SOAP Integration Guide**



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Table of Contents

| | |
|--|----------------|
| Overview..... | Page 1 |
| What's In This Guide..... | Page 1 |
| How This Guide is Organized..... | Page 1 |
| How to Comment on This Guide..... | Page 1 |
| Contact Information..... | Page 1 |
| Customer Service..... | Page 1 |
| Documentation..... | Page 1 |
| Certified Networks..... | Page 1 |
| Hardware Compatible List..... | Page 1 |
| Understanding SOAP..... | Page 2 |
| The SOAP Process..... | Page 3 |
| Transaction Operation..... | Page 4 |
| WSDL Service URL..... | Page 4 |
| Transaction Types (SOAP Actions)..... | Page 4 |
| Credit Card Transactions..... | Page 7 |
| processCCAuth and processCCSale and processCCAuthentication (Credit Card Auth / Sale / Authentication)..... | Page 7 |
| processVoid (Credit Card Void)..... | Page 13 |
| processCredit (Credit Card and Check Credit/Refund)..... | Page 13 |
| processPost (Credit Card Post/Capture)..... | Page 14 |
| processCCCredit (Credit Card Standalone Credit)..... | Page 16 |
| processAuthReverse (Credit Card Authorization Reversal)..... | Page 20 |
| processSVSale (Sale on Gift Card) / processSVAddValue (Add Value on Gift Card)..... | Page 20 |
| processSVIssue (Issue a new Gift Card)..... | Page 25 |
| processSVDeactivate (Deactivate the Gift Card) / processSVBalanceInquiry (Balance Inquiry on Gift Card)..... | Page 29 |
| processSVRefund (Refund a Gift Card Transaction)..... | Page 33 |
| Debit Card Transactions..... | Page 35 |
| processDebitAuth or processDebitSale (Debit Card Auth or Sale)..... | Page 35 |
| processDebitReturn (Debit Card Return)..... | Page 41 |
| processDebitPost (Post/Capture Previous Debit Auth)..... | Page 42 |
| processDebitVoid (Debit Card Void)..... | Page 44 |
| processDebitPinless (Pinless Debit)..... | Page 45 |
| processDebitPinlessCredit (Pinless Debit Credit)..... | Page 51 |
| ACH Transactions..... | Page 52 |
| processACHSale (ACH Sale)..... | Page 52 |
| processACHCredit (ACH Standalone Credit)..... | Page 55 |
| processACHVerification (ACH Verification)..... | Page 57 |
| Check 21 Transactions..... | Page 60 |
| processC21Sale (Check 21 Sale)..... | Page 60 |
| processC21Credit (Check 21 Credit/Refund)..... | Page 62 |
| processC21Void (Check 21 Void)..... | Page 63 |
| 3rd Party Check Processing Service Providers..... | Page 65 |
| processExtACHSale (EXT Check Sale)..... | Page 65 |
| processExtACHCredit (Ext Check Credit/Refund)..... | Page 67 |
| processExtACHVoid (Ext Check Void)..... | Page 68 |
| processExtACHConsumerDisbursement (EXT Check Consumer Disbursement)..... | Page 68 |

Table of Contents

| | |
|--|-----------------|
| Transaction Retrieve | Page 72 |
| <u>processTransRetrieve (Trans Retrieve)</u> | Page 72 |
| Stored Profiles | Page 73 |
| <u>processProfileSale (Profile Sale)</u> | Page 73 |
| <u>processProfileDelete (Profile Delete)</u> | Page 76 |
| <u>processProfileCredit (Profile Credit)</u> | Page 76 |
| <u>processProfileAdd (Credit Card Profile Add)</u> | Page 78 |
| <u>processProfileAdd (ACH Profile Add)</u> | Page 80 |
| <u>processProfileUpdate (Profile Update)</u> | Page 82 |
| <u>processProfileRetrieve (Profile Retrieve)</u> | Page 84 |
| <u>processAccountLookup (AccountLookup)</u> | Page 84 |
| Recurring Records | Page 86 |
| <u>processRecurAdd</u> | Page 86 |
| <u>processRecurUpdate</u> | Page 88 |
| <u>processRecurCancel</u> | Page 90 |
| EBT Transactions | Page 94 |
| <u>processEBTBalanceInquiry / processEBTCashBenefitBalanceInquiry / processEBTCashBenefitReturn /</u> <u>processEBTCashBenefitWithdrawal / processEBTCashBenefitSale /</u> <u>processEBTFoodStampVoucherSale / processEBTFoodStampReturn / processEBTFoodStampSale /</u> <u>processEBTFoodStampBalanceInquiry</u> | Page 94 |
| <u>processEBTVoid</u> | Page 98 |
| SOAP Response Objects | Page 99 |
| <u>ProcessResult</u> | Page 99 |
| <u>ProcessProfileResult</u> | Page 100 |
| <u>ProcessAccountLookupResult</u> | Page 102 |
| Security | Page 104 |
| <u>SOAP over HTTPS (Required)</u> | Page 104 |
| <u>Merchant PIN (Recommended)</u> | Page 105 |
| Sample SOAP Request/Response | Page 106 |
| <u>Sample Client SOAP Request</u> | Page 106 |
| <u>Sample Client SOAP Response</u> | Page 108 |
| Sample Client Code | Page 109 |
| <u>Example 1: Java</u> | Page 109 |
| <u>Example 2: C#</u> | Page 111 |
| <u>Example 3: PHP</u> | Page 111 |
| Appendix A: Transaction Service WSDL | Page 112 |
| Appendix B: Transaction Authorization Specification | Page 113 |
| <u>Credit Card Approval Response Format</u> | Page 113 |
| <u>Credit Card Decline Response Format</u> | Page 114 |
| Appendix C: AVS Response Codes | Page 115 |
| Appendix D: CVV2/CVC2 Response Codes | Page 116 |

Table of Contents

| | |
|--|-----------------|
| <u>Appendix E: Country and Currency Code</u> | Page 117 |
| <u>Appendix F: Lineltems</u> | Page 124 |
| <u>Appendix F-1: Product Codes</u> | Page 124 |
| <u>Appendix F-3: Service Codes</u> | Page 131 |
| <u>Appendix F-4: Measurement Codes</u> | Page 132 |
| <u>Appendix F-5: Default Dispenser Card Reader Pre-Auth Amounts and Cutoff Amounts</u> | Page 132 |
| <u>Appendix F-6: Fleet Card Partial Authorization and VoicePost Support</u> | Page 132 |
| <u>Appendix F-7: Industry Codes</u> | Page 133 |

Overview

The Online Commerce Suite SOAP Integration Guide is written for developers who want to enable their applications to access the Merchant Partners SOAP payment gateway web services.

What's In This Guide

Two key features of SOAP are:

- To expose web services via the WSDL.
- Provide web services support for various programming languages. This document discusses basic usage, XML parsing, and examples in Java and C#.

How This Guide is Organized

The remainder of this guide is organized into the following sections:

1. Understanding SOAP
2. Web Services Support discusses the SOAP-based web services support
3. The Client API explains the APIs that access the Transaction Web Services.
4. Examples offer short programs that illustrate the use of the Client APIs languages such as Java and C#.

How to Comment on This Guide

Every effort has been made to produce an accurate and easy to understand the SOAP 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

Phone: (866) 242-9933

Documentation

Web Site URL: 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>

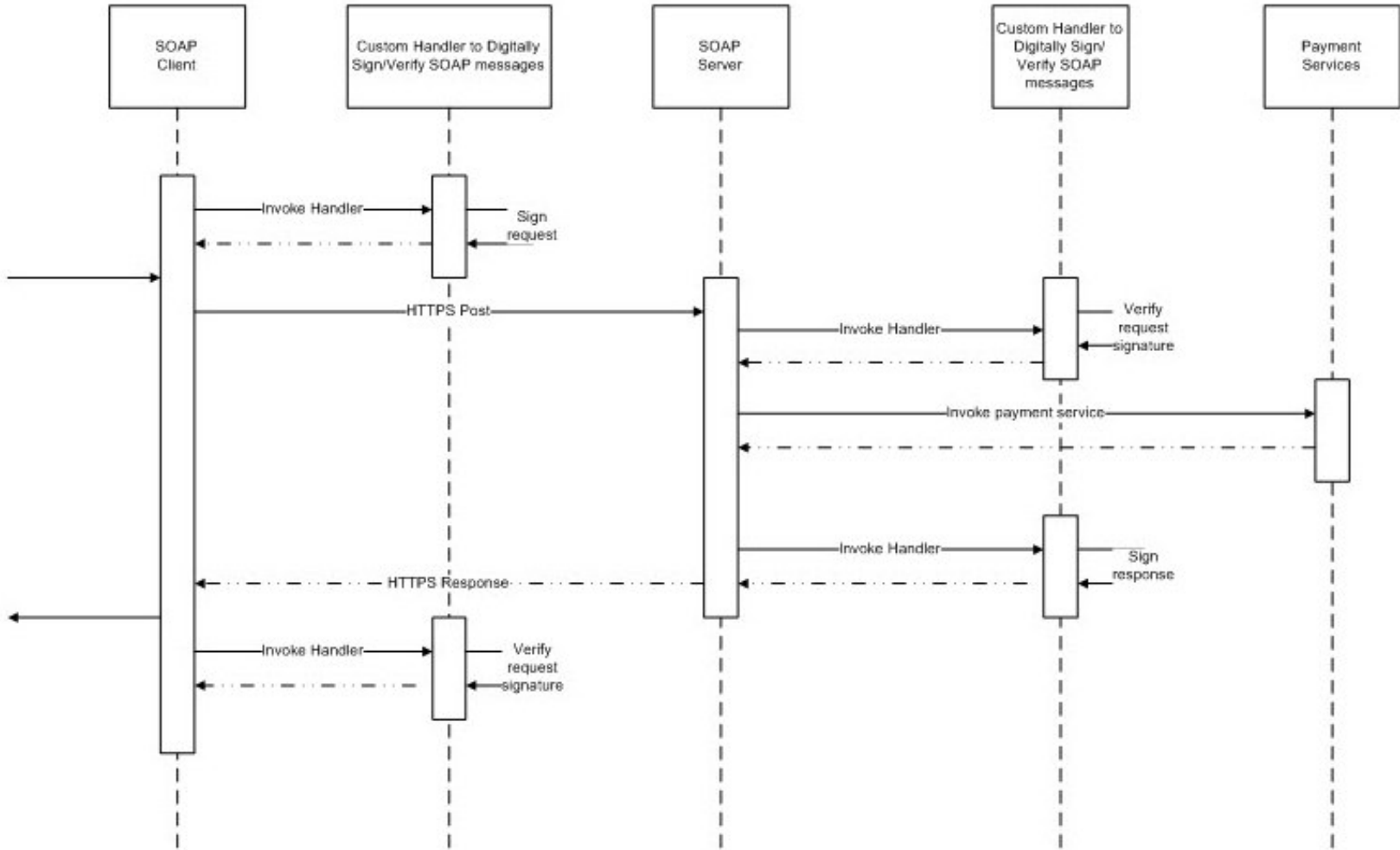
Understanding SOAP

Cryptography

All Soap Request Messages are required to be sent using HTTPS.

Authentication

Merchant Account ID and MerchantPIN will provide transaction level security..



The SOAP Process

1. Merchant downloads the WSDL.
2. Merchant requests an Account ID through the Online Commerce Suit UI. If needed, contact support for Test Account ID and credentials.
3. Merchant creates the SOAP messages with the required fields from the WSDL and sends it via HTTPS for processing.
4. The Server's web service receives the SOAP message. The Merchant's Account ID and MerchantPIN (if enabled) is Validated.
5. If valid, it processes transaction and builds a valid SOAP response.
6. The merchant's client response handler receives the SOAP message and processes the response.

Transaction Operation

The following sections explain the transaction operations that are supported.

WSDL Service URL

The WSDL specifications for all of these methods are publicly available at the following URL.

| |
|---|
| Transaction Processing Services |
| WSDL URL: https://trans.merchantpartners.com/Web/services/TransactionService?wsdl |
| Web Service URL: https://trans.merchantpartners.com/Web/services/TransactionService |

Transaction Types (SOAP Actions)

| Credit Card | Description |
|--------------------------|--|
| processCCSale | Process a Credit Card Sale |
| processCCAuth | Perform a Credit Card Authorization. |
| processCCVoid | Deprecated (use processVoid). |
| processVoid | Void an Auth or a Sale (previous transaction required). |
| processCredit | Issue Credit for the CC or ACH Sale (previous transaction required). |
| processCCCredit | Process a Standalone Credit Card Credit. |
| processCCPost | Process a POST/Capture of a Previous Credit Card Auth. |
| processAuthReverse | Perform a Reversal of the Credit Card Authorization. |
| processCCAuthentication | Perform a Credit Card Authentication. |
| processAccountLookup | Performs an Account Lookup of the customer. |
| processSVSale | Process a Sale on the Gift Card. |
| processSVAddValue | Add value to the Gift Card. |
| processSVIssue | Issue a new Gift Card. |
| processSVDeactivate | Deactivate the Gift Card. |
| processSVBalanceInquiry | Performs a Balance Inquiry on the Gift Card. |
| processSVRefund | Refund a Gift Card Transaction. |
| Debit Card | Description |
| processDebitAuth | Process PIN-Debit Auth Transaction. |
| processDebitSale | Process PIN-Debit Sale Transaction. |
| processDebitReturn | Issue PIN-Debit Return. |
| processDebitVoid | Issue PIN-Debit Void. |
| processDebitPost | Issue PIN-Debit Post. |
| processDebitPinless | Process Pinless Debit. |

Online Commerce Suite™ SOAP Integration Guide

| | |
|---|---|
| processDebitPinlessCredit | Process Pinless Debit Credit. |
| ACH | Description |
| processACHSale | Process a ACH sale. |
| processVoid | Void a CheckAuth (previous transaction required). |
| processCredit | Issue Credit for the ACH Sale (previous transaction required). |
| processACHCredit | Process a Standalone ACH Credit. |
| processACHVerification | Process a ACH Verification (verification only). |
| Check 21 | Description |
| processC21ICLSale | Deprecated. Use processC21Sale. |
| processC21Sale | Process a Check 21 ICL/RCC Sale. |
| processC21ICLVoid | Deprecated. Use processC21Void. |
| processC21Void | Process a Check 21 ICL/RCC Void (previous transaction required). |
| processC21ICLCredit | Deprecated. Use processC21Credit. |
| processC21ICLCredit | Process a Check 21 ICL/RCC Credit (previous transaction required). |
| 3rd Party Check Processing Service Providers | Description |
| processC21RCCSale | Deprecated. Use processC21Sale. |
| processExtACHSale | Process a Standalone Extended ACH Sale. |
| processExtACHCredit | Process a Standalone Extended ACH Credit. |
| processExtACHVoid | Process a Standalone Extended ACH Void. |
| processExtACHConsumerDisbursement | Process a Standalone Extended ACH Consumer Disbursement. |
| processC21RCCCredit | Deprecated. Use processC21Credit. |
| processC21RCCVoid | Deprecated. Use processC21Void. |
| Stored Profile | Description |
| processCCProfileAdd | Store Credit Card using the Stored Profile. |
| processCKProfileAdd | Store ACH using the Stored Profile. |
| processExtACHProfileAdd | Store ExtACH using the Stored Profile. |
| processProfileSale | Issue CC or ACH Sale or ExtACH using the Stored Profile. |
| processProfileCredit | Issue Credit using the Stored Profile. |
| processProfileUpdate | Updates the Stored Profile (ie, card number, expiration dates, etc.). |
| processProfileRetrieve | Retrieves the account number, address and billing info. |
| Recurring Records | Description |
| processRecurAdd | Creates a Recurring record without an initial transaction. |
| processRecurUpdate | Updates a Recurring record. |
| processRecurCancel | Cancel an Active Recurring record. |
| EBT Transactions | Description |
| processEBTBalancelnquiry | |

Online Commerce Suite™ SOAP Integration Guide

| | |
|-------------------------------------|---|
| processEBTCashBenefitBalanceInquiry | |
| processEBTCashBenefitReturn | |
| processEBTCashBenefitWithdrawal | |
| processEBTCashBenefitSale | |
| processEBTFoodStampVoucherSale | |
| processEBTFoodStampReturn | |
| processEBTFoodStampSale | |
| processEBTFoodStampBalanceInquiry | |
| processEBTVoid | |
| Retrieve Results | Description |
| processTransRetrieve | Retrieves the transaction result of the last transaction. |

Note: A request SOAP message with element of type INT should be defaulted to 0 if not used.

Credit Card Transactions

processCCAuth and processCCSale and processCCAuthentication (Credit Card Auth / Sale / Authentication)

| Field | Required | Description | | | | | | | | |
|--------------------|--|--|--------|--|--------------|--|------------|--|-------|-----------------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | |
| ccname | X | Consumer name as it appears on the card. | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | |
| cvv2_cid | | Credit card verification value/code (CVV2/CVC2) | | | | | | | | |
| voiceauth | | 6 character approval code obtained from the cardholder's issuing bank. | | | | | | | | |
| track1 | | Track 1 card swipe data | | | | | | | | |
| track2 | | Track 2 card swipe data | | | | | | | | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | | | | | | | | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | | | | | | | | |
| cardpresent | | A value of 1 indicates that the card was present | | | | | | | | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | | | | | | | | |
| companyname | | Your company name | | | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring billing</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> </table> | create | A value of 1 will create the recurring billing | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur |
| create | A value of 1 will create the recurring billing | | | | | | | | | |
| 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 | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|----------------------------------|--|
| | | amount | Recurring amount |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |

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| | | |
|--------------|--------------------------|---|
| hotellodging | 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) |
| | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | extracharges | 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. |
| autorental | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | rentalrate | Rate amount of rental. |
| | noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | rentaldate | YY/MM/DD |
| | rentalreturndate | YY/MM/DD |
| | rentername | Name of Renter |
| | rentalreturncity | City it was returned in |
| | rentalreturnstatecountry | State/Country-ISO3 |
| | rentalreturnlocationid | 10 chars location id |
| autorepair | vin | Vehicle Identification Number |
| | odometer | Mileage read from the odometer |
| | workorder | Merchant's work order number |
| | unit | Truck/Vehicle unit number |
| | repaircode | Code use to identify the type of repair done. |

Online Commerce Suite™ SOAP Integration Guide

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|---------------------|--|--|
| fsa | healthcareflag | 0 is off 1 is on |
| | rxamount | Qualified Prescription amount. |
| | clinicamount | Qualified Medical Clinic amount. |
| | visionamount | Qualified Vision amount. |
| | dentalamount | Qualified Dental 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. |
| restaurant | gratuityamount | The Gratuity Amount. |
| purchasecardlevel3 | lineitems | Refer to Appendix F: |
| | | |
| fleetcarddata | atpump | 0 is no 1 is yes |
| | idnumber | User ID |
| | vehicleid | Vehicle ID |
| | driverid | Driver ID |
| | odometerreading | Odometer |
| | miscnumericdata | Cust Data |
| | jobnumber | Job Number |
| | purchasedevsequencenumber | Purchase Device Sequence Number |
| departmentnumber | Department Number | |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ipaddress | Customer's web browser IP address | |
| manualrecurring | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |
| currencycode | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | Industry Code One character value: (refer to Appendix F-7) | |
| avs_override | Default = 0, 1 = Override AVS Settings | |
| 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. | |
| cvv2_override | Default = 0, 1 = Override CVV2 Settings | |
| duplicate_override | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |

Online Commerce Suite™ SOAP Integration Guide

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|----------------------|--|--|---|
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings | |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest | |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. | |
| signature | | | |
| overridepin | | | |
| guid | | | |
| emvdata | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | |
| | | 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 |

Online Commerce Suite™ SOAP Integration Guide

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|-----------------|--|---|---|
| | | formfactorindicator | 9F6E - Indicates the form factor of the consumer payment device |
| | | customerexcdta | 9F7C - In US contactless transactions, issuer proprietary info |
| contactlessflag | | Flag to indicate an ApplePay or NFC transaction (0=no, 1=yes) | |

Note: Refer to **ProcessResult** for transaction result.

processVoid (Credit Card Void)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|---|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only if transaction was submitted under a Sub ID. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order ID of the original transaction | | | | | | | | | | | | |
| historyid | X | History ID of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processCredit (Credit Card and Check Credit/Refund)

| Field | Required | Description |
|--------|----------|-------------|
| acctid | X | |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|---------------------|-------------------------|--|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| | | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only if transaction was submitted under a Sub ID. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order ID of the original transaction | | | | | | | | | | | | |
| historyid | X | History ID of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| customizedfields | | <table border="1" style="width: 100%;"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processPost (Credit Card Post/Capture)

| Field | Required | Description |
|---------------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only if transaction was submitted under a Sub ID. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |
| orderid | X | Order ID of the original transaction |
| historyid | X | History ID of the original transaction |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. |
| merchantordernumber | | Customer's unique alpha-numeric number |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|--------------------|--|---|-----------------|--|-----------|--|----------|--|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| customizedfields | | <table border="1"> <tr> <td data-bbox="521 147 789 205">custom1</td> <td data-bbox="789 147 1534 205">Merchant's Custom field</td> </tr> <tr> <td data-bbox="521 205 789 264">custom2</td> <td data-bbox="789 205 1534 264">Merchant's Custom field</td> </tr> <tr> <td data-bbox="521 264 789 323">custom3</td> <td data-bbox="789 264 1534 323">Merchant's Custom field</td> </tr> <tr> <td data-bbox="521 323 789 382">custom4</td> <td data-bbox="789 323 1534 382">Merchant's Custom field</td> </tr> <tr> <td data-bbox="521 382 789 441">custom5</td> <td data-bbox="789 382 1534 441">Merchant's Custom field</td> </tr> <tr> <td data-bbox="521 441 789 457">custom6</td> <td data-bbox="789 441 1534 457">Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| purchasecardlevel2 | | <table border="1"> <tr> <td data-bbox="521 457 789 548">pocustomerrefid</td> <td data-bbox="789 457 1534 548">Cardholders Customer ID or Reference Number for the Purchase Card.</td> </tr> <tr> <td data-bbox="521 548 789 606">taxamount</td> <td data-bbox="789 548 1534 606">Total tax charged for the transaction.</td> </tr> <tr> <td data-bbox="521 606 789 653">taxempty</td> <td data-bbox="789 606 1534 653">1 = a tax exempt purchase. 0 = a taxable purchase.</td> </tr> </table> | pocustomerrefid | Cardholders Customer ID or Reference Number for the Purchase Card. | taxamount | Total tax charged for the transaction. | taxempty | 1 = a tax exempt purchase. 0 = a taxable purchase. | | | | | | |
| pocustomerrefid | Cardholders Customer ID or Reference Number for the Purchase Card. | | | | | | | | | | | | | |
| taxamount | Total tax charged for the transaction. | | | | | | | | | | | | | |
| taxempty | 1 = a tax exempt purchase. 0 = a taxable purchase. | | | | | | | | | | | | | |
| restaurant | | <table border="1"> <tr> <td data-bbox="521 653 789 720">gratuityamount</td> <td data-bbox="789 653 1534 720">The Gratuity Amount.</td> </tr> </table> | gratuityamount | The Gratuity Amount. | | | | | | | | | | |
| gratuityamount | The Gratuity Amount. | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processCCCredit (Credit Card Standalone Credit)

| Field | Required | Description | | | | | | | | | | |
|--------------------|--|---|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| ccname | X | Consumer name as it appears on the card. | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | |
| cvv2_cid | | Credit card verification value cvv2/cvc2 code | | | | | | | | | | |
| track1 | | Track 1 card swipe data | | | | | | | | | | |
| track2 | | Track 2 card swipe data | | | | | | | | | | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | | | | | | | | | | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | | | | | | | | | | |
| cardpresent | | A value of 1 indicates that the card was present | | | | | | | | | | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount |
| create | A value of 1 will create the recurring | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|--|
| billaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is 'Payment Receipt #xzy'. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ipaddress | Customer's web browser IP address | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |

Online Commerce Suite™ SOAP Integration Guide

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|----------------------|---|---|---------|---|--------------------|--|-------------------|---|----------------|--|-------------------|---|---------------|--|--------------------|---|--------------|--|-------------------|---|-------------------|---|-----------------|--|-------------|--|-----------------|---|-------------------|--|----------------------|--|
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| emvdata | | <table border="1"> <tr> <td>emvflag</td> <td>Must be set to 1 for an EMV transaction</td> </tr> <tr> <td>interchangeprofile</td> <td>82 - Indicates the capabilities of the card to support specific functions in the application</td> </tr> <tr> <td>dedicatedfilename</td> <td>84 - Identifies the name of the DF as described in ISO/IEC 7816-4</td> </tr> <tr> <td>termverresults</td> <td>95 - Status of the different functions as seen from the terminal</td> </tr> <tr> <td>secondarypinblock</td> <td>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.</td> </tr> <tr> <td>applicationid</td> <td>4F - Identifies the application as described in ISO/IEC 7816-5</td> </tr> <tr> <td>languagepreference</td> <td>5F2D - 1D4 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.</td> </tr> <tr> <td>panseqnumber</td> <td>5F34 - Identifies and differentiates cards with the same PAN</td> </tr> <tr> <td>terminaltransdate</td> <td>9A - Local date that the transaction was authorised</td> </tr> <tr> <td>transactionstatus</td> <td>9B - Indicates the functions performed in a transaction</td> </tr> <tr> <td>cryptotranstype</td> <td>9C - Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code</td> </tr> <tr> <td>aidterminal</td> <td>9F06 - Identifies the application as described in ISO/IEC 7816-5</td> </tr> <tr> <td>appusagecontrol</td> <td>9F07 - Indicates issuer's specified restrictions on the geographic usage and services allowed for the application</td> </tr> <tr> <td>terminalversionno</td> <td>9F09 - Version number assigned by the payment system for the application</td> </tr> <tr> <td>issuereactiondefault</td> <td></td> </tr> </table> | 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 - 1D4 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 | |
| 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 - 1D4 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 |

| | | | |
|-----------------|--|---|--|
| | | customerexcdta | 9F7C - In US contactless transactions, issuer proprietary info |
| contactlessflag | | Flag to indicate an ApplePay or NFC transaction (0=no, 1=yes) | |

Note: Refer to **ProcessResult** for transaction result.

processAuthReverse (Credit Card Authorization Reversal)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|---|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only if transaction was submitted under a Sub ID. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order ID of the original transaction | | | | | | | | | | | | |
| historyid | X | History ID of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processSVSale (Sale on Gift Card) / processSVAddValue (Add Value on Gift Card)

| Field | Required | Description |
|--------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|--------------------|---|--|--|
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | |
| ccname | | Consumer name as it appears on the card. | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| cvv2_cid | | Credit card verification value/code (CVV2/CVC2) | |
| voiceauth | | 6 character approval code obtained from the cardholder's issuing bank. | |
| track1 | | Track 1 card swipe data | |
| track2 | | Track 2 card swipe data | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | |
| cardpresent | | A value of 1 indicates that the card was present | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | |
| companyname | | Your company name | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | |
| recurring | | create | A value of 1 will create the recurring billing |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | | start | Number of days to start the recur |
| | | amount | Recurring amount |
| | | billaddress | |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|----------------------------------|--|
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| hotellodging | | 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) |
| | | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|--------------------|--|--------------------------|---|
| | | extracharges | 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. |
| autorental | | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | | rentalrate | Rate amount of rental. |
| | | noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | | rentaldate | YY/MM/DD |
| | | rentalreturndate | YY/MM/DD |
| | | rentername | Name of Renter |
| | | rentalreturncity | City it was returned in |
| | | rentalreturnstatecountry | State/Country-ISO3 |
| | | rentalreturnlocationid | 10 chars location id |
| autorepair | | vin | Vehicle Identification Number |
| | | odometer | Mileage read from the odometer |
| | | workorder | Merchant's work order number |
| | | unit | Truck/Vehicle unit number |
| | | repaircode | Code use to identify the type of repair done. |
| fsa | | healthcareflag | 0 is off 1 is on |
| | | rxamount | Qualified Prescription amount. |
| | | clinicamount | Qualified Medical Clinic amount. |
| | | visionamount | Qualified Vision amount. |
| | | dentalamount | Qualified Dental amount. |
| purchasecardlevel2 | | pocustomerrefid | 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. |
| restaurant | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|----------------------|--|--|---------------------------------|
| | | gratuityamount | The Gratuity Amount. |
| purchasecardlevel3 | | lineitems | Refer to Appendix F: |
| fleetcarddata | | atpump | 0 is no 1 is yes |
| | | idnumber | User ID |
| | | vehicleid | Vehicle ID |
| | | driverid | Driver ID |
| | | odometerreading | Odometer |
| | | miscnumericdata | Cust Data |
| | | jobnumber | Job Number |
| | | purchasedevsequencenumber | Purchase Device Sequence Number |
| | | departmentnumber | Department Number |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ipaddress | | Customer's web browser IP address | |
| manualrecurring | | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | | Date Of Birth - Day (2 digits) | |
| dobmonth | | Date Of Birth - Month (2 digits) | |
| dobyear | | Date Of Birth - Year (4 digits) | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | |
| 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. | |
| avs_override | | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | | Default = 0, 1 = Override CVV2 Settings | |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings | |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest | |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. | |
| signature | | | |
| overridepin | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | |

Note: Refer to **ProcessResult** for transaction result.

processSVIssue (Issue a new Gift Card)

| Field | Required | Description | | | | | | |
|--------------------|--|--|--------|--|--------------|--|------------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | |
| amount | X | Dollar amount in US dollars to start the Gift Card with. Amount can not be 0.00. | | | | | | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | | | | | | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | | | | | | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | | | | | | |
| ccname | | Consumer name as it appears on the card. | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | |
| cvv2_cid | | Credit card verification value/code (CVV2/CVC2) | | | | | | |
| voiceauth | | 6 character approval code obtained from the cardholder's issuing bank. | | | | | | |
| track1 | | Track 1 card swipe data | | | | | | |
| track2 | | Track 2 card swipe data | | | | | | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | | | | | | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | | | | | | |
| cardpresent | | A value of 1 indicates that the card was present | | | | | | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | | | | | | |
| companyname | | Your company name | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring billing</td> </tr> <tr> <td>billingcycle</td> <td> 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 </td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> </table> | create | A value of 1 will create the recurring billing | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| create | A value of 1 will create the recurring billing | | | | | | | |
| 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 | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|------------------|--|---|---------|--|-----------|---|--------------|--|-----------|--|---------|----------------------------------|---------|-------------------------|
| | | <table border="1"> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | start | Number of days to start the recur | amount | Recurring amount | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | | | |
| billaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| shipaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| phone | | Consumer phone number | | | | | | | | | | | | |
| email | | Consumer email address | | | | | | | | | | | | |
| memo | | Miscellaneous information field | | | | | | | | | | | | |
| dlnum | | Consumer driver's license number | | | | | | | | | | | | |
| ssnum | | Consumer Social Security Number | | | | | | | | | | | | |
| customizedemail | | <table border="1"> <tr> <td>emailto</td> <td>E-mail address to send the consumer e-mail receipt. Default is ci_email address.</td> </tr> <tr> <td>emailfrom</td> <td>Return address on consumer's e-mail receipt. Default is null@atsbank.com.</td> </tr> <tr> <td>emailsubject</td> <td>Subject line on consumer's receipt email. Default message is Payment Receipt #xzy.</td> </tr> <tr> <td>emailtext</td> <td>Consumer's e-mail receipt body text. Default is a generic receipt message.</td> </tr> </table> | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. | | | | |
| emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. | | | | | | | | | | | | | |
| emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. | | | | | | | | | | | | | |
| emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | | | | | | | | | | | | | |
| emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. | | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

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|--------------|--------------------------|---|
| hotellodging | 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) |
| | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | extracharges | 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. |
| autorental | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | rentalrate | Rate amount of rental. |
| | noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | rentaldate | YY/MM/DD |
| | rentalreturndate | YY/MM/DD |
| | rentername | Name of Renter |
| | rentalreturncity | City it was returned in |
| | rentalreturnstatecountry | State/Country-ISO3 |
| | rentalreturnlocationid | 10 chars location id |
| autorepair | vin | Vehicle Identification Number |
| | odometer | Mileage read from the odometer |
| | workorder | Merchant's work order number |
| | unit | Truck/Vehicle unit number |
| | repaircode | Code use to identify the type of repair done. |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|--|
| fsa | healthcareflag | 0 is off 1 is on |
| | rxamount | Qualified Prescription amount. |
| | clinicamount | Qualified Medical Clinic amount. |
| | visionamount | Qualified Vision amount. |
| | dentalamount | Qualified Dental 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. |
| restaurant | gratuityamount | The Gratuity Amount. |
| purchasecardlevel3 | lineitems | Refer to Appendix F: |
| | | |
| fleetcarddata | atpump | 0 is no 1 is yes |
| | idnumber | User ID |
| | vehicleid | Vehicle ID |
| | driverid | Driver ID |
| | odometerreading | Odometer |
| | miscnumericdata | Cust Data |
| | jobnumber | Job Number |
| | purchasedevsequencenumber | Purchase Device Sequence Number |
| departmentnumber | Department Number | |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ipaddress | Customer's web browser IP address | |
| manualrecurring | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |
| currencycode | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | Industry Code One character value: (refer to Appendix F-7) | |
| 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. | |
| avs_override | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | Default = 0, 1 = Override CVV2 Settings | |
| duplicate_override | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--|--|
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. |
| signature | | |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processSVDeactivate (Deactivate the Gift Card) / processSVBalanceInquiry (Balance Inquiry on Gift Card)

| Field | Required | Description |
|--------------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| amount | | Dollar amount in US dollars to start the Gift Card with. Amount can not be 0.00. |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) |
| ccname | | Consumer name as it appears on the card. |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. |
| cvv2_cid | | Credit card verification value/code (CVV2/CVC2) |
| voiceauth | | 6 character approval code obtained from the cardholder's issuing bank. |
| track1 | | Track 1 card swipe data |
| track2 | | Track 2 card swipe data |
| swipedata | | Card swipe data (must include either track1 or track2 data) |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) |
| cardpresent | | A value of 1 indicates that the card was present |
| cardreaderpresent | | A value of 1 indicates that a card reader was present |
| companyname | | Your company name |
| dynamicdescriptor | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|-----------------|--|--|--|
| | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | |
| recurring | | create | A value of 1 will create the recurring billing |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | | start | Number of days to start the recur |
| | | amount | Recurring amount |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|--------------------|---|
| | | | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| hotellodging | | 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) |
| | | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | | extracharges | 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. |
| autorental | | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | | rentalrate | Rate amount of rental. |
| | | noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | | rentaldate | YY/MM/DD |
| | | rentalreturndate | YY/MM/DD |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|---------------------|--|--|--|
| | | rentername | Name of Renter |
| | | rentalreturncity | City it was returned in |
| | | rentalreturnstatecountry | State/Country-ISO3 |
| | | rentalreturnlocationid | 10 chars location id |
| autorepair | | vin | Vehicle Identification Number |
| | | odometer | Mileage read from the odometer |
| | | workorder | Merchant's work order number |
| | | unit | Truck/Vehicle unit number |
| | | repaircode | Code use to identify the type of repair done. |
| fsa | | healthcareflag | 0 is off 1 is on |
| | | rxamount | Qualified Prescription amount. |
| | | clinicamount | Qualified Medical Clinic amount. |
| | | visionamount | Qualified Vision amount. |
| | | dentalamount | Qualified Dental 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. |
| restaurant | | gratuityamount | The Gratuity Amount. |
| purchasecardlevel3 | | lineitems | Refer to Appendix F: |
| fleetcarddata | | atpump | 0 is no 1 is yes |
| | | idnumber | User ID |
| | | vehicleid | Vehicle ID |
| | | driverid | Driver ID |
| | | odometerreading | Odometer |
| | | miscnumericdata | Cust Data |
| | | jobnumber | Job Number |
| | | purchasedevsequencenumber | Purchase Device Sequence Number |
| | | departmentnumber | Department Number |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ipaddress | | Customer's web browser IP address | |
| manualrecurring | | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | | Date Of Birth - Day (2 digits) | |
| dobmonth | | Date Of Birth - Month (2 digits) | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--|--|
| dobyear | | Date Of Birth - Year (4 digits) |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) |
| 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. |
| avs_override | | Default = 0, 1 = Override AVS Settings |
| cvv2_override | | Default = 0, 1 = Override CVV2 Settings |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. |
| signature | | |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processSVRefund (Refund a Gift Card Transaction)

| Field | Required | Description |
|---------------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only if transaction was submitted under a Sub ID. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |
| orderid | X | Order ID of the original transaction |
| historyid | X | History ID of the original transaction |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. |
| merchantordernumber | | Customer's unique alpha-numeric number |

Online Commerce Suite™ SOAP Integration Guide

customizedfields

| | |
|---------|-------------------------|
| custom1 | Merchant's Custom field |
| custom2 | Merchant's Custom field |
| custom3 | Merchant's Custom field |
| custom4 | Merchant's Custom field |
| custom5 | Merchant's Custom field |
| custom6 | Merchant's Custom field |

Note: Refer to **ProcessResult** for transaction result.

Debit Card Transactions

processDebitAuth or processDebitSale (Debit Card Auth or Sale)

| Field | Required | Description | | | | | | | | | | | | |
|--------------------|--|---|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|----------------------------------|---------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| swipedata | X | Card swipe data (must include either track1 or track2 data) | | | | | | | | | | | | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | | | | | | | | | | | | |
| customerid | X | 32 byte Encrypted PIN pad data. Includes 16 byte PIN data followed by 6 byte key set and 10 byte PIN pad serial number. | | | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| cashbackamount | | Cash back amount in the form of 0.00 (total amount transferred is amount + cash back amount) | | | | | | | | | | | | |
| track1 | | Track 1 card swipe data | | | | | | | | | | | | |
| track2 | | Track 2 card swipe data | | | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount | | |
| create | A value of 1 will create the recurring | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | | | |
| billaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|------------------|----------------------------------|--|
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| hotellodging | 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) |
| | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | extracharges | 6 1-digit codes, each a partial or complete explanation of why charged amount differs from receipt cardholder |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|---|---|------------|--------------------------------|-----------------|---|--------------|---|-----------------|---|------------------|-----------|------------|----------------|---------------------------|---------------------------------|--------------------------|--------------------|------------------------|----------------------|--|
| | | | 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. | | | | | | | | | | | | | | | | | | | | |
| autorental | | <table border="1"> <tr> <td>rentalagreementnum</td> <td>25 alphanumeric chars. Note: Amex only uses the first 12 positions.</td> </tr> <tr> <td>rentalrate</td> <td>Rate amount of rental.</td> </tr> <tr> <td>noshoworprogind</td> <td>Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show</td> </tr> <tr> <td>extracharges</td> <td>0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation</td> </tr> <tr> <td>rentaldate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentalreturndate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentername</td> <td>Name of Renter</td> </tr> <tr> <td>rentalreturncity</td> <td>City it was returned in</td> </tr> <tr> <td>rentalreturnstatecountry</td> <td>State/Country-ISO3</td> </tr> <tr> <td>rentalreturnlocationid</td> <td>10 chars location id</td> </tr> </table> | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | rentalrate | Rate amount of rental. | noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | rentaldate | YY/MM/DD | rentalreturndate | YY/MM/DD | rentername | Name of Renter | rentalreturncity | City it was returned in | rentalreturnstatecountry | State/Country-ISO3 | rentalreturnlocationid | 10 chars location id | |
| rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | | | | | | | | | | | | | | | | | | | | | | |
| rentalrate | Rate amount of rental. | | | | | | | | | | | | | | | | | | | | | | |
| noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | | | | | | | | | | | | | | | | | | | | | | |
| extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | | | | | | | | | | | | | | | | | | | | | | |
| rentaldate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | | |
| rentalreturndate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | | |
| rentername | Name of Renter | | | | | | | | | | | | | | | | | | | | | | |
| rentalreturncity | City it was returned in | | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnstatecountry | State/Country-ISO3 | | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnlocationid | 10 chars location id | | | | | | | | | | | | | | | | | | | | | | |
| autorepair | | <table border="1"> <tr> <td>vin</td> <td>Vehicle Identification Number</td> </tr> <tr> <td>odometer</td> <td>Mileage read from the odometer</td> </tr> <tr> <td>workorder</td> <td>Merchant's work order number</td> </tr> <tr> <td>unit</td> <td>Truck/Vehicle unit number</td> </tr> <tr> <td>repaircode</td> <td>Code use to identify the type of repair done.</td> </tr> </table> | vin | Vehicle Identification Number | odometer | Mileage read from the odometer | workorder | Merchant's work order number | unit | Truck/Vehicle unit number | repaircode | Code use to identify the type of repair done. | | | | | | | | | | | |
| vin | Vehicle Identification Number | | | | | | | | | | | | | | | | | | | | | | |
| odometer | Mileage read from the odometer | | | | | | | | | | | | | | | | | | | | | | |
| workorder | Merchant's work order number | | | | | | | | | | | | | | | | | | | | | | |
| unit | Truck/Vehicle unit number | | | | | | | | | | | | | | | | | | | | | | |
| repaircode | Code use to identify the type of repair done. | | | | | | | | | | | | | | | | | | | | | | |
| purchasecardlevel3 | | <table border="1"> <tr> <td>lineitems</td> <td>Refer to Appendix F:</td> </tr> </table> | lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | | | | |
| lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | | | | | | | |
| fleetcarddata | | <table border="1"> <tr> <td>atpump</td> <td>0 is no 1 is yes</td> </tr> <tr> <td>idnumber</td> <td>User ID</td> </tr> <tr> <td>vehicleid</td> <td>Vehicle ID</td> </tr> <tr> <td>driverid</td> <td>Driver ID</td> </tr> <tr> <td>odometerreading</td> <td>Odometer</td> </tr> <tr> <td>miscnumericdata</td> <td>Cust Data</td> </tr> <tr> <td>jobnumber</td> <td>Job Number</td> </tr> <tr> <td>purchasedevsequencenumber</td> <td>Purchase Device Sequence Number</td> </tr> <tr> <td>departmentnumber</td> <td>Department Number</td> </tr> </table> | atpump | 0 is no 1 is yes | idnumber | User ID | vehicleid | Vehicle ID | driverid | Driver ID | odometerreading | Odometer | miscnumericdata | Cust Data | jobnumber | Job Number | purchasedevsequencenumber | Purchase Device Sequence Number | departmentnumber | Department Number | | | |
| atpump | 0 is no 1 is yes | | | | | | | | | | | | | | | | | | | | | | |
| idnumber | User ID | | | | | | | | | | | | | | | | | | | | | | |
| vehicleid | Vehicle ID | | | | | | | | | | | | | | | | | | | | | | |
| driverid | Driver ID | | | | | | | | | | | | | | | | | | | | | | |
| odometerreading | Odometer | | | | | | | | | | | | | | | | | | | | | | |
| miscnumericdata | Cust Data | | | | | | | | | | | | | | | | | | | | | | |
| jobnumber | Job Number | | | | | | | | | | | | | | | | | | | | | | |
| purchasedevsequencenumber | Purchase Device Sequence Number | | | | | | | | | | | | | | | | | | | | | | |
| departmentnumber | Department Number | | | | | | | | | | | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--------------------|---|
| ipaddress | | Customer's web browser IP address |
| dobday | | Date Of Birth - Day (2 digits) |
| dobmonth | | Date Of Birth - Month (2 digits) |
| dobyear | | Date Of Birth - Year (4 digits) |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |
| 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 - 1D4 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 | |

Online Commerce Suite™ SOAP Integration Guide

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|-----------------|--|---|--|
| | | | 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 |
| contactlessflag | | Flag to indicate an ApplePay or NFC transaction (0=no, 1=yes) | |

Note: Refer to **ProcessResult** for transaction result.

processDebitReturn (Debit Card Return)

| Field | Required | Description | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------------|--|-----------|-------------------------|----------|-------------------------|-----------|-------------------------|----------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|-----------|------------|---------------------------|---------------------------------|------------------|-------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | | | | | | | |
| customerid | X | 32 byte Encrypted PIN pad data. Includes 16 byte PIN data followed by 6 byte key set and 10 byte PIN pad serial number. | | | | | | | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field | | | | | | |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| purchasecardlevel3 | | <table border="1"> <tr> <td>lineitems</td> <td>Refer to Appendix F:</td> </tr> </table> | lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | |
| lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | | | | |
| fleetcarddata | | <table border="1"> <tr> <td>atpump</td> <td>0 is no 1 is yes</td> </tr> <tr> <td>idnumber</td> <td>User ID</td> </tr> <tr> <td>vehicleid</td> <td>Vehicle ID</td> </tr> <tr> <td>driverid</td> <td>Driver ID</td> </tr> <tr> <td>odometerreading</td> <td>Odometer</td> </tr> <tr> <td>miscnumericdata</td> <td>Cust Data</td> </tr> <tr> <td>jobnumber</td> <td>Job Number</td> </tr> <tr> <td>purchasedevsequencenumber</td> <td>Purchase Device Sequence Number</td> </tr> <tr> <td>departmentnumber</td> <td>Department Number</td> </tr> </table> | atpump | 0 is no 1 is yes | idnumber | User ID | vehicleid | Vehicle ID | driverid | Driver ID | odometerreading | Odometer | miscnumericdata | Cust Data | jobnumber | Job Number | purchasedevsequencenumber | Purchase Device Sequence Number | departmentnumber | Department Number |
| atpump | 0 is no 1 is yes | | | | | | | | | | | | | | | | | | | |
| idnumber | User ID | | | | | | | | | | | | | | | | | | | |
| vehicleid | Vehicle ID | | | | | | | | | | | | | | | | | | | |
| driverid | Driver ID | | | | | | | | | | | | | | | | | | | |
| odometerreading | Odometer | | | | | | | | | | | | | | | | | | | |
| miscnumericdata | Cust Data | | | | | | | | | | | | | | | | | | | |
| jobnumber | Job Number | | | | | | | | | | | | | | | | | | | |
| purchasedevsequencenumber | Purchase Device Sequence Number | | | | | | | | | | | | | | | | | | | |
| departmentnumber | Department Number | | | | | | | | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | | | | | | | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | | | | | | | | | | | | | | | | | | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | | | | | | | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processDebitPost (Post/Capture Previous Debit Auth)

| Field | Required | Description | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------------|--|-----------|-------------------------|----------|-------------------------|-----------|-------------------------|----------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|-----------|------------|---------------------------|---------------------------------|------------------|-------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | | | | | | | |
| customerid | | 32 byte Encrypted PIN pad data. Includes 16 byte PIN data followed by 6 byte key set and 10 byte PIN pad serial number. | | | | | | | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field | | | | | | |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| purchasecardlevel3 | | <table border="1"> <tr> <td>lineitems</td> <td>Refer to Appendix F:</td> </tr> </table> | lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | |
| lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | | | | |
| fleetcarddata | | <table border="1"> <tr> <td>atpump</td> <td>0 is no 1 is yes</td> </tr> <tr> <td>idnumber</td> <td>User ID</td> </tr> <tr> <td>vehicleid</td> <td>Vehicle ID</td> </tr> <tr> <td>driverid</td> <td>Driver ID</td> </tr> <tr> <td>odometerreading</td> <td>Odometer</td> </tr> <tr> <td>miscnumericdata</td> <td>Cust Data</td> </tr> <tr> <td>jobnumber</td> <td>Job Number</td> </tr> <tr> <td>purchasedevsequencenumber</td> <td>Purchase Device Sequence Number</td> </tr> <tr> <td>departmentnumber</td> <td>Department Number</td> </tr> </table> | atpump | 0 is no 1 is yes | idnumber | User ID | vehicleid | Vehicle ID | driverid | Driver ID | odometerreading | Odometer | miscnumericdata | Cust Data | jobnumber | Job Number | purchasedevsequencenumber | Purchase Device Sequence Number | departmentnumber | Department Number |
| atpump | 0 is no 1 is yes | | | | | | | | | | | | | | | | | | | |
| idnumber | User ID | | | | | | | | | | | | | | | | | | | |
| vehicleid | Vehicle ID | | | | | | | | | | | | | | | | | | | |
| driverid | Driver ID | | | | | | | | | | | | | | | | | | | |
| odometerreading | Odometer | | | | | | | | | | | | | | | | | | | |
| miscnumericdata | Cust Data | | | | | | | | | | | | | | | | | | | |
| jobnumber | Job Number | | | | | | | | | | | | | | | | | | | |
| purchasedevsequencenumber | Purchase Device Sequence Number | | | | | | | | | | | | | | | | | | | |
| departmentnumber | Department Number | | | | | | | | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | | | | | | | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | | | | | | | | | | | | | | | | | | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | | | | | | | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processDebitVoid (Debit Card Void)

| Field | Required | Description | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------------|--|-----------|-------------------------|----------|-------------------------|-----------|-------------------------|----------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|-----------|------------|---------------------------|---------------------------------|------------------|-------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | | | | | | | |
| customerid | | 32 byte Encrypted PIN pad data. Includes 16 byte PIN data followed by 6 byte key set and 10 byte PIN pad serial number. | | | | | | | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field | | | | | | |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | | | | | | | |
| purchasecardlevel3 | | <table border="1"> <tr> <td>lineitems</td> <td>Refer to Appendix F:</td> </tr> </table> | lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | |
| lineitems | Refer to Appendix F: | | | | | | | | | | | | | | | | | | | |
| fleetcarddata | | <table border="1"> <tr> <td>atpump</td> <td>0 is no 1 is yes</td> </tr> <tr> <td>idnumber</td> <td>User ID</td> </tr> <tr> <td>vehicleid</td> <td>Vehicle ID</td> </tr> <tr> <td>driverid</td> <td>Driver ID</td> </tr> <tr> <td>odometerreading</td> <td>Odometer</td> </tr> <tr> <td>miscnumericdata</td> <td>Cust Data</td> </tr> <tr> <td>jobnumber</td> <td>Job Number</td> </tr> <tr> <td>purchasedevsequencenumber</td> <td>Purchase Device Sequence Number</td> </tr> <tr> <td>departmentnumber</td> <td>Department Number</td> </tr> </table> | atpump | 0 is no 1 is yes | idnumber | User ID | vehicleid | Vehicle ID | driverid | Driver ID | odometerreading | Odometer | miscnumericdata | Cust Data | jobnumber | Job Number | purchasedevsequencenumber | Purchase Device Sequence Number | departmentnumber | Department Number |
| atpump | 0 is no 1 is yes | | | | | | | | | | | | | | | | | | | |
| idnumber | User ID | | | | | | | | | | | | | | | | | | | |
| vehicleid | Vehicle ID | | | | | | | | | | | | | | | | | | | |
| driverid | Driver ID | | | | | | | | | | | | | | | | | | | |
| odometerreading | Odometer | | | | | | | | | | | | | | | | | | | |
| miscnumericdata | Cust Data | | | | | | | | | | | | | | | | | | | |
| jobnumber | Job Number | | | | | | | | | | | | | | | | | | | |
| purchasedevsequencenumber | Purchase Device Sequence Number | | | | | | | | | | | | | | | | | | | |
| departmentnumber | Department Number | | | | | | | | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | | | | | | | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | | | | | | | | | | | | | | | | | | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | | | | | | | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processDebitPinless (Pinless Debit)

| Field | Required | Description | | | | | | | | | | |
|--------------------|--|---|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | | | | | | | | | | |
| ccname | X | Consumer name as it appears on the card. | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | |
| cvv2_cid | | Credit card verification value/code (CVV2/CVC2) | | | | | | | | | | |
| voiceauth | | 6 character approval code obtained from the cardholder's issuing bank. | | | | | | | | | | |
| track1 | | Track 1 card swipe data | | | | | | | | | | |
| track2 | | Track 2 card swipe data | | | | | | | | | | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | | | | | | | | | | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | | | | | | | | | | |
| cardpresent | | A value of 1 indicates that the card was present | | | | | | | | | | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring billing</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring billing | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount |
| create | A value of 1 will create the recurring billing | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|------------------|----------------------------------|--|
| billaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| hotellodging | 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 |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|--------------------|---|------------|--|----------------|---|--------------|---|--------------|---|------------------|----------|------------|----------------|------------------|-------------------------|--------------------------|--------------------|------------------------|----------------------|
| | | <table border="1"> <tr> <td>purchaseid</td> <td>Hotel Folio number (25 characters alphanumeric)</td> </tr> <tr> <td>pproperty</td> <td>Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100</td> </tr> <tr> <td>extracharges</td> <td>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.</td> </tr> </table> | purchaseid | Hotel Folio number (25 characters alphanumeric) | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 | extracharges | 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. | | | | | | | | | | | | | | |
| purchaseid | Hotel Folio number (25 characters alphanumeric) | | | | | | | | | | | | | | | | | | | | | |
| pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 | | | | | | | | | | | | | | | | | | | | | |
| extracharges | 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. | | | | | | | | | | | | | | | | | | | | | |
| autorental | | <table border="1"> <tr> <td>rentalagreementnum</td> <td>25 alphanumeric chars. Note: Amex only uses the first 12 positions.</td> </tr> <tr> <td>rentalrate</td> <td>Rate amount of rental.</td> </tr> <tr> <td>noshworprogind</td> <td>Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show</td> </tr> <tr> <td>extracharges</td> <td>0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation</td> </tr> <tr> <td>rentaldate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentalreturndate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentername</td> <td>Name of Renter</td> </tr> <tr> <td>rentalreturncity</td> <td>City it was returned in</td> </tr> <tr> <td>rentalreturnstatecountry</td> <td>State/Country-ISO3</td> </tr> <tr> <td>rentalreturnlocationid</td> <td>10 chars location id</td> </tr> </table> | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | rentalrate | Rate amount of rental. | noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | rentaldate | YY/MM/DD | rentalreturndate | YY/MM/DD | rentername | Name of Renter | rentalreturncity | City it was returned in | rentalreturnstatecountry | State/Country-ISO3 | rentalreturnlocationid | 10 chars location id |
| rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | | | | | | | | | | | | | | | | | | | | | |
| rentalrate | Rate amount of rental. | | | | | | | | | | | | | | | | | | | | | |
| noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | | | | | | | | | | | | | | | | | | | | | |
| extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | | | | | | | | | | | | | | | | | | | | | |
| rentaldate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | |
| rentalreturndate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | |
| rentername | Name of Renter | | | | | | | | | | | | | | | | | | | | | |
| rentalreturncity | City it was returned in | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnstatecountry | State/Country-ISO3 | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnlocationid | 10 chars location id | | | | | | | | | | | | | | | | | | | | | |
| autorepair | | <table border="1"> <tr> <td>vin</td> <td>Vehicle Identification Number</td> </tr> <tr> <td>odometer</td> <td>Mileage read from the odometer</td> </tr> <tr> <td>workorder</td> <td>Merchant's work order number</td> </tr> <tr> <td>unit</td> <td>Truck/Vehicle unit number</td> </tr> <tr> <td>repaircode</td> <td>Code use to identify the type of repair done.</td> </tr> </table> | vin | Vehicle Identification Number | odometer | Mileage read from the odometer | workorder | Merchant's work order number | unit | Truck/Vehicle unit number | repaircode | Code use to identify the type of repair done. | | | | | | | | | | |
| vin | Vehicle Identification Number | | | | | | | | | | | | | | | | | | | | | |
| odometer | Mileage read from the odometer | | | | | | | | | | | | | | | | | | | | | |
| workorder | Merchant's work order number | | | | | | | | | | | | | | | | | | | | | |
| unit | Truck/Vehicle unit number | | | | | | | | | | | | | | | | | | | | | |
| repaircode | Code use to identify the type of repair done. | | | | | | | | | | | | | | | | | | | | | |
| fsa | | <table border="1"> <tr> <td>healthcareflag</td> <td>0 is off 1 is on</td> </tr> <tr> <td>rxamount</td> <td>Qualified Prescription amount.</td> </tr> <tr> <td>clinicamount</td> <td>Qualified Medical Clinic amount.</td> </tr> <tr> <td>visionamount</td> <td>Qualified Vision amount.</td> </tr> <tr> <td>dentalamount</td> <td>Qualified Dental amount.</td> </tr> </table> | healthcareflag | 0 is off 1 is on | rxamount | Qualified Prescription amount. | clinicamount | Qualified Medical Clinic amount. | visionamount | Qualified Vision amount. | dentalamount | Qualified Dental amount. | | | | | | | | | | |
| healthcareflag | 0 is off 1 is on | | | | | | | | | | | | | | | | | | | | | |
| rxamount | Qualified Prescription amount. | | | | | | | | | | | | | | | | | | | | | |
| clinicamount | Qualified Medical Clinic amount. | | | | | | | | | | | | | | | | | | | | | |
| visionamount | Qualified Vision amount. | | | | | | | | | | | | | | | | | | | | | |
| dentalamount | Qualified Dental amount. | | | | | | | | | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

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|----------------------|--|--|--|
| 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. |
| restaurant | | gratuityamount | The Gratuity Amount. |
| purchasecardlevel3 | | lineitems | Refer to Appendix F: |
| fleetcarddata | | atpump | 0 is no 1 is yes |
| | | idnumber | User ID |
| | | vehicleid | Vehicle ID |
| | | driverid | Driver ID |
| | | odometerreading | Odometer |
| | | miscnumericdata | Cust Data |
| | | jobnumber | Job Number |
| | | purchasedevsequencenumber | Purchase Device Sequence Number |
| | | departmentnumber | Department Number |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ipaddress | | Customer's web browser IP address | |
| manualrecurring | | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | | Date Of Birth - Day (2 digits) | |
| dobmonth | | Date Of Birth - Month (2 digits) | |
| dobyear | | Date Of Birth - Year (4 digits) | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | |
| 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. | |
| avs_override | | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | | Default = 0, 1 = Override CVV2 Settings | |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|---|
| 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 - 1D4 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 | |

Online Commerce Suite™ SOAP Integration Guide

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|-----------------|--------------------------|---|
| | 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 |
| | customerexcdta | 9F7C - In US contactless transactions, issuer proprietary info |
| contactlessflag | | Flag to indicate an ApplePay or NFC transaction (0=no, 1=yes) |

Note: Refer to **ProcessResult** for transaction result.

processDebitPinlessCredit (Pinless Debit Credit)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|--|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only if transaction was submitted under a Sub ID. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order ID of the original transaction | | | | | | | | | | | | |
| historyid | X | History ID of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tbody> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </tbody> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

ACH Transactions

processACHSale (ACH Sale)

| Field | Required | Description | | | | | | | | | | |
|------------------|--|--|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|----------------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | |
| ckname | X | Payer's name | | | | | | | | | | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | | | | | | | | | | |
| ckno | X | Check Number | | | | | | | | | | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | | | | | | | | | | |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | | | | | | | | | | |
| verificationflag | | A value of "1" is required to activate Verification (check number, SSN, driver's license, phone). | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | |
| ckaccttype | | "1" - Checking, "2" - Savings | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td> 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 </td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount |
| create | A value of 1 will create the recurring | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | |
| billaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code |
| addr1 | Consumer billing address | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|----------------------------------|--|
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| hotellodging | | 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) |
| | | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | | extracharges | 6 1-digit codes, each a partial or complete explanation of |

Online Commerce Suite™ SOAP Integration Guide

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|--------------------------|---|---|--------------------|---|------------|------------------------|----------------|---|--------------|---|------------|----------|------------------|----------|------------|----------------|------------------|-------------------------|--------------------------|--------------------|------------------------|----------------------|
| | | 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. | | | | | | | | | | | | | | | | | | | | |
| autorental | | <table border="1"> <tr> <td>rentalagreementnum</td> <td>25 alphanumeric chars. Note: Amex only uses the first 12 positions.</td> </tr> <tr> <td>rentalrate</td> <td>Rate amount of rental.</td> </tr> <tr> <td>noshworprogind</td> <td>Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show</td> </tr> <tr> <td>extracharges</td> <td>0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation</td> </tr> <tr> <td>rentaldate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentalreturndate</td> <td>YY/MM/DD</td> </tr> <tr> <td>rentername</td> <td>Name of Renter</td> </tr> <tr> <td>rentalreturncity</td> <td>City it was returned in</td> </tr> <tr> <td>rentalreturnstatecountry</td> <td>State/Country-ISO3</td> </tr> <tr> <td>rentalreturnlocationid</td> <td>10 chars location id</td> </tr> </table> | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | rentalrate | Rate amount of rental. | noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | rentaldate | YY/MM/DD | rentalreturndate | YY/MM/DD | rentername | Name of Renter | rentalreturncity | City it was returned in | rentalreturnstatecountry | State/Country-ISO3 | rentalreturnlocationid | 10 chars location id |
| rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. | | | | | | | | | | | | | | | | | | | | | |
| rentalrate | Rate amount of rental. | | | | | | | | | | | | | | | | | | | | | |
| noshworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show | | | | | | | | | | | | | | | | | | | | | |
| extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation | | | | | | | | | | | | | | | | | | | | | |
| rentaldate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | |
| rentalreturndate | YY/MM/DD | | | | | | | | | | | | | | | | | | | | | |
| rentername | Name of Renter | | | | | | | | | | | | | | | | | | | | | |
| rentalreturncity | City it was returned in | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnstatecountry | State/Country-ISO3 | | | | | | | | | | | | | | | | | | | | | |
| rentalreturnlocationid | 10 chars location id | | | | | | | | | | | | | | | | | | | | | |
| ssnum | | Consumer Social Security Number | | | | | | | | | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | | | | | | | | | |
| ckmicrdata | | MICR data read from the MICR line | | | | | | | | | | | | | | | | | | | | |
| ckterminalcity | | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | | | | | | | | | | | | | | | | | | | | |
| ckterminalstate | | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | | | | | | | | | | | | | | | | | | | | |
| ckimagefront | | Front image of the check. Maximum of 20K. | | | | | | | | | | | | | | | | | | | | |
| ckimageback | | Back image of the check. Maximum of 20K. | | | | | | | | | | | | | | | | | | | | |
| ckimagetype | | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. | | | | | | | | | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | | | | | | | | | |
| dobday | | Date Of Birth - Day (2 digits) | | | | | | | | | | | | | | | | | | | | |
| dobmonth | | Date Of Birth - Month (2 digits) | | | | | | | | | | | | | | | | | | | | |
| dobyear | | Date Of Birth - Year (4 digits) | | | | | | | | | | | | | | | | | | | | |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | | | | | | | | | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|-------------|--|---|
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processACHCredit (ACH Standalone Credit)

| Field | Required | Description | | | | | | | | | | |
|--------------|--|---|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | |
| ckname | X | Payer's name | | | | | | | | | | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | | | | | | | | | | |
| ckno | X | Check Number (serial number) | | | | | | | | | | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | | | | | | | | | | |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | |
| ckaccttype | | "1" - Checking, "2" - Savings | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount |
| create | A value of 1 will create the recurring | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|--|
| billaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is 'null@atsbank.com'. |
| | emailsubject | Subject line on consumer's receipt email. Default message is 'Payment Receipt #xyz'. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ckmicrdata | MICR data read from the MICR line | |
| ckterminalcity | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|--------------------|--|---|
| ckimagefront | | Front image of the check. Maximum of 20K. |
| ckimageback | | Back image of the check. Maximum of 20K. |
| ckimagetype | | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. |
| ipaddress | | Customer's web browser IP address |
| dobday | | Date Of Birth - Day (2 digits) |
| dobmonth | | Date Of Birth - Month (2 digits) |
| dobyear | | Date Of Birth - Year (4 digits) |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processACHVerification (ACH Verification)

| Field | Required | Description |
|-------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |
| ckname | X | Payer's name |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. |
| ckacct | X | Variable length numeric value without spaces for checking account number. |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" |
| ckaccttype | X | "1" - Checking, "2" - Savings |
| ckno | | Check Number |
| ssnum | | Social Security Number |
| dlnum | | Driver License Number |
| phone | | Phone Number |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. |
| companyname | | Your company name |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|--|
| billaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ckmicrdata | MICR data read from the MICR line | |
| ckterminalcity | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |
| ckimagefront | Front image of the check. Maximum of 20K. | |
| ckimageback | Back image of the check. Maximum of 20K. | |
| ckimagetype | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|-------------|--|---|
| | | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. |
| ipaddress | | Customer's web browser IP address |
| merchantpin | | Merchant's security PIN. |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

Check 21 Transactions

processC21Sale (Check 21 Sale)

| Field | Required | Description | | | | | | | | | | | | |
|------------------------|---|--|-------|--------------------------|-------|---|------|---------------|-------|----------------------------|-----|----------------------------------|---------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| ckname | X | Payer's full name on account | | | | | | | | | | | | |
| firstname | X | Payer's first name | | | | | | | | | | | | |
| lastname | X | Payer's last name | | | | | | | | | | | | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | | | | | | | | | | | | |
| ckno | X | Check Number (serial number) | | | | | | | | | | | | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | | | | | | | | | | | | |
| ckaccttype | X | "P" - Personal, "B" - Business | | | | | | | | | | | | |
| billstreet | X | Payer's Street | | | | | | | | | | | | |
| houzenumber | X | Payer's house number. | | | | | | | | | | | | |
| companyname | X | Company name if "ckaccttype = B" | | | | | | | | | | | | |
| phone | X | Consumer phone | | | | | | | | | | | | |
| email | X | Consumer email | | | | | | | | | | | | |
| billaddress | X | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| currencycode | | Three-letter ISO4217 currency code (USD) | | | | | | | | | | | | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | | | | | | | | | | | | |
| zip4 | | Payer's zip code. USA ZIP+4 Format | | | | | | | | | | | | |
| Riskmodifier | | <p>Extended risk check of the check routing and account number can be modified by this field.</p> <p>0 - disables risk checks 1 - forces risk checks</p> <p>If not specified, the contract default will be used, according to the threshold.</p> <ul style="list-style-type: none"> • This feature might not be available. | | | | | | | | | | | | |
| authenticationmodifier | | <p>Authentication of the payer name and address can be modified by this field.</p> <p>0 - disables payer authentication checks</p> | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|-------------------|--|--|---------|--|--------------|--|------------|--|---------|-----------------------------------|---------|----------------------------------|---------|-------------------------|
| | | <p>1 - forces payer authentication checks If not specified, the contract default will be used, according to the threshold.</p> <ul style="list-style-type: none"> • This feature might not be available. | | | | | | | | | | | | |
| insurancemodifier | | <p>Insurance that the amount will clear can be modified by this field 0 - disables insurance 1 - forces insurance If not specified, the contract default will be used, according to the threshold.</p> <ul style="list-style-type: none"> • This feature might not be available. | | | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td> 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 </td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount | | |
| create | A value of 1 will create the recurring | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | | | |
| shipaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| memo | | Miscellaneous information field | | | | | | | | | | | | |
| dlnum | | Consumer driver's license number | | | | | | | | | | | | |
| ssnum | | Consumer Social Security Number | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|---|--|
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is 'null@atsbank.com'. |
| | emailsubject | Subject line on consumer's receipt email. Default message is 'Payment Receipt #xzy'. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ckmicrdata | MICR data read from the MICR line | |
| ckterminalcity | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |
| ckimagefront | Front image of the check. Maximum of 20K. | |
| ckimageback | Back image of the check. Maximum of 20K. | |
| ckimagetype | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. | |
| ipaddress | Customer's web browser IP address | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |
| merchantpin | Merchant's security PIN. | |
| duplicate_override | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |
| overridepin | | |
| guid | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | |

Note: Refer to **ProcessResult** for transaction result.

processC21Credit (Check 21 Credit/Refund)

| Field | Required | Description |
|--------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only If transaction was submitted under a sub id. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|---------------------|-------------------------|---|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | |
| senddate | | The time at which the refund check will be printed. Format: YYYY-MM-DD. This date must be the date this transaction is sent or later. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| merchantpin | | Merchant's security PIN. | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processC21Void (Check 21 Void)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|---|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| merchantpin | | Merchant's security PIN. | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|-------------|--|---|
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

3rd Party Check Processing Service Providers

processExtACHSale (EXT Check Sale)

| Field | Required | Description | | | | | | | | | | |
|----------------|--|--|--------|--|--------------|--|------------|--|-------|-----------------------------------|--------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | |
| ckname | X | Payer's name | | | | | | | | | | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | | | | | | | | | | |
| ckno | X | Check Number (Required for TEL, RCK, BOC, ARC) | | | | | | | | | | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | | | | | | | | | | |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | | | | | | | | | | |
| ckaccttypedesc | X | ACH Account Type description. One of the following: Personal Checking Personal Saving Business Checking Business Saving | | | | | | | | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | | | | | | | | | | |
| ckaccttype | | "1" - Checking, "2" - Savings | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | |
| recurring | | <table border="1"> <tbody> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </tbody> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | amount | Recurring amount |
| create | A value of 1 will create the recurring | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | |

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| | | |
|---------------------|--|--|
| billaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ckmicrdata | MICR data read from the MICR line | |
| ckterminalcity | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|--------------------|--|---|
| ckimagefront | | Front image of the check. Maximum of 20K. |
| ckimageback | | Back image of the check. Maximum of 20K. |
| ckimagetype | | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. |
| dobday | | Date Of Birth - Day (2 digits) |
| dobmonth | | Date Of Birth - Month (2 digits) |
| dobyear | | Date Of Birth - Year (4 digits) |
| ipaddress | | Customer's web browser IP address |
| merchantpin | | Merchant's security PIN |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processExtACHCredit (Ext Check Credit/Refund)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|--|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| customizedfields | | <table border="1" style="width: 100%;"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| merchantpin | | Merchant's security PIN. | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |

| | | |
|------|--|---|
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |
|------|--|---|

Note: Refer to **ProcessResult** for transaction result.

processExtACHVoid (Ext Check Void)

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|---|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | |
| orderid | X | Order key id of the original transaction | | | | | | | | | | | | |
| historyid | X | History key id of the original transaction | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| merchantpin | | Merchant's security PIN. | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

processExtACHConsumerDisbursement (EXT Check Consumer Disbursement)

| Field | Required | Description |
|--------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |

Online Commerce Suite™ SOAP Integration Guide

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|----------------|---|---|--|
| ckname | X | Payer's name | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | |
| ckno | X | Check Number (Required for TEL, RCK, BOC, ARC) | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | |
| ckaccttypedesc | X | ACH Account Type description. One of the following: Personal Checking Personal Saving Business Checking Business Saving | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | |
| ckaccttype | | "1" - Checking, "2" - Savings | |
| companyname | | Your company name | |
| recurring | | create | A value of 1 will create the recurring |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | | start | Number of days to start the recur |
| | | amount | Recurring amount |
| | | billaddress | |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|--|
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ckmicrdata | MICR data read from the MICR line | |
| ckterminalcity | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |
| ckimagefront | Front image of the check. Maximum of 20K. | |
| ckimageback | Back image of the check. Maximum of 20K. | |
| ckimagetype | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|--------------------|--|---|
| ipaddress | | Customer's web browser IP address |
| merchantpin | | Merchant's security PIN |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

Transaction Retrieve

processTransRetrieve (Trans Retrieve)

| Field | Required | Description |
|---------------------|----------|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | X | Required only If transaction was submitted under a sub id. |
| merchantordernumber | X | Customer's unique alpha-numeric number |
| merchantpin | X | Merchant Unique PIN. Required if enabled. |
| ipaddress | X | Customer's web browser IP address |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

Stored Profiles

processProfileSale (Profile Sale)

| Field | Required | Description | | | | | | | | | | | | |
|-------------------|--|---|--------|--|--------------|--|------------|--|-------|-----------------------------------|-----|----------------------------------|---------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only If transaction was submitted under a sub id. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| userprofileid | X | User profile id of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. Required if enabled. | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| last4digits | X | last4digits of the Credit card or ACH number | | | | | | | | | | | | |
| cvv2_cid | | Credit card verification value cvv2/cvc2 code | | | | | | | | | | | | |
| shipaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| email | | Consumer email address | | | | | | | | | | | | |
| memo | | Miscellaneous information field | | | | | | | | | | | | |
| dlnum | | Consumer driver's license number | | | | | | | | | | | | |
| ssnum | | Consumer Social Security Number | | | | | | | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | | | | | | | |
| recurring | | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring</td> </tr> <tr> <td>billingcycle</td> <td> 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 </td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> </table> | create | A value of 1 will create the recurring | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | Number of days to start the recur | | | | |
| create | A value of 1 will create the recurring | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | | | |
| start | Number of days to start the recur | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|--------------------|---|
| | | amount | Recurring amount |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| hotellodging | | 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) |
| | | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | | extracharges | 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. |
| autorental | | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | | rentalrate | Rate amount of rental. |
| | | noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | | extracharges | 0 - No extra charge 1 - Gasoline |

Online Commerce Suite™ SOAP Integration Guide

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|----------------------|--|--|--|
| | | | 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | | rentaldate | YY/MM/DD |
| | | rentalreturndate | YY/MM/DD |
| | | rentername | Name of Renter |
| | | rentalreturncity | City it was returned in |
| | | rentalreturnstatecountry | State/Country-ISO3 |
| | | rentalreturnlocationid | 10 chars location id |
| fsa | | health care flag | 0 is off 1 is on |
| | | rxamount | Qualified Prescription amount. |
| | | clinicamount | Qualified Medical Clinic amount. |
| | | visionamount | Qualified Vision amount. |
| | | dentalamount | Qualified Dental amount. |
| purchasecardlevel2 | | pocustomerrefid | 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. |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | |
| manualrecurring | | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| ipaddress | | Customer's web browser IP address | |
| 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. | |
| avs_override | | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | | Default = 0, 1 = Override CVV2 Settings | |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. | |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings | |
| overridepin | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | |

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileDelete (Profile Delete)

| Field | Required | Description |
|---------------|----------|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only If transaction was submitted under a sub id. |
| userprofileid | X | User profile id of the original transaction |
| merchantpin | X | Merchant Unique PIN. Required if enabled. |
| ipaddress | X | Customer's web browser IP address |
| last4digits | X | last4digits of the Credit card or ACH number |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileCredit (Profile Credit)

| Field | Required | Description |
|---------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | X | Required only If transaction was submitted under a sub id. |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. |
| userprofileid | X | User profile id of the original transaction |
| merchantpin | X | Merchant Unique PIN. Required if enabled. |
| last4digits | X | last4digits of the Credit card or ACH number |
| phone | | Consumer phone number |
| email | | Consumer email address |
| memo | | Miscellaneous information field |
| dlnum | | Consumer driver's license number |
| ssnum | | Consumer Social Security Number |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|---|--|
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| customizedemail | custom1 | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | Customer's unique alpha-numeric number | |
| currencycode | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | Industry Code One character value: (refer to Appendix F-7) | |
| ipaddress | Customer's web browser IP address | |
| recurring | create | A value of 1 will create the recurring |
| | 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 |
| | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | start | Number of days to start the recur |
| | amount | Recurring amount |
| overridepin | | |
| guid | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | |

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileAdd (Credit Card Profile Add)

| Field | Required | Description | |
|--------------------|----------|--|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | |
| ccnum | X | Credit Card number keyed in (when a swipe reader is unable to detect the card number) | |
| expmon | X | Expiration month keyed in (when a swipe reader is unable to detect the card number) | |
| expyear | X | Expiration year keyed in (when a swipe reader is unable to detect the card number) | |
| ccname | X | Consumer name as it appears on the card. | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| cvv2_cid | | Credit card verification value cvv2/cvc2 code | |
| voiceauth | | 6 character approval codes obtained from the cardholder's issuing bank. | |
| track1 | | Track 1 card swipe data | |
| track2 | | Track 2 card swipe data | |
| swipedata | | Card swipe data (must include either track1 or track2 data) | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | |
| cardpresent | | A value of 1 indicates that the card was present | |
| cardreaderpresent | | A value of 1 indicates that a card reader was present | |
| companyname | | Your company name | |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|---------------------|--|---|--|
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| customizedemail | | custom1 | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) | |
| ipaddress | | Customer's web browser IP address | |
| recurring | | create | A value of 1 will create the recurring |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | | start | Number of days to start the recur |
| | | amount | Recurring amount |
| profileactiontype | | <p>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.</p> <p>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.</p> | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|--|--|---|
| | | <p>2 - will run a Sale for the amount requested. If the Sale is successful the payment type will be added to the vault.</p> <p>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".</p> |
|--|--|---|

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileAdd (ACH Profile Add)

| Field | Required | Description | |
|-------------|----------|--|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | |
| ckname | X | Payer's name | |
| ckaba | X | Nine-digit numeric value without spaces for checking account routing or ABA number. | |
| ckno | X | Check Number (serial number) | |
| ckacct | X | Variable length numeric value without spaces for checking account number. | |
| cktype | X | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | |
| ckaccttype | | "1" - Checking, "2" - Savings | |
| companyname | | Your company name | |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|---------------------|--|--|--|
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ckmicrdata | | MICR data read from the MICR line | |
| ckterminalcity | | 4 character abbreviated name for the city where the POS terminal is located. Required for POP transactions | |
| ckterminalstate | | 2 character state abbreviation of the state where the POS terminal is located. Required for POP transactions | |
| ckimagefront | | Front image of the check. Maximum of 20K. | |
| ckimageback | | Back image of the check. Maximum of 20K. | |
| ckimagetype | | "TIF", "JPG", or "GIF". Only required if check image front or check image back is used. | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| ipaddress | | Customer's web browser IP address | |
| recurring | | create | A value of 1 will create the recurring |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | |
|-------------------|-----------------------------------|--|-------|-----------------------------------|--------|------------------|
| | | <table border="1"> <tr> <td>start</td> <td>Number of days to start the recur</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | start | Number of days to start the recur | amount | Recurring amount |
| start | Number of days to start the recur | | | | | |
| amount | Recurring amount | | | | | |
| profileactiontype | | 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) Values other than 2 or 3 will default to an Import Only. | | | | |
| overridepin | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | |

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileUpdate (Profile Update)

| Field | Required | Description |
|--------------------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only If transaction was submitted under a sub id. |
| userprofileid | X | User profile id of the original transaction |
| merchantpin | | Merchant Unique PIN. Required if enabled. |
| ipaddress | | Customer's web browser IP address |
| last4digits | X | last4digits of the Credit card or ACH number |
| accttype | X | 1 = CC, 2 = ACH |
| profilenobill | X | default is empty (PreAuth CC on Update), 1 = Do not PreAuth CC. |
| ccnum | | Credit Card number keyed in (when a swipe reader is unable to detect the card number) |
| expmon | | Expiration month keyed in (when a swipe reader is unable to detect the card number) |
| expyear | | Expiration year keyed in (when a swipe reader is unable to detect the card number) |
| ccname | | Consumer name as it appears on the card. |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. |
| cvv2_cid | | Credit card verification value cvv2/cvc2 code |
| track1 | | Track 1 card swipe data |
| track2 | | Track 2 card swipe data |
| swipedata | | Card swipe data (must include either track1 or track2 data) |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) |
| cardpresent | | A value of 1 indicates that the card was present |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|-------------------|--|---|--|
| cardreaderpresent | | A value of 1 indicates that a card reader was present | |
| ckname | | Account Name | |
| ckaba | | Nine-digit numeric value without spaces for checking account routing or ABA number. | |
| ckno | | Check Number (serial number) | |
| ckacct | | Variable length numeric value without spaces for checking account number. | |
| cktype | | SEC Code: "WEB" or "POP" or "ARC" or "TEL" or "PPD" or "ICL" or "RCK" or "BOC" | |
| companyname | | Your company name | |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | |
|---------------------|--|--|--------------|--|-----------|--|
| | | <table border="1"> <tr> <td>emailsubject</td> <td>Subject line on consumer's receipt email. Default message is Payment Receipt #xzy.</td> </tr> <tr> <td>emailtext</td> <td>Consumer's e-mail receipt body text. Default is a generic receipt message.</td> </tr> </table> | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | | | | | |
| emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | |
| ipaddress | | Customer's web browser IP address | | | | |
| overridepin | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | |

Note: Refer to **ProcessProfileResult** for transaction result.

processProfileRetrieve (Profile Retrieve)

| Field | Required | Description |
|---------------|----------|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only If transaction was submitted under a sub id. |
| userprofileid | X | User profile id of the original transaction |
| merchantpin | X | Merchant Unique PIN. Required if enabled. |
| ipaddress | | Customer's web browser IP address |
| last4digits | X | last4digits of the Credit card or ACH number |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessProfileResult** for transaction result.

processAccountLookup (AccountLookup)

| Field | Required | Description |
|--------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required only If transaction was submitted under a sub id. |
| ssnum | X | User profile id of the original transaction |

Online Commerce Suite™ SOAP Integration Guide

| | | | | |
|-------------|---|---|--|--|
| billaddress | X | addr1 | | |
| | | addr2 | | |
| | | city | | |
| | | state | | |
| | | zip | | Consumer Zip code or Postal code. Required for AccountLookup |
| | | country | | |
| merchantpin | | Merchant Unique PIN. Required if enabled. | | |
| ipaddress | | Customer's web browser IP address | | |
| overridepin | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | |

Note: Refer to **ProcessAccountLookupResult** for transaction result.

Recurring Records

processRecurAdd

| Field | Required | Description | | | | | | | | | | | | |
|-----------------------|--|--|--------|--|--------------|--|------------|--|-------|--|--------|----------------------------------|---------|------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required if record is processed under a SubID. | | | | | | | | | | | | |
| accttype | X | 1 = Credit Card 2 = Checks | | | | | | | | | | | | |
| acctdata1 | X | If AcctType = "1", then credit card number. If AcctType = "2", then ACH account number. | | | | | | | | | | | | |
| acctdata2 | X | If AcctType = "1", then credit card expiration date in MM/YYYY format. If AcctType = "2", then ACH Routing number. | | | | | | | | | | | | |
| acctname | X | Name of the Account Holder. | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| ipaddress | | Customer's web browser IP address | | | | | | | | | | | | |
| recurring | X | <table border="1"> <tr> <td>create</td> <td>A value of 1 will create the recurring billing</td> </tr> <tr> <td>billingcycle</td> <td>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</td> </tr> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>NOT USED.. Refer to "recur_nextbillingdate".</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | create | A value of 1 will create the recurring billing | 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 | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | NOT USED.. Refer to "recur_nextbillingdate". | amount | Recurring amount | | |
| create | A value of 1 will create the recurring billing | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | | | |
| start | NOT USED.. Refer to "recur_nextbillingdate". | | | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | | | |
| recur_nextbillingdate | X | Next scheduled date to bill recurring consumer (MM/DD/YYYY) | | | | | | | | | | | | |
| billaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|-------------------|--|--|
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| companyname | Your company name | |
| dynamicdescriptor | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| manualrecurring | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |
| currencycode | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | Industry Code One character value: (refer to Appendix F-7) | |
| avs_override | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | Default = 0, 1 = Override CVV2 Settings | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--|--|
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. |
| signature | | |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processRecurUpdate

| Field | Required | Description | |
|---------------------|----------|---|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | |
| subid | | Required if record is processed under a SubID. | |
| orderid | X | Orderid of the original transaction. | |
| accttype | | 1 = Credit Card 2 = Checks | |
| acctdata1 | | If AcctType = "1", then credit card number. If AcctType = "2", then ACH account number. | |
| acctdata2 | | If AcctType = "1", then credit card expiration date in MM/YYYY format. If AcctType = "2", then ACH Routing number. | |
| acctname | | Name of the Account Holder. | |
| merchantpin | X | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ipaddress | | Customer's web browser IP address | |
| recurring | | create | A value of 1 will create the recurring billing |
| | | 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 |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | |
|-----------------------|--|---|------------|--|-----------|---|--------------|--|-----------|--|-----|----------------------------------|---------|------------------|
| | | <p>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</p> | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td>billingmax</td> <td>Number of max re-bills (1, 2, 3, -1 = unlimited)</td> </tr> <tr> <td>start</td> <td>NOT USED.. Refer to "recur_nextbillingdate".</td> </tr> <tr> <td>amount</td> <td>Recurring amount</td> </tr> </table> | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | start | NOT USED.. Refer to "recur_nextbillingdate". | amount | Recurring amount | | | | | | |
| billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) | | | | | | | | | | | | | |
| start | NOT USED.. Refer to "recur_nextbillingdate". | | | | | | | | | | | | | |
| amount | Recurring amount | | | | | | | | | | | | | |
| recur_nextbillingdate | | Next scheduled date to bill recurring consumer (MM/DD/YYYY) | | | | | | | | | | | | |
| billaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| shipaddress | | <table border="1"> <tr> <td>addr1</td> <td>Consumer billing address</td> </tr> <tr> <td>addr2</td> <td>Second line of the consumer billing address</td> </tr> <tr> <td>city</td> <td>Consumer city</td> </tr> <tr> <td>state</td> <td>Consumer state or province</td> </tr> <tr> <td>zip</td> <td>Consumer Zip code or Postal code</td> </tr> <tr> <td>country</td> <td>Consumer country</td> </tr> </table> | addr1 | Consumer billing address | addr2 | Second line of the consumer billing address | city | Consumer city | state | Consumer state or province | zip | Consumer Zip code or Postal code | country | Consumer country |
| addr1 | Consumer billing address | | | | | | | | | | | | | |
| addr2 | Second line of the consumer billing address | | | | | | | | | | | | | |
| city | Consumer city | | | | | | | | | | | | | |
| state | Consumer state or province | | | | | | | | | | | | | |
| zip | Consumer Zip code or Postal code | | | | | | | | | | | | | |
| country | Consumer country | | | | | | | | | | | | | |
| phone | | Consumer phone number | | | | | | | | | | | | |
| email | | Consumer email address | | | | | | | | | | | | |
| memo | | Miscellaneous information field | | | | | | | | | | | | |
| dlnum | | Consumer driver's license number | | | | | | | | | | | | |
| ssnum | | Consumer Social Security Number | | | | | | | | | | | | |
| companyname | | Your company name | | | | | | | | | | | | |
| dynamicdescriptor | | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | | | | | | | | | | | | |
| customizedemail | | <table border="1"> <tr> <td>emailto</td> <td>E-mail address to send the consumer e-mail receipt. Default is ci_email address.</td> </tr> <tr> <td>emailfrom</td> <td>Return address on consumer's e-mail receipt. Default is null@atsbank.com.</td> </tr> <tr> <td>emailsubject</td> <td>Subject line on consumer's receipt email. Default message is Payment Receipt #xzy.</td> </tr> <tr> <td>emailtext</td> <td>Consumer's e-mail receipt body text. Default is a generic receipt message.</td> </tr> </table> | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. | | | | |
| emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. | | | | | | | | | | | | | |
| emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. | | | | | | | | | | | | | |
| emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. | | | | | | | | | | | | | |
| emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. | | | | | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|---------|--|
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| manualrecurring | | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. |
| dobday | | Date Of Birth - Day (2 digits) |
| dobmonth | | Date Of Birth - Month (2 digits) |
| dobyear | | Date Of Birth - Year (4 digits) |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) |
| avs_override | | Default = 0, 1 = Override AVS Settings |
| cvv2_override | | Default = 0, 1 = Override CVV2 Settings |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. |
| signature | | |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

processRecurCancel

| Field | Required | Description |
|---------|----------|--|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. |
| subid | | Required if record is processed under a SubID. |
| orderid | X | Orderid of the original transaction. |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|---------------------|---|---|--|
| canceltype | X | 0 = Immediately 1 = Next Billing 2 = Cancel immediately, and add to negative database (scrub). | |
| merchantpin | X | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| accttype | | 1 = Credit Card 2 = Checks | |
| acctdata1 | | If AcctType = "1", then credit card number. If AcctType = "2", then ACH account number. | |
| acctdata2 | | If AcctType = "1", then credit card expiration date in MM/YYYY format. If AcctType = "2", then ACH Routing number. | |
| acctname | | Name of the Account Holder. | |
| merchantordernumber | | Customer's unique alpha-numeric number | |
| ipaddress | | Customer's web browser IP address | |
| recurring | | create | A value of 1 will create the recurring billing |
| | | 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 |
| | | billingmax | Number of max re-bills (1, 2, 3, -1 = unlimited) |
| | | start | NOT USED.. Refer to "recur_nextbillingdate". |
| | | amount | Recurring amount |
| | | recur_nextbillingdate | |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|-------------------|--|--|
| shipaddress | addr1 | Consumer billing address |
| | addr2 | Second line of the consumer billing address |
| | city | Consumer city |
| | state | Consumer state or province |
| | zip | Consumer Zip code or Postal code |
| | country | Consumer country |
| phone | Consumer phone number | |
| email | Consumer email address | |
| memo | Miscellaneous information field | |
| dlnum | Consumer driver's license number | |
| ssnum | Consumer Social Security Number | |
| companyname | Your company name | |
| dynamicdescriptor | This field will be passed all the way to the Consumers Credit Card statement. This is only available for TSYS. | |
| customizedemail | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | custom1 | Merchant's Custom field |
| | custom2 | Merchant's Custom field |
| | custom3 | Merchant's Custom field |
| | custom4 | Merchant's Custom field |
| | custom5 | Merchant's Custom field |
| | custom6 | Merchant's Custom field |
| manualrecurring | Default = 0, 1 = Recurring Transaction. To be used if the recurring transactions are handled by the Merchant's system. | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |
| dobyear | Date Of Birth - Year (4 digits) | |
| currencycode | Three-letter ISO4217 (refer to Appendix E) | |
| industrycode | Industry Code One character value: (refer to Appendix F-7) | |
| avs_override | Default = 0, 1 = Override AVS Settings | |
| cvv2_override | Default = 0, 1 = Override CVV2 Settings | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--|--|
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| ticketterms | | This identifies if there is a promo rate for X amount months no interest. This is a four digit number. 0001 = Revolve Sale 0060 = 6 Months No Interest 0012 = 12 Months No Interest |
| accountlookupflag | | Default = 0, 1 = Performs the account lookup during the Auth/Sale. |
| signature | | |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |

Note: Refer to **ProcessResult** for transaction result.

EBT Transactions

**processEBTBalancelnquiry / processEBTCashBenefitBalancelnquiry /
 processEBTCashBenefitReturn / processEBTCashBenefitWithdrawal /
 processEBTCashBenefitSale / processEBTFoodStampVoucherSale /
 processEBTFoodStampReturn / processEBTFoodStampSale /
 processEBTFoodStampBalancelnquiry**

| Field | Required | Description | |
|---------------------|----------|---|---|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | |
| swipedata | X | Card swipe data (must include either track1 or track2 data) | |
| encryptedswipedata | | Encrypted Card swipe data (must include either track1 or track2 data) | |
| encryptedreadertype | | | |
| cardpresent | | | |
| cardreaderpresent | | | |
| subid | | Merchant Sub ID. If unsure whether you have one, leave blank. | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | |
| customerid | X | 32 byte Encrypted PIN pad data. Includes 16 byte PIN data followed by 6 byte key set and 10 byte PIN pad serial number. | |
| cashbackamount | | Cash back amount in the form of 0.00 (total amount transferred is amount + cash back amount) | |
| ebtapprovalcode | | EBT Approval Code | |
| voucherserialnumber | | Voucher Serial Number | |
| companyname | | Your company name | |
| billaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |
| shipaddress | | addr1 | Consumer billing address |
| | | addr2 | Second line of the consumer billing address |
| | | city | Consumer city |
| | | state | Consumer state or province |
| | | zip | Consumer Zip code or Postal code |
| | | country | Consumer country |

Online Commerce Suite™ SOAP Integration Guide

| | | | |
|------------------|--|----------------------------------|---|
| phone | | Consumer phone number | |
| email | | Consumer email address | |
| memo | | Miscellaneous information field | |
| dlnum | | Consumer driver's license number | |
| ssnum | | Consumer Social Security Number | |
| customizedemail | | emailto | E-mail address to send the consumer e-mail receipt. Default is ci_email address. |
| | | emailfrom | Return address on consumer's e-mail receipt. Default is null@atsbank.com. |
| | | emailsubject | Subject line on consumer's receipt email. Default message is Payment Receipt #xzy. |
| | | emailtext | Consumer's e-mail receipt body text. Default is a generic receipt message. |
| customizedfields | | custom1 | Merchant's Custom field |
| | | custom2 | Merchant's Custom field |
| | | custom3 | Merchant's Custom field |
| | | custom4 | Merchant's Custom field |
| | | custom5 | Merchant's Custom field |
| | | custom6 | Merchant's Custom field |
| hotellodging | | 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) |
| | | pproperty | Prestigious property indicator. Used by participants in Visa's 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: 100, 1000, or 1100 |
| | | extracharges | 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. |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|---------------------|--|---|
| autorental | rentalagreementnum | 25 alphanumeric chars. Note: Amex only uses the first 12 positions. |
| | rentalrate | Rate amount of rental. |
| | noshoworprogind | Indicates that the customer is being billed for a vehicle that was reserved but not actually rented. 1 char - Only submit when indicating no show. 1 - No show |
| | extracharges | 0 - No extra charge 1 - Gasoline 2 - Extra Mileage 3 - Late Return 4 - One Way Service Fee 5 - Parking or Moving Violation |
| | rentaldate | YY/MM/DD |
| | rentalreturndate | YY/MM/DD |
| | rentername | Name of Renter |
| | rentalreturncity | City it was returned in |
| | rentalreturnstatecountry | State/Country-ISO3 |
| | rentalreturnlocationid | 10 chars location id |
| autorepair | vin | Vehicle Identification Number |
| | odometer | Mileage read from the odometer |
| | workorder | Merchant's work order number |
| | unit | Truck/Vehicle unit number |
| | repaircode | Code use to identify the type of repair done. |
| purchasecardlevel3 | lineitems | Refer to Appendix F: |
| fleetcarddata | atpump | 0 is no 1 is yes |
| | idnumber | User ID |
| | vehicleid | Vehicle ID |
| | driverid | Driver ID |
| | odometerreading | Odometer |
| | miscnumericdata | Cust Data |
| | jobnumber | Job Number |
| | purchasedevsequencenumber | Purchase Device Sequence Number |
| | departmentnumber | Department Number |
| merchantordernumber | Customer's unique alpha-numeric number | |
| ipaddress | Customer's web browser IP address | |
| dobday | Date Of Birth - Day (2 digits) | |
| dobmonth | Date Of Birth - Month (2 digits) | |

Online Commerce Suite™ SOAP Integration Guide

| | | |
|----------------------|--|---|
| dobyear | | Date Of Birth - Year (4 digits) |
| currencycode | | Three-letter ISO4217 (refer to Appendix E) |
| industrycode | | Industry Code One character value: (refer to Appendix F-7) |
| duplicate_override | | Default = 0, 1 = Override Duplicate Transaction Settings resulting in a new transaction. |
| signature | | |
| loadbalance_override | | Default = 0, 1 = Override Subid LoadBalance Settings |
| overridepin | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult |
| contactlessflag | | Flag to indicate an ApplePay or NFC transaction (0=no, 1=yes) |

Note: Refer to **ProcessResult** for transaction result.

processEBTVoid

| Field | Required | Description | | | | | | | | | | | | |
|---------------------|-------------------------|--|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
| acctid | X | Use TEST0 for testing if you do not have an Account ID. Change to your Account ID for live transaction processing. | | | | | | | | | | | | |
| subid | | Required only if transaction was submitted under a Sub ID. | | | | | | | | | | | | |
| amount | X | Transaction dollar amount in US dollars in the form of 0.00. | | | | | | | | | | | | |
| orderid | X | Order ID of the original transaction | | | | | | | | | | | | |
| historyid | X | History ID of the original transaction | | | | | | | | | | | | |
| merchantpin | | Merchant Unique PIN. If unsure whether you have one, leave blank. | | | | | | | | | | | | |
| merchantordernumber | | Customer's unique alpha-numeric number | | | | | | | | | | | | |
| customizedfields | | <table border="1"> <tbody> <tr> <td>custom1</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom2</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom3</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom4</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom5</td> <td>Merchant's Custom field</td> </tr> <tr> <td>custom6</td> <td>Merchant's Custom field</td> </tr> </tbody> </table> | custom1 | Merchant's Custom field | custom2 | Merchant's Custom field | custom3 | Merchant's Custom field | custom4 | Merchant's Custom field | custom5 | Merchant's Custom field | custom6 | Merchant's Custom field |
| custom1 | Merchant's Custom field | | | | | | | | | | | | | |
| custom2 | Merchant's Custom field | | | | | | | | | | | | | |
| custom3 | Merchant's Custom field | | | | | | | | | | | | | |
| custom4 | Merchant's Custom field | | | | | | | | | | | | | |
| custom5 | Merchant's Custom field | | | | | | | | | | | | | |
| custom6 | Merchant's Custom field | | | | | | | | | | | | | |
| overridepin | | | | | | | | | | | | | | |
| guid | | Unique GUID used for logging purposes. If not set, one will be generated. This GUID will be returned in the ProcessResult | | | | | | | | | | | | |

Note: Refer to **ProcessResult** for transaction result.

SOAP Response Objects

ProcessResult

| Field | Description |
|----------------------|---|
| status | Declined or Approved |
| result | Colon Delimited result code |
| total | Transaction dollar amount in US dollars in the form of 0.00. |
| orderid | Order key id of the original transaction. |
| historyid | History key id of the original transaction. |
| authcode | Colon Delimited result code |
| merchantordernumber | Customer's unique alpha-numeric number |
| acctid | If Subid LoadBalancing is enabled, it will return the Acctid it was processed under. |
| subid | If Subid LoadBalancing is enabled, it will return the Subid it was processed under. |
| transdate | Date and time of the transaction. The date/time is in ISO 8601 format: CCYY-MM-DDThh:mm:ss, with a suffix of "Z". The date/time is returned in coordinated universal time (UTC). For example, Neil Armstrong set foot on the moon at 1969-07-20T21:28:00-06:00 by the clock in Houston mission control which is also known as 1969-07-21T02:28:00Z |
| paytype | The payment type used to process the transaction (ie, Master card, Visa, Discover, Amex, and Check). |
| duplicate | "0" or "1". Default of "0" will be returned. A "1" will indicate that a duplicate transaction has been detected. The result of the original transaction will be returned. |
| avsresult | AVS Result Code |
| cvv2result | CVV2 Result Code |
| batchnumber | Batch number the transaction was assigned to. |
| last4digits | Last four digits of the Credit card or ACH transaction |
| entrymethod | Indicates how a transaction was received. |
| partialapproval | Default = 0, 1 = A Partial amount was processed. |
| actioncode | Code identifying the partial approval amount. |
| balance | Balance Inquiry amount. |
| recurbillingamount | Recurring Amount |
| recurnextbillingdate | Date to Recur |
| recurbillingcycle | Recur Cycle |
| recurbillingmax | Max Number of Recurrings |
| recurcanceldate | Cancel Date of Recurring |
| recurlastattempted | Date of Last Recurring Attempted |
| recurbillingstatus | Status of Recurring |
| recurtotalaccept | Total Number of Approved recurrings processed. |
| achrcode | ACH Return Code |

Online Commerce Suite™ SOAP Integration Guide

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|-----------------------|---|---------|-------------------|--------------------|-------------------|-------------------|--------------------|------------|---------------------|--------------------|---------------------|------------|-----------------|----------------|----------------|---------------|-----------------|--------------------|---------------|------|-----------------------|---|-----------------------|--|---------------|--|
| transactiontype | Type of Transaction | | | | | | | | | | | | | | | | | | | | | | | | | |
| additionaldata | <p>XML Document containing additional data. If exist, it will contain some if not all of the below elements within the: <datavalues> </datavalues></p> <table border="1"> <tr><td>rancode</td></tr> <tr><td>merchant_dba_name</td></tr> <tr><td>merchant_dba_phone</td></tr> <tr><td>merchant_dba_addr</td></tr> <tr><td>merchant_dba_city</td></tr> <tr><td>merchant_dba_state</td></tr> <tr><td>terminalid</td></tr> <tr><td>product_description</td></tr> <tr><td>debit_trace_number</td></tr> <tr><td>systemaudittracenum</td></tr> <tr><td>merchantid</td></tr> <tr><td>sequence_number</td></tr> <tr><td>fuelmanmaxfuel</td></tr> <tr><td>fuelmanmaxmisc</td></tr> <tr><td>fuelmanmaxoil</td></tr> <tr><td>fuelmanmaxparts</td></tr> <tr><td>fuelmanmaxpurchase</td></tr> <tr><td>userprofileid</td></tr> <tr><td>guid</td></tr> <tr> <td>issuerscripttemplate1</td> <td>71 - Contains proprietary issuer data for transmission to the ICC before the second GENERATE AC command</td> </tr> <tr> <td>issuerscripttemplate2</td> <td>72 - Contains proprietary issuer data for transmission to the ICC after the second GENERATE AC command</td> </tr> <tr> <td>issueauthdata</td> <td>91 - Data sent to the ICC for online issuer authentication</td> </tr> </table> | rancode | merchant_dba_name | merchant_dba_phone | merchant_dba_addr | merchant_dba_city | merchant_dba_state | terminalid | product_description | debit_trace_number | systemaudittracenum | merchantid | sequence_number | fuelmanmaxfuel | fuelmanmaxmisc | fuelmanmaxoil | fuelmanmaxparts | fuelmanmaxpurchase | userprofileid | guid | 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 |
| rancode | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchant_dba_name | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchant_dba_phone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchant_dba_addr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchant_dba_city | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchant_dba_state | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminalid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| product_description | | | | | | | | | | | | | | | | | | | | | | | | | | |
| debit_trace_number | | | | | | | | | | | | | | | | | | | | | | | | | | |
| systemaudittracenum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| merchantid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| sequence_number | | | | | | | | | | | | | | | | | | | | | | | | | | |
| fuelmanmaxfuel | | | | | | | | | | | | | | | | | | | | | | | | | | |
| fuelmanmaxmisc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| fuelmanmaxoil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| fuelmanmaxparts | | | | | | | | | | | | | | | | | | | | | | | | | | |
| fuelmanmaxpurchase | | | | | | | | | | | | | | | | | | | | | | | | | | |
| userprofileid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| guid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

ProcessProfileResult

| Field | Description |
|-----------|--|
| status | Declined or Approved |
| result | Colon Delimited result code |
| total | Transaction dollar amount in US dollars in the form of 0.00. |
| orderid | Order key id of the original transaction. |
| historyid | History key id of the original transaction. |
| authcode | Colon Delimited result code |

Online Commerce Suite™ SOAP Integration Guide

| | | | | | | | | | | | | | | | |
|----------------------------|--|-------|-------------------|--------------------|-------------------|-------------------|--------------------|------------|---------------------|--------------------|---------------------|------------|-----------------|---------------|------|
| merchantordernumber | Customer's unique alpha-numeric number | | | | | | | | | | | | | | |
| transdate | Date and time of the transaction. The date/time is in ISO 8601 format: CCYY-MM-DDThh:mm:ss, with a suffix of "Z". The date/time is returned in coordinated universal time (UTC). For example, Neil Armstrong set foot on the moon at 1969-07-20T21:28:00-06:00 by the clock in Houston mission control which is also known as 1969-07-21T02:28:00Z | | | | | | | | | | | | | | |
| paytype | The payment type used to process the transaction (ie, Master card, Visa, Discover, Amex, and Check). | | | | | | | | | | | | | | |
| duplicate | "0" or "1". Default of "0" will be returned. A "1" will indicate that a duplicate transaction has been detected. The result of the original transaction will be returned. | | | | | | | | | | | | | | |
| userprofileid | User profile id of the transaction | | | | | | | | | | | | | | |
| last4digits | Last four digits of the Credit card or ACH transaction | | | | | | | | | | | | | | |
| acctid | If Subid LoadBalancing is enabled, it will return the Acctid it was processed under. | | | | | | | | | | | | | | |
| subid | If Subid LoadBalancing is enabled, it will return the Subid it was processed under. | | | | | | | | | | | | | | |
| avsresult | AVS Result Code | | | | | | | | | | | | | | |
| cvv2result | CVV2 Result Code | | | | | | | | | | | | | | |
| batchnumber | Batch number the transaction was assigned to. | | | | | | | | | | | | | | |
| entrymethod | Indicates how a transaction was received. | | | | | | | | | | | | | | |
| partialapproval | Default = 0, 1 = A Partial amount was processed. | | | | | | | | | | | | | | |
| actioncode | Code identifying the partial approval amount. | | | | | | | | | | | | | | |
| additionaldata | XML Document containing additional data. If exist, it will contain some if not all of the below elements within the: <datavalues> </datavalues> <table border="1" data-bbox="386 1094 699 1780"> <tr><td>rcode</td></tr> <tr><td>merchant_dba_name</td></tr> <tr><td>merchant_dba_phone</td></tr> <tr><td>merchant_dba_addr</td></tr> <tr><td>merchant_dba_city</td></tr> <tr><td>merchant_dba_state</td></tr> <tr><td>terminalid</td></tr> <tr><td>product_description</td></tr> <tr><td>debit_trace_number</td></tr> <tr><td>systemaudittracenum</td></tr> <tr><td>merchantid</td></tr> <tr><td>sequence_number</td></tr> <tr><td>userprofileid</td></tr> <tr><td>guid</td></tr> </table> | rcode | merchant_dba_name | merchant_dba_phone | merchant_dba_addr | merchant_dba_city | merchant_dba_state | terminalid | product_description | debit_trace_number | systemaudittracenum | merchantid | sequence_number | userprofileid | guid |
| rcode | | | | | | | | | | | | | | | |
| merchant_dba_name | | | | | | | | | | | | | | | |
| merchant_dba_phone | | | | | | | | | | | | | | | |
| merchant_dba_addr | | | | | | | | | | | | | | | |
| merchant_dba_city | | | | | | | | | | | | | | | |
| merchant_dba_state | | | | | | | | | | | | | | | |
| terminalid | | | | | | | | | | | | | | | |
| product_description | | | | | | | | | | | | | | | |
| debit_trace_number | | | | | | | | | | | | | | | |
| systemaudittracenum | | | | | | | | | | | | | | | |
| merchantid | | | | | | | | | | | | | | | |
| sequence_number | | | | | | | | | | | | | | | |
| userprofileid | | | | | | | | | | | | | | | |
| guid | | | | | | | | | | | | | | | |
| enum_decrypt | Deprecated. | | | | | | | | | | | | | | |
| expdate_decrypt | Deprecated. | | | | | | | | | | | | | | |
| billaddr1 | Billing Address | | | | | | | | | | | | | | |

| | |
|-----------|----------------------------|
| billaddr2 | Billing Address (extended) |
| billcity | Billing City |
| billstate | Billing State |

ProcessAccountLookupResult

| Field | Description | | | | | | | | |
|---------------------|--|---------|-------------------|--------------------|-------------------|-------------------|--------------------|------------|---------------------|
| status | Declined or Approved | | | | | | | | |
| result | Colon Delimited result code | | | | | | | | |
| orderid | Order key id of the original transaction. | | | | | | | | |
| historyid | History key id of the original transaction. | | | | | | | | |
| authcode | Colon Delimited result code | | | | | | | | |
| paytype | The payment type used to process the transaction (ie, Master card, Visa, Discover, Amex, and Check). | | | | | | | | |
| last4digits | Last four digits of the Credit card or ACH transaction | | | | | | | | |
| entrymethod | Indicates how a transaction was received. | | | | | | | | |
| transactiontype | Type of Transaction | | | | | | | | |
| firstname | Customer's First Name | | | | | | | | |
| lastname | Customer's Last Name | | | | | | | | |
| phone | Customer's phone number | | | | | | | | |
| addr1 | Customer's address line 1 | | | | | | | | |
| addr2 | Customer's address line 2 | | | | | | | | |
| city | Customer's City | | | | | | | | |
| state | Customer's State | | | | | | | | |
| zipcode | Customer's zipcode / postal code | | | | | | | | |
| country | Customer's Country | | | | | | | | |
| additionaldata | <p>XML Document containing additional data. If exist, it will contain some if not all of the below elements within the:</p> <pre><datavalues> </datavalues></pre> <table border="1" data-bbox="386 1495 699 1887"> <tr><td>rancode</td></tr> <tr><td>merchant_dba_name</td></tr> <tr><td>merchant_dba_phone</td></tr> <tr><td>merchant_dba_addr</td></tr> <tr><td>merchant_dba_city</td></tr> <tr><td>merchant_dba_state</td></tr> <tr><td>terminalid</td></tr> <tr><td>product_description</td></tr> </table> | rancode | merchant_dba_name | merchant_dba_phone | merchant_dba_addr | merchant_dba_city | merchant_dba_state | terminalid | product_description |
| rancode | | | | | | | | | |
| merchant_dba_name | | | | | | | | | |
| merchant_dba_phone | | | | | | | | | |
| merchant_dba_addr | | | | | | | | | |
| merchant_dba_city | | | | | | | | | |
| merchant_dba_state | | | | | | | | | |
| terminalid | | | | | | | | | |
| product_description | | | | | | | | | |

Online Commerce Suite™ SOAP Integration Guide

| |
|-------------------------|
| debit_trace_number |
| systemaudittracenumbers |
| merchantid |
| sequence_number |
| userprofileid |
| guid |

Security

SOAP over HTTPS (Required)

SOAP transactions typically are transmitted in clear text, meaning that anyone with access to the line can gather data about the communication. SSL encrypting of the transaction ensures that data is kept confidential and secure.

Developer tasks:

1. Download the WSDL.
2. Use the available toolkits available for your language to generate the required files from the WSDL. Set all the required fields and establish the HTTPS connection to the Merchant Partners transaction web services host.
3. Process the response and store/present the results accordingly.

Merchant PIN (Recommended)

Unique merchant PIN (account password) is issued to the merchant, which is then included in all transactions submitted via SOAP methods using merchant pin element.

Sample SOAP Request/Response

Sample Client SOAP Request

```
<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:processCCSale
      soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:ns1="urn:MPTransProcess">
      <ccinfohref="#id0" />
    </ns1:processCCSale>
    <multiRef id="id0" soapenc:root="0"
      soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:ns2="urn:MPTransProcess"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xsi:type="ns2:CreditCardInfo">
      <acctid xsi:type="xsd:string">TEST0</acctid>
      <accountkey xsi:nil="true" xsi:type="xsd:string" />
      <subid xsi:nil="true" xsi:type="xsd:string" />
      <ccname xsi:type="xsd:string">JohnDoe Soap</ccname>
      <swipedata xsi:nil="true" xsi:type="xsd:string" />
      <cardpresent href="#id1" />
      <cardreaderpresent href="#id2" />
      <voiceauth xsi:nil="true" xsi:type="xsd:string" />
      <track1 xsi:nil="true" xsi:type="xsd:string" />
      <track2 xsi:nil="true" xsi:type="xsd:string" />
      <ccnum xsi:type="xsd:string">5454545454545454</ccnum>
      <cctype xsi:type="xsd:string">Visa</cctype>
      <expmon href="#id3" />
      <expyear href="#id4" />
      <cvv2 href="#id5" />
      <amount href="#id6" />
      <merchantordernumber xsi:nil="true" xsi:type="xsd:string" />
      <companyname xsi:nil="true" xsi:type="xsd:string" />
      <billaddress href="#id7" />
      <shipaddress href="#id7" />
      <email xsi:nil="true" xsi:type="xsd:string" />
      <dlnum xsi:nil="true" xsi:type="xsd:string" />
      <ssnum xsi:nil="true" xsi:type="xsd:string" />
      <phone xsi:nil="true" xsi:type="xsd:string" />
      <memo xsi:nil="true" xsi:type="xsd:string" />
      <customizedemail href="#id8" />
      <recurring href="#id9" />
      <ipaddress xsi:nil="true" xsi:type="xsd:string" />
    </multiRef>
    <multiRef id="id9" soapenc:root="0"
      soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:ns3="urn:MPTransProcess"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xsi:type="ns3:Recur">
      <create href="#id10" />
      <billingcycle href="#id11" />
      <billingmax href="#id12" />
      <start href="#id13" />
      <amount href="#id14" />
    </multiRef>
    <multiRef id="id8" soapenc:root="0"
      soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:ns4="urn:MPTransProcess"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
```

Online Commerce Suite™ SOAP Integration Guide

```
    xsi:type="ns4:customEmail">
    <mailto xsi:type="xsd:string">vpat@comcast.net</mailto>
    <emailfrom xsi:type="xsd:string">null@atsbank.com</emailfrom>
    <emailsubject xsi:type="xsd:string">Transaction Service Test</emailsubject>
    <emailtext xsi:type="xsd:string">This is just a test</emailtext>
</multiRef>
<multiRef id="id5" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
<multiRef id="id3" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">5</multiRef>
<multiRef id="id1" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">1</multiRef>
<multiRef id="id6" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:float">2.89</multiRef>
<multiRef id="id7" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:ns5="urn:MPTransProcess"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="ns5:address">
  <addr1 xsi:type="xsd:string">1110 Main Ave</addr1>
  <addr2 xsi:nil="true" xsi:type="xsd:string" />
  <city xsi:type="xsd:string">Los Angeles</city>
  <state xsi:type="xsd:string">California</state>
  <zip xsi:type="xsd:string">90266</zip>
  <country xsi:type="xsd:string">US</country>
</multiRef>
<multiRef id="id2" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
<multiRef id="id4" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">6</multiRef>
<multiRef id="id10" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
<multiRef id="id12" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
<multiRef id="id13" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
<multiRef id="id14" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:float">0.0</multiRef>
<multiRef id="id11" soapenc:root="0"
  soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xsi:type="xsd:int">0</multiRef>
</soapenv:Body>
</soapenv:Envelope>
```

Sample Client SOAP Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
<soapenv:Body>
<ns1:processCCSaleResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:ns1="http://MPTr
<processCCSaleReturn href="#id0"/>
</ns1:processCCSaleResponse>
<multiRef id="id0" soapenc:root="0" soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:ns2="ur
<status xsi:type="xsd:string">Approved</status>
<result xsi:type="xsd:string">AVSSALE:TEST::184913762:N::U</result>
<historyid xsi:type="xsd:string">184913762</historyid>
<orderid xsi:type="xsd:string">137037436</orderid>
<refcode xsi:type="xsd:string">VITL</refcode>
<authcode xsi:type="xsd:string">AVSSALE:TEST::184913762:N::U</authcode>
<total xsi:type="xsd:float">1.01</total>
<merchantordernumber xsi:type="xsd:string"/>
<acctid xsi:type="xsd:string"/>
<subid xsi:type="xsd:string"/>
<transdate xsi:type="xsd:dateTime">2011-04-11T17:46:40.000Z</transdate>
<paytype xsi:type="xsd:string">Mastercard</paytype>
<duplicate xsi:type="xsd:int">0</duplicate>
<avsresult xsi:type="xsd:string">N</avsresult>
<cvv2result xsi:type="xsd:string">U</cvv2result>
<batchnumber xsi:type="xsd:string"/>
<last4digits xsi:type="xsd:string">5454</last4digits>
<entrymethod xsi:type="xsd:string">KEYED</entrymethod>
<partialapproval xsi:type="xsd:int">0</partialapproval>
<actioncode xsi:type="xsd:string"/>
<balance xsi:type="xsd:string"/>
<recurbillingamount xsi:type="xsd:string"/>
<recurnextbillingdate xsi:type="xsd:string"/>
<recurbillingcycle xsi:type="xsd:string"/>
<recurbillingmax xsi:type="xsd:string"/>
<recurcanceldate xsi:type="xsd:string"/>
<recurlastattempted xsi:type="xsd:string"/>
<recurbillingstatus xsi:type="xsd:string"/>
<recurtotalaccept xsi:type="xsd:string"/>
<achrcode xsi:nil="true" xsi:type="xsd:string"/>
<transactiontype xsi:nil="true" xsi:type="xsd:string"/>
<additionaldata xsi:type="xsd:string"><datavalues/></additionaldata>
</multiRef>
</soapenv:Body>
</soapenv:Envelope>

```


Sample Client Code

Example 1: Java

Use Apache Axis to generate the necessary objects. Use WSDL2Java to generate the client service bindings (a number of soap client classes):

```
set CLASSPATH=%CLASSPATH%;C:\axis-1_2RC2\lib\axis.jar;C:\axis-1_2RC2\lib\jaxrpc.jar;
C:\axis-1_2RC2\lib\commons-logging.jar;C:\axis-1_2RC2\lib\commons-discovery.jar;
C:\axis-1_2RC2\lib\saaj.jar;C:\axis-1_2RC2\lib\wsdl4j.jar;

java org.apache.axis.wsdl.WSDL2Java -t -s . \
-N https://trans.merchantpartners.com/MPWeb/services/TransactionService \
MPTransProcess https://trans.merchantpartners.com/MPWeb/services/TransactionService?wsdl
```

1. The -t option causes the emitter to generate a *Test Case.java file that hooks into the test harness. This file is operational without any additional changes. Copy the *Test Case.java file into the same directory as your wsdl file. (Ideally only the Java files that are changed need to be in your directory.) So this file is not needed, but please makes sure to modify your <wsdl2java ...> clause (described below) to emit a test case.
2. The -s option causes the emitter to generate a *SOAP BindingImpl.java file. The Java file contains empty methods for the service. You probably want to fill them in with your own logic. Copy the *SOAP BindingImpl.java file into the same directory as your wsdl file. (If no changes are needed in the Java file, you don't need to save it. But you will need to make sure that your <wsdl2java ...> clause generates a skeleton).
3. Remove all of the Java files that don't require modification. So you should have three files in your directory (wsdl file, *Test Case.java, and *SOAP BindingImpl.java).

Sample Client Servlet

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.util.*;
import MPTransProcess.CreditCardInfo;
import MPTransProcess.ProcessResult;
import MPTransProcess.CustomEmail;
import MPTransProcess.Recur;
import java.net.URL;
import MPTransProcess.Address;
import java.security.Security;

public class testAxisClient extends HttpServlet {

    public testAxisClient() {
        try {
            jbInit();
        } catch (Exception ex) {
            ex.printStackTrace();
        }
    }

    private static final String CONTENT_TYPE = "text/html";

    // Initialize global variables
    public void init() throws ServletException {
    }

    // Process the HTTP Get request
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType(CONTENT_TYPE);
        PrintWriter out = response.getWriter();
        out.println("<html>");
    }
}
```

Online Commerce Suite™ SOAP Integration Guide

```
out.println("<head><title>TestTransactionService</title></head>");
out.println("<body bgcolor=\"#ffffff\">");

MPTransProcess.TransactionSOAPBindingStub binding
try {
    binding = (MPTransProcess.TransactionSOAPBindingStub)
        new MPTransProcess.TransactionServiceLocator().getMPTransactionService();
}
catch (javax.xml.rpc.ServiceException jre) {
    if (jre.getLinkedCause() != null) {
        jre.getLinkedCause().printStackTrace();
    }
    throw new junit.framework.AssertionFailedError("JAX-RPC ServiceException caught: " + jre);
}

// Test operation
MPTransProcess.ProcessResult value = null;
CreditCardInfo ci = new CreditCardInfo();
ProcessResult pr = new ProcessResult();
ci.setAcctid("TEST0");
ci.setCcname("JohnDoe Soap");
ci.setCcnnum("5454545454545454");
ci.setCctype("Visa");
ci.setExpmon(05);
ci.setExpyear(06);
ci.setAmount(2.89f);
// Optional elements
Address addrbill = new Address();
addrbill.setAddr1("1110 Main Ave");
addrbill.setCity("Los Angeles");
addrbill.setCountry("US");
addrbill.setState("California");
addrbill.setZip("90266");
ci.setBilladdress(addrbill);
ci.setShipaddress(addrbill);
CustomEmail cmail = new CustomEmail();
cmail.setEmailto("null@atsbank.com");
cmail.setEmailfrom("null@atsbank.com");
cmail.setEmailtext("This is just a test");
cmail.setEmailsubject("Transaction Service Test");
ci.setCustomizedemail(cmail);
Recur rec = new Recur();
rec.setCreate(0);
ci.setRecurring(rec);
value = binding.processCCSale(ci);
out.println("Transkeyid:"+value.getHistoryid());
out.println("<BR>");
out.println("Orderkeyid:"+value.getOrderid());
out.println("<BR>");
out.println("Result:"+value.getResult());
out.println("<BR>");
out.println("Amount:"+value.getTotal());
out.println("<BR>");
out.println("Status (1=good, 0=system Error):"+value.getStatus());
out.println("<BR>");
out.println("</body></html>");
}
// Process the HTTP Post request
public void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doGet(request, response);
}
//Clean up resources
public void destroy() {
}
}
```

Example 2: C#

Below example was tested on Visual Studio 2005.

Create a new Project. Once the project has been created, you can load the WSDL by "right mouse" click on "Web References", "Add Web Reference", "Browse web services on local machine", then change the "Add Reference Name" to anything you want (below example uses "Merchant Partners" and click on "Add Reference").

Sample C# Client

```
using System;
using ProcessSoapTrans.MerchantPartners;

TransactionSOAPBindingImplService bindings = new TransactionSOAPBindingImplService();
CreditCardInfo ccinfo = new CreditCardInfo();
ProcessResult pResult = new ProcessResult();

ccinfo.acctid = "TEST0";
ccinfo.ccname = "Tony Test";
ccinfo.ccnum = "5454545454545454";
ccinfo.amount = 3.00f;
ccinfo.expmon = 03;
ccinfo.expyear = 2010;

Console.WriteLine("Processing...");
pResult = bindings.processCCSale(ccinfo);
Console.WriteLine("status: " + pResult.status);
Console.WriteLine("result: " + pResult.result);
```

Example 3: PHP

Below example uses NuSOAP.

Sample PHP Client

```
<?php
require_once('nusoap-0.9.5/lib/nusoap.php');

$wsdl = "TransactionServices.xml";

$client = new nusoap_client($wsdl, 'wsdl');

$params = array('acctid' => 'test0',
               'subid' => '',
               'ccname' => 'tony test',
               'ccnum' => '5454545454545454',
               'amount' => 1.01,
               'expmon' => 07,
               'expyear' => '2012');

$result = $client->call('processCCSale', array('ccinfo'=>$params));
// $err = $client->getError();

print_r($result);

?>
```

Appendix A: Transaction Service WSDL

Refer to: Transaction Service.xml

Appendix B: 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.

Example:

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

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

| 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_cid/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. |

Credit Card Decline Response Format

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

Example:

DECLINED:1234567890:TEXT RESPONSE

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

| Field | Description | Value | | | | | | | | |
|--------------------|--|--|---|--|---|----------------------------------|---|--|---|--|
| Transaction Result | Result of the transaction | DECLINED | | | | | | | | |
| Decline Code | 10 digit decline code. | First Digit: <table border="1" style="margin-left: 20px;"> <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> </table> Digits 2-10: Internal decline number | 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 |
| 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 | | | | | | | | | |
| Text Response | Text message indicating the reason for the decline. | Varies | | | | | | | | |

Appendix C: 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 match, 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 digits 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 issuer's center. However, the first five numerical characters contained in the address do not match. |
| Foreign Codes: | |
| 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 D: CVV2/CVC2 Response Codes

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

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

Appendix E: 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 | |

Online Commerce Suite™ SOAP Integration Guide

| 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 | |

Online Commerce Suite™ SOAP Integration Guide

| 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 F: 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 F-1) | x | x | x |
| 513 | Quantity/Num Units; 9(3)v9999 | x | x | x |
| 514 | Service Code/Level (See Appendix F-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 F-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 F-1: Product Codes

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

Online Commerce Suite™ SOAP Integration Guide

| | |
|-----|---|
| 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%) |

Online Commerce Suite™ SOAP Integration Guide

| | |
|-----------|---------------------------------------|
| 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 |

Online Commerce Suite™ SOAP Integration Guide

| | |
|-----------|------------------------------|
| 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 |

Online Commerce Suite™ SOAP Integration Guide

| | |
|-----------|--|
| 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 F-3: Service Codes

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

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

Appendix F-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 F-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 F-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-7: Industry Codes

| Value | Description |
|-------|-------------|
| E | E-Commerce |
| D | MO/TO |
| R | Retail |
| F | Restaurant |
| A | Auto Rental |
| H | Hotel |
| O | Oil |