

SAGE PAYMENT SOLUTIONS

GATEWAY

**XMLRecurringBankcardWebServices**

**05/2013**

sage

## Overview - XML Web Services

The Gateway is an ecommerce platform that provides a wide variety of ecommerce functionality. At a systems level, the gateway offers bankcard and virtual check processing.

In the area of bankcard processing, the Gateway supports ecommerce and retail certifications supporting AVS, CVV/CVV2, etc. In addition, several advanced options for managing fraud/risk are available for AVS and CVV.

For virtual check processing, the Gateway supports Prearranged Payment and Deposits (PPD), Cash Concentration or Disbursement (CCD), Accounts Receivable Collection (ARC), Telephone Initiated Entries (TEL), Returned/Dishonored Check (RCK), and Internet (WEB) transaction classes as defined by the National Automated Clearing House Association (NACHA).

For presentation, the primary interface for the Gateway is the Virtual Terminal. The Virtual Terminal provides a wide variety of functionality for the merchant including:

- Manual Bankcard Processing
- Manual Virtual Check Processing
- Recurring Transactions
- Batch Management
- Integrated Shopping Cart Configuration
- Reporting
- Advanced Configuration and User Management

Essentially, transactions are processed from a wide variety of sources, including API, XML Web Services, manual transactions from within the Virtual Terminal, recurring transactions scheduled within the Virtual Terminal, and consumer initiated transactions via the Virtual Terminal Shopping Cart.

All of these transactions are provided in the merchant's current batch and may be reviewed, batched, etc. via the Virtual Terminal.

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## Integration with XML Web Services

Since its initial release in 1998, the Gateway has offered an HTTPS public specification for interacting with the Gateway. This specification for both authorizations and response messages has gone through several revisions since inception.

In Fall 2002, XML Web Services were released which simplify the integration process for a variety of Gateway functionality. Specifically, XML Web Services address the following key areas:

- Transaction Processing for Bankcard and Virtual Check
- Batch Management for Bankcard and Virtual Check
- Reporting

The XML Web Services are accessed via a Secure Sockets Layer (SSL) interface and require a unique M\_id (Gateway Merchant ID) and M\_key (Gateway Merchant Key) pair for accessing the services.



## Recurring

The design and purpose of the Recurring web service is to provide merchants the ability to manage recurring schedules, customers, payers, and transactions available within the Virtual Terminal User Interface.

The formal WSDL service description for the Recurring Service is located at:

[https://gateway.sagepayments.net/web\\_services/wsvtextensions/recurring.asmx?WSDL](https://gateway.sagepayments.net/web_services/wsvtextensions/recurring.asmx?WSDL)

Recurring Related Definitions:

- CUSTOMER – A recurring a recurring customer is an individual or business that will be making a recurring payment. A recurring customer can have one or more recurring payers that are used for processing the actual payments.
- PAYER – A recurring payer is an individual that will be making a recurring payment on behalf of a recurring customer. A recurring customer is required before creating a recurring payer.
- SCHEDULE – A recurring schedule is either a monthly or daily interval used to control when recurring transactions are processed.
- TRANSACTION – A recurring transaction is a scheduled payment using a recurring schedule, recurring customer, and recurring payer.
- GROUP – A recurring group is used to group recurring transactions when using reporting.

Recurring Related Methods:

- UPDATE\_RECURRING\_CUSTOMER - Updates recurring customer information.
  - CREATE\_RECURRING\_MONTHLY\_SCHEDULE - Creates a new recurring monthly schedule.
  - UPDATE\_RECURRING\_BANKCARD\_PAYER – Updates recurring payer information.
  - PAYER\_BANKCARD\_SALE - Performs a new FORCE transaction.
  - VIEW\_RECURRING\_CUSTOMER\_LISTING - Provides a listing of all recurring customers.
  - VIEW\_RECURRING\_TRANSACTION\_DETAIL - Provides recurring transaction
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detail.

- GET\_RECURRING\_EXPIRATION\_REPORT - Provides a listing of all active bankcard recurring payers with credit card accounts that are about to expire.
  - CREATE\_RECURRING\_BANKCARD\_PAYER\_AND\_TRANSACTION - Creates a bankcard recurring payer and recurring transaction.
  - VIEW\_RECURRING\_BANKCARD\_PROCESSED - Provides a listing of bankcard recurring transactions processed within a date range.
  - VIEW\_RECURRING\_VIRTUALCHECK\_PROCESSED - provides a listing of virtual check recurring transactions processed within a date range.
  - VIEW\_RECURRING\_PAYER\_LISTING - Provides a listing of all recurring payers.
  - CREATE\_RECURRING\_DAILY\_SCHEDULE - Creates a new recurring daily schedule.
  - CREATE\_RECURRING\_CUSTOMER - Creates a new recurring customer.
  - PAYER\_BANKCARD\_AUTHONLY - performs a bankcard authorization only transaction using recurring payer information.
  - CREATE\_RECURRING\_VIRTUALCHECK\_PAYER - creates a new virtual check recurring payer, a bank routing and account number is required.
  - VIEW\_BANKCARD\_PROCESSED - Provides a listing of bankcard transactions within a date range and having a specific order number.
  - VIEW\_RECURRING\_SCHEDULE\_LISTING – Provides a listing of recurring schedules.
  - SEARCH\_RECURRING\_DAILY\_SCHEDULE - Provides a listing of recurring daily schedules with a specific daily interval and non-business day values.
  - VIEW\_RECURRING\_VIRTUALCHECK\_PROCESSED - provides a listing of virtual check recurring transactions processed within a date range.
  - CREATE\_RECURRING\_TRANSACTION - Creates a new recurring transaction based off a recurring schedule, customer, and payer.
  - SET\_RECURRING\_START\_DATE - Updates the start date for ALL recurring
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transactions that are based on a specific payer. The start date must reflect the Schedule (i.e., If the Schedule is set to run on the 1<sup>st</sup> of every month, the Start Date will need to start on the 1st of the month set for the payer).

- VIEW\_RECURRING\_TRANSACTION\_LISTING - Provides a listing of recurring transactions.
- VIEW\_RECURRING\_GROUP\_LISTING - Provides a listing of recurring groups.
- UPDATE\_RECURRING\_TRANSACTION – Updates recurring transaction information.
- SEARCH\_RECURRING\_MONTHLY\_SCHEDULE - Provides a listing of recurring monthly schedules with a specific monthly interval, day of month, non-business day, and start offset values.
- VIEW\_RECURRING\_CUSTOMER\_DETAIL – Provides recurring customer information.
- CREATE\_RECURRING\_GROUP - Creates a new recurring group.
- CREATE\_RECURRING\_BANKCARD\_PAYER – Creates a new virtual check recurring payer, a credit card number and expiration date is required.
- DELETE\_VT\_PAYER - Deletes a payer record provided the payer has no existing bankcard or EFT history.

For a list of RECURRING operations go to:

[https://gateway.sagepayments.net/web\\_services/wsvtextensions/recurring.asmx](https://gateway.sagepayments.net/web_services/wsvtextensions/recurring.asmx)

For testing go to:

[https://gateway.sagepayments.net/web\\_services/vterm\\_extensions/recurring.asmx](https://gateway.sagepayments.net/web_services/vterm_extensions/recurring.asmx)

All Recurring Methods will return an XML document. The document varies from method to method depending on the nature of the information being requested. Developers should use the test harness available with the service description to examine the XML schema for the various methods.

- [CREATE RECURRING GROUP](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
GROUP_DESCRIPTION	Required	Group Description/Title *You need at least one Group in order to create Schedules.	A/N:	Monthly Gym Membership

- [CREATE RECURRING MONTHLY SCHEDULE](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 Digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
SCHEDULE_DESCRIPTION	Required	Schedule description or title	A/N:	Monthly on the 1 <sup>st</sup>
MONTHLY_INTERVAL	Required	This field contains a numerical value indicating the interval for which the recurring schedule is run for the transaction being processed.	Numeric: 2 Digit limit	1=Monthly, 6=Every 6 months, 12=Yearly, etc...
DAY_OF_MONTH	Required	This field is used to set the day of the month the recurring schedule will begin.	Numeric: 2 Digit limit	1=First of the month, 15=Fifteenth of the month, 31=Last day of the month, etc...
NON_BUSINESS_DAYS	Required	This field contains a numerical value indicating whether the recurring schedule should be before, on, or after non business days for the transaction being processed.	Numeric: 1 Digit	<ul style="list-style-type: none"> <li>• 0=After</li> <li>• 1=Before</li> <li>• 2=That Day</li> </ul>
START_OFFSET	Required	Allows you to set the recurring starting month	Numeric: 2 Digits	"02" will run the recurring 2 months from the current date.



- [CREATE RECURRING DAILY SCHEDULE](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 Digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
SCHEDULE_DESCRIPTION	Required	Schedule description or title	A/N:	
DAILY_INTERVAL	Required	This field contains a numerical value indicating the interval for which the recurring schedule is run for the transaction being processed.	Numeric: 3 Digit limit	1=Everyday, 7=Weekly, 14=Bi-Weekly, etc...
START_DATE	Optional	This field contains the start date for the recurring transaction being added to the system. This field is optional and if omitted the current date will be used as the bases for calculating the start date.	Numeric: 6 Digits	MM/DD/YY, MM-DD-YY, or MMDDYY
NON_BUSINESS_DAYS	Required	This field contains a numerical value indicating whether the recurring schedule should be before, on, or after non business days for the transaction being processed.	Numeric: 1 Digit	<ul style="list-style-type: none"> <li>• 0=After</li> <li>• 1=Before</li> <li>• 2=That Day</li> </ul>

- [CREATE\\_RECURRING\\_CUSTOMER](#) (For testing click [HERE](#)) **Please Note:** *This operation is required in order to create a RECURRING\_PAYER.*
- [UPDATE\\_RECURRING\\_CUSTOMER](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
CUSTOMER_TYPE	Required	This field contains a numerical value indicating whether the customer should be added to the recurring system.	Numeric: 1 Digit limit	<ul style="list-style-type: none"> <li>• 0=No</li> <li>• 1=Yes</li> </ul>
FIRST_NAME	Optional	This field contains the customer's first name for the transaction being processed.	Alpha: 50 character limit	John
LAST_NAME	Optional	This field contains the customer's last name for the transaction being processed.	Alpha: 50 character limit	Doe
ADDRESS	Optional	This field contains the customer's address for the transaction being processed. The Address is used in address verification requested transactions.	A/N: 50 Character limit	123 Main St.
CITY	Optional	This field contains the customer's city for the transaction being processed.	A/N: 50 Character limit	Juneau
STATE	Optional	This field contains the customer's state for the transaction being processed and can be either an abbreviation or the full name	Alpha: 50 character limit	AK
ZIP	Optional	This field contains the customer's zip/postal	Domestic: 5 or 9 Digit	12345

		code for the transaction being processed. The zip/postal Code is used in address verification requested transactions.	International: 50 A/N Limit minimum 3 characters	
COUNTRY	Optional	This field contains the customer's billing country code or description for the transaction being processed, if not provided US is assumed	A/N: 50 Character limit	United States, US, 840
EMAIL_ADDRESS	Optional	This field contains the customer's email address for the transaction being processed. If the email address is provided and the merchant has the email setting enabled inside the virtual terminal the customer will receive an email order confirmation with transaction details.	A/N: 50 Character limit with an @ symbol	test@test.com
SHIPPING_RECIPIENT	Optional	This field contains the recipient's name for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	John Doe
SHIPPING_ADDRESS	Optional	This field contains the recipient's address for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	123 Main St.
SHIPPING_CITY	Optional	This field contains the recipient's city for the transaction being	A/N: 50 Character limit	Juneau



		processed. Recipient data is used for transaction records where a shipping address was supplied.		
SHIPPING_STATE	Optional	This field contains the recipient's state for the transaction being processed and can be either an abbreviation or the full name. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	AK
SHIPPING_ZIP	Optional	This field contains the recipient's zip code for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	Domestic: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
SHIPPING_COUNTRY	Optional	This field contains the recipient's country code or description for the transaction being processed, if not provided US is assumed.	A/N: 50 Character limit	United States, US, 840
HOLD	Required	Leave that at "0". We don't use this variable anymore.	Numeric: 1 Digit	0
HOLD_MESSAGE	Optional	Leave it blank. We do not use this variable anymore.	Numeric: 1 Digit	0
REFERENCE	Optional	This field contains a third part reference for the recurring transaction. If a reference is not provided the system will generate a unique one and assign it to the recurring record.	A/N: 1-50 Character limit	12345



- [CREATE RECURRING BANKCARD PAYER AND TRANSACTION](#) (For testing click [HERE](#))
- [CREATE RECURRING VIRTUALCHECK PAYER AND TRANSACTION](#) (For testing click [HERE](#))

\*For Virtual Check only

This operation will create a Payer and allow you to assign the Group and Schedule for the recurring transaction. Below are the additional Required/Optional fields.

**Please note:** A Recurring ID will be part of the XML response. The Recurring ID is a required value in order to use the UPDATE\_RECURRING\_TRANSACTION operation.

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
ACTIVE	Required	This field contains a numerical value indicating whether the transaction being processed should be added to the recurring system.	Numeric: 2 digit limit	<ul style="list-style-type: none"> <li>• 01=Active</li> <li>• 02=Inactive</li> </ul>
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	Use <a href="#">CREATE_RECURRING_CUSTOMER</a> to generate a Customer ID.  *The Customer ID is only needed to create a Recurring Record.
FIRST_NAME	Optional	This field contains the customer's first name for the transaction being processed.	Alpha: 50 character limit	John
LAST_NAME	Optional	This field contains the customer's last name for the transaction being processed.	Alpha: 50 character limit	Doe
ADDRESS	Optional	This field contains the customer's address for the transaction being processed. The Address is used in address verification	A/N: 50 Character limit	123 Main St.

		requested transactions.		
CITY	Optional	This field contains the customer's city for the transaction being processed.	A/N: 50 Character limit	Juneau
STATE	Optional	This field contains the customer's state for the transaction being processed and can be either an abbreviation or the full name	Alpha: 50 character limit	AK
ZIP	Optional	This field contains the customer's zip/postal code for the transaction being processed. The zip/postal Code is used in address verification requested transactions.	Domestic: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
COUNTRY	Optional	This field contains the customer's billing country code or description for the transaction being processed, if not provided US is assumed	A/N: 50 Character limit	United States, US, 840
EMAIL_ADDRESS	Optional	This field contains the customer's email address for the transaction being processed. If the email address is provided and the merchant has the email setting enabled inside the virtual terminal the customer will receive an email order confirmation with transaction details.	A/N: 50 Character limit with an @ symbol	test@test.com
SHIPPING_RECIPIENT	Optional	This field contains the recipient's name for the transaction being processed. Recipient data is used for	A/N: 50 Character limit	John Doe



		transaction records where a shipping address was supplied.		
SHIPPING_ADDRESS	Optional	This field contains the recipient's address for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	123 Main St.
SHIPPING_CITY	Optional	This field contains the recipient's city for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	Juneau
SHIPPING_STATE	Optional	This field contains the recipient's state for the transaction being processed and can be either an abbreviation or the full name. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	AK
SHIPPING_ZIP	Optional	This field contains the recipient's zip code for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	Domestic Numeric: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
SHIPPING_COUNTRY	Optional	This field contains the recipient's country code or description for the transaction being processed, if not provided US is assumed.	A/N: 50 Character limit	United States, US, 840
CARDNUMBER	Required	This field contains the card number for the transaction being processed. The card	Numeric: 13-16 Digit limit	4111111111111111

		number should contain numbers only with no spaces or dashes.		
CARD_EXP_MONTH	Required	This field contains the 2 digit card expiration month for the recurring transaction.	Numeric: 2 digits	MM
CARD_EXP_YEAR	Required	This field contains the 2 digit card expiration year for the recurring transaction.	Numeric: 2 digits	YY
<b>Virtual Check (ACH) only</b>				
RTE	Required	This field contains the Check Writer's Routing/Transit Number (9 Digit). The Routing number should contain numbers only with no spaces or dashes.	Numeric: 9 Digits	056008849
ACCOUNT	Required	This field contains the Check Writer's Bank Account Number. The Account number should contain numbers only with no spaces or dashes.	Numeric: 17 Digit limit  <i>*There is no well-defined standard for the length of US bank account numbers. The NACHA standard file format defines the account number as up to 17 digits.</i>	12345678901234
ACCOUNT_TYPE	Required	This field identifies which the Check Writer's bank account type.	Alpha: 3 Letters	Bank Account Type: <ul style="list-style-type: none"> <li>• DDA=Checking Account</li> <li>• SAV=Savings Account</li> </ul>
GROUP_ID	Required	This field contains a numerical value indicating the recurring group for which the recurring transaction will be associated with. There must be at least one recurring group setup before a recurring transaction can be added to the system.	Numeric: 5 Digit limit	Groups are created in the Virtual Terminal under Recurring > Groups.



SCHEDULE_ID	Required	This field contains a numerical value indicating the recurring schedule for which the recurring transaction will be associated with.	Numeric: 5 Digit limit	Schedules are created in the Virtual Terminal under Recurring > Schedules.
AMOUNT	Required	This field contains the amount for the recurring transaction being processed. The amount should contain numbers only	Numeric: 6 Character limit (not including the .00)	1328.00; 1328.0; 1328
T_CODE	Required	This field contains the transaction code for the transaction being processed. The transaction code should contain numbers only.	Numeric: 2 Digits	<ul style="list-style-type: none"> <li>• 01=Sale</li> <li>• 02=Auth Only</li> </ul>
TIMES_TO_PROCESS	Required	<p>This field contains a numerical value indicating the number of times the recurring schedule should be run for the transaction being processed.</p> <p>*This <u>only</u> applies when the Recurring Process Indefinitely field is 0.</p>	Numeric: 4 Digit limit	6=The recurring customer will become Inactive after the sixth recurring run.
INDEFINITE	Required	This field contains a numerical value indicating whether the recurring schedule should be process indefinitely for the transaction being processed.	Numeric: 1 Digit limit	<ul style="list-style-type: none"> <li>• 0=Not Indefinite</li> <li>• 1=Yes Indefinite.</li> </ul>
REFERENCE	Optional	This field contains a third part reference for the recurring transaction. If a reference is not provided the system will generate a unique	A/N: 1-50 Character limit	12345

		one and assign it to the recurring record.		
START_DATE	Optional	This field contains the start date for the recurring transaction being added to the system. For a monthly schedule this date is used to set the day of the month as well as the start date. This field is optional and if omitted the current date will be used as the bases for calculating the start date.	Numeric: 8 Digit limit	Recurring Start Date MM/DD/YYYY

- [CREATE\\_RECURRING\\_BANKCARD\\_PAYER](#) (For testing click [HERE](#))
- [\\*CREATE\\_RECURRING\\_VIRTUALCHECK\\_PAYER](#) (For testing click [HERE](#))

\*For Virtual Check only

This operation will only create a Payer ID#. You will need to build a separate operation (CREATE\_RECURRING\_TRANSACTION) in order to add the recurring payer to a Group and Schedule.

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
ACTIVE	Required	This field contains a numerical value indicating whether the transaction being processed should be added to the recurring system.	Numeric: 2 digit limit	<ul style="list-style-type: none"> <li>• 01=Active</li> <li>• 02=Inactive</li> </ul>
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	Use <a href="#">CREATE_RECURRING_CUSTOMER</a> to generate a Customer ID.  *The Customer ID is only needed to create a Recurring Record.
FIRST_NAME	Optional	This field contains the customer's first name for the transaction being processed.	Alpha: 50 character limit	John
LAST_NAME	Optional	This field contains the customer's last name for the transaction being processed.	Alpha: 50 character limit	Doe
ADDRESS	Optional	This field contains the customer's address for the transaction being processed. The Address is used in address verification requested transactions.	A/N: 50 Character limit	123 Main St.

CITY	Optional	This field contains the customer's city for the transaction being processed.	A/N: 50 Character limit	Juneau
STATE	Optional	This field contains the customer's state for the transaction being processed and can be either an abbreviation or the full name	Alpha: 50 character limit	AK
ZIP	Optional	This field contains the customer's zip/postal code for the transaction being processed. The zip/postal Code is used in address verification requested transactions.	Domestic: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
COUNTRY	Optional	This field contains the customer's billing country code or description for the transaction being processed, if not provided US is assumed	A/N: 50 Character limit	United States, US, 840
EMAIL_ADDRESS	Optional	This field contains the customer's email address for the transaction being processed. If the email address is provided and the merchant has the email setting enabled inside the virtual terminal the customer will receive an email order confirmation with transaction details.	A/N: 50 Character limit with an @ symbol	test@test.com
SHIPPING_RECIPIENT	Optional	This field contains the recipient's name for the transaction being processed. Recipient data is used for transaction records where a shipping	A/N: 50 Character limit	John Doe

		address was supplied.		
SHIPPING_ADDRESS	Optional	This field contains the recipient's address for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	123 Main St.
SHIPPING_CITY	Optional	This field contains the recipient's city for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	Juneau
SHIPPING_STATE	Optional	This field contains the recipient's state for the transaction being processed and can be either an abbreviation or the full name. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	AK
SHIPPING_ZIP	Optional	This field contains the recipient's zip code for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	Domestic: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
SHIPPING_COUNTRY	Optional	This field contains the recipient's country code or description for the transaction being processed, if not provided US is assumed.	A/N: 50 Character limit	United States, US, 840
CARDNUMBER	Required	This field contains the card number for the transaction being processed. The card number should contain numbers only with no	Numeric: 13-16 Digit limit	4111111111111111

		spaces or dashes.		
CARD_EXP_MONTH	Required	This field contains the 2 digit card expiration month for the recurring transaction.	Numeric: 2 digits	MM
CARD_EXP_YEAR	Required	This field contains the 2 digit card expiration year for the recurring transaction.	Numeric: 2 digits	YY
<b>Virtual Check (ACH) only</b>				
RTE	Required	<p>This field contains the Check Writer's Routing/Transit Number (9 Digit). The Routing number should contain numbers only with no spaces or dashes.</p> <p><i>*For CREATE_RECURRING_VIRTUALCHECK_PAYE R_AND_TRANSACTION operation <u>only</u>.</i></p>	Numeric: 9 Digits	056008849
ACCOUNT	Required	<p>This field contains the Check Writer's Bank Account Number. The Account number should contain numbers only with no spaces or dashes.</p> <p><i>*For CREATE_RECURRING_VIRTUALCHECK_PAYE R_AND_TRANSACTION operation <u>only</u>.</i></p>	This field contains the Check Writer's Bank Account Number. The Account number should contain numbers only with no spaces or dashes.	This field contains the Check Writer's Bank Account Number. The Account number should contain numbers only with no spaces or dashes.
ACCOUNT_TYPE	Required	<p>This field identifies which the Check Writer's bank account type.</p> <p><i>*For <u>CREATE_RECURRING_VIRTUALCHECK_PAYER_AND_TRANSACTION</u> operation <u>only</u>.</i></p>	Alpha: 3 Letters	<p>Bank Account Type:</p> <ul style="list-style-type: none"> <li>• DDA=Checking Account</li> <li>• SAV=Savings Account</li> </ul>

- [CREATE RECURRING TRANSACTION](#) (For testing click [HERE](#))

\*For Virtual Check only

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
CUSTOMER_ID	Required	This field contains a unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	Use <a href="#">CREATE RECURRING CUSTOMER</a> to create a Customer ID  *The Customer ID is only needed to create a Recurring Record.
PAYER_ID	Required	This field contains a unique number that identifies the name of the Payer. The Payer is the person paying with the credit card. The Customer and the Payer could be the same person if they are not affiliated with a business/government agency.	Numeric: 7 Digits	Use <a href="#">CREATE RECURRING BANKCARD PAYER AND TRANSACTION</a> <a href="#">CREATE RECURRING VIRTUALCHECK PAYER AND TRANSACTION</a> <a href="#">CREATE RECURRING BANKCARD PAYER</a> or <a href="#">CREATE RECURRING VIRTUALCHECK PAYER</a> to create a Payer ID
GROUP_ID	Required	This field contains a numerical value indicating the recurring group for which the recurring transaction will be associated with. There must be at least one recurring group setup before a recurring transaction can be added to the system.	Numeric: 5 Digit limit	There must be at least one recurring group setup in the Virtual Terminal before a recurring transaction can be added to the system.
SCHEDULE_ID	Required	This field contains a	Numeric: 5	Schedules are created in

		numerical value indicating the recurring schedule for which the recurring transaction will be associated with.	Digit limit	the Virtual Terminal under Recurring > Schedules.
AMOUNT	Required	This field contains the amount for the recurring transaction being processed. The amount should contain numbers only	Numeric: 6 Character limit (not including the .00)	1328.00; 1328.0; 1328; 1328.20; 1328.2
T_CODE	Required	This field contains the transaction code for the transaction being processed. The transaction code should contain numbers only.	Numeric: 2 Digits	<ul style="list-style-type: none"> <li>• 01=Sale</li> <li>• 02=Auth Only</li> </ul>
TIMES_TO_PROCESS	Required	<p>This field contains a numerical value indicating the number of times the recurring schedule should be run for the transaction being processed.</p> <p>*This <u>only</u> applies when the Recurring Process Indefinitely field is 0.</p>	Numeric: 4 Digit limit	6=The recurring customer will become inactive after the sixth recurring run.
INDEFINITE	Required	This field contains a numerical value indicating whether the recurring schedule should be process indefinitely for the transaction being processed.	Numeric: 1 Digit limit	<ul style="list-style-type: none"> <li>• 0=Not Indefinite</li> <li>• 1=Yes Indefinite</li> </ul>
REFERENCE	Optional	This field contains a third part reference for the recurring transaction. If a reference is not provided the system	A/N: 1-50 Character limit	12345



		will generate a unique one and assign it to the recurring record.		
ORIGINATOR_ID	*Required For Virtual Check updates only	10 Digit Originator ID – Assigned by Sage for each transaction class or business purpose. If not provided, the default Originator ID for the specific Customer Type will be applied. An Originator is a numeric value used by the ACH network to identify the origin of a transaction.	Numeric: 10 Digits	0000000000
ORIGINATOR_TRAN_CLASS	*Required For Virtual Check updates only	This field contains a three-letter code that uniquely identifies the class of ACH transaction.	Alpha: 3 Letters	NACHA Transaction Class:  CCD=Commercial, Merchant Initiated  PPD=Personal, Merchant Initiated  WEB=Internet, Consumer Initiated

- [UPDATE\\_RECURRING\\_TRANSACTION](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
RECURRING_ID	Required	A unique number that identifies the Payer's information and Recurring transaction.	Numeric: 7 Digits	You also need the Recurring ID to use the UPDATE_RECURRING_TRANSACTION operation. <u>Please Note:</u> There is no Web Service operation to query the Recurring ID. If the Recurring ID is lost you can update the recurring record directly in the Virtual Terminal.
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	1234567
PAYER_ID	Required	A unique number that identifies the Bankcard or Virtual Check Payer.	Numeric: 7 Digits	8901234
GROUP_ID	Required	This field contains a numerical value indicating the recurring group for which the recurring transaction will be associated with. There must be at least one recurring group setup before a recurring transaction can be	Numeric: 5 Digit limit	There must be at least one recurring group setup in the Virtual Terminal before a recurring transaction can be added to the system.

		added to the system.		
SCHEDULE_ID	Required	This field contains a numerical value indicating the recurring schedule for which the recurring transaction will be associated with.	Numeric: 5 Digit limit	Schedules are created in the Virtual Terminal under Recurring > Schedules.
ACTIVE	Required	This field contains a numerical value indicating whether the transaction being processed should be added to the recurring system.	Numeric: 2 digit limit	<ul style="list-style-type: none"> <li>• 01=Active</li> <li>• 02=Inactive</li> </ul>
AMOUNT	Required	This field contains the amount for the recurring transaction being processed. The amount should contain numbers only	Numeric: 6 Character limit (not including the .00)	1328.00; 1328.0; 1328; 1328.20; 1328.2
T_CODE	Required	This field contains the transaction code for the transaction being processed. The transaction code should contain numbers only.	Numeric: 2 Digits	<ul style="list-style-type: none"> <li>• 01=Sale</li> <li>• 02=Auth Only</li> </ul>
TIMES_TO_PROCESS	Required	<p>This field contains a numerical value indicating the number of times the recurring schedule should be run for the transaction being processed.</p> <p>*This <u>only</u> applies when the Recurring Process Indefinitely field is 0.</p>	Numeric: 4 Digit limit	6=The recurring customer will become Inactive after the sixth recurring run.
INDEFINITE	Required	This field contains a numerical value indicating whether the recurring schedule should be process indefinitely for the	Numeric: 1 Digit limit	<ul style="list-style-type: none"> <li>• 0=Not Indefinite</li> <li>• 1=Yes Indefinite</li> </ul>

		transaction being processed.		
REFERENCE	Optional	This field contains a third part reference for the recurring transaction. If a reference is not provided the system will generate a unique one and assign it to the recurring record.	A/N: 1-50 Character limit	12345
ORIGINATOR_ID	*Required For Virtual Check updates only	10 Digit Originator ID – Assigned by Sage for each transaction class or business purpose. If not provided, the default Originator ID for the specific Customer Type will be applied. An Originator is a numeric value used by the ACH network to identify the origin of a transaction.	Numeric: 10 Digits	0000000000
ORIGINATOR_TRAN_CLASS	*Required For Virtual Check updates only	This field contains a three-letter code that uniquely identifies the class of ACH transaction.	Alpha: 3 Letters	NACHA Transaction Class:  CCD=Commercial, Merchant Initiated  PPD=Personal, Merchant Initiated  WEB=Internet, Consumer Initiated

- [UPDATE\\_RECURRING\\_BANKCARD\\_PAYER](#) (For testing click [HERE](#))
- [\\*UPDATE\\_RECURRING\\_VIRTUALCHECK\\_PAYER](#) (For testing click [HERE](#))

\*Virtual Check only variable(s)

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
PAYER_ID	Required	A unique number that identifies the Bankcard or Virtual Check Payer.	Numeric: 7 Digits	8901234
FIRST_NAME	Optional	This field contains the customer's first name for the transaction being processed.	Alpha: 50 character limit	John
LAST_NAME	Optional	This field contains the customer's last name for the transaction being processed.	Alpha: 50 character limit	Doe
ADDRESS	Optional	This field contains the customer's address for the transaction being processed. The Address is used in address verification requested transactions.	A/N: 50 Character limit	123 Main St.
CITY	Optional	This field contains the customer's city for the transaction being processed.	A/N: 50 Character limit	Juneau
STATE	Optional	This field contains the customer's state for the transaction being processed and can be either an abbreviation or the full name	Alpha: 50 character limit	AK
ZIP	Optional	This field contains the customer's zip/postal code for the	Domestic: 5 or 9 Digit International: 50	12345

		transaction being processed. The zip/postal Code is used in address verification requested transactions.	A/N Limit minimum 3 characters	
COUNTRY	Optional	This field contains the customer's billing country code or description for the transaction being processed, if not provided US is assumed	A/N: 50 Character limit	United States, US, 840
EMAIL_ADDRESS	Optional	This field contains the customer's email address for the transaction being processed. If the email address is provided and the merchant has the email setting enabled inside the virtual terminal the customer will receive an email order confirmation with transaction details.	A/N: 50 Character limit with an @ symbol	test@test.com
SHIPPING_RECIPIENT	Optional	This field contains the recipient's name for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	John Doe
SHIPPING_ADDRESS	Optional	This field contains the recipient's address for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	123 Main St.
SHIPPING_CITY	Optional	This field contains the recipient's city for the transaction being processed. Recipient	A/N: 50 Character limit	Juneau



		data is used for transaction records where a shipping address was supplied.		
SHIPPING_STATE	Optional	This field contains the recipient's state for the transaction being processed and can be either an abbreviation or the full name. Recipient data is used for transaction records where a shipping address was supplied.	A/N: 50 Character limit	AK
SHIPPING_ZIP	Optional	This field contains the recipient's zip code for the transaction being processed. Recipient data is used for transaction records where a shipping address was supplied.	Domestic: 5 or 9 Digit International: 50 A/N Limit minimum 3 characters	12345
SHIPPING_COUNTRY	Optional	This field contains the recipient's country code or description for the transaction being processed, if not provided US is assumed.	A/N: 50 Character limit	United States, US, 840
CARDNUMBER	Required	This field contains the card number for the transaction being processed. The card number should contain numbers only with no spaces or dashes.	Numeric: 13-16 Digit limit	4111111111111111
CARD_EXP_MONTH	Required	This field contains the 2 digit card expiration month for the recurring transaction.	Numeric: 2 digits	MM
CARD_EXP_YEAR	Required	This field contains the 2 digit card expiration year for the recurring transaction.	Numeric: 2 digits	YY
ACCOUNT_TYPE	Required	This field identifies which the Check Writer's bank account	Alpha: 3 Letters	Bank Account Type: <ul style="list-style-type: none"> <li>DDA=Checkin</li> </ul>

		type.  *For Virtual Check updates only.		g Account • SAV=Savings Account
ROUTING_NUMBER	Required	This field contains the Check Writer's Routing/Transit Number (9 Digit). The Routing number should contain numbers only with no spaces or dashes. *For Virtual Check updates only.		
ACCOUNT_NUMBER	Required	This field contains the Check Writer's Bank Account Number. The Account number should contain numbers only with no spaces or dashes. *For Virtual Check updates only.	Numeric: 17 Digit limit <i>*There is no well-defined standard for the length of US bank account numbers. The NACHA standard file format defines the account number as up to 17 digits.</i>	12345678901234





- [SET\\_RECURRING\\_START\\_DATE](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
PAYER_ID	Required	A unique number that identifies the Bankcard or Virtual Check Payer.	Numeric: 7 Digits	8901234
STARTDATE	Required	This field contains the start date for the recurring transaction being added to the system. For a monthly schedule this date is used to set the day of the month as well as the start date. This field is optional and if omitted the current date will be used as the bases for calculating the start date.	Numeric: 8 Digit limit	M-DD-YY, M/DD/YY, MM-DD-YYYY, or MM/DD/YYYY

- [VIEW\\_BANKCARD\\_PROCESSED](#) (For testing click [HERE](#))
- [VIEW\\_VIRTUALCHECK\\_PROCESSED](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
STARTDATE	Required	This field contains the start date for the recurring transaction(s) processed (Approved or Declined).	Numeric: 8 Digit limit	M-DD-YY, M/DD/YY, MM-DD-YYYY, or MM/DD/YYYY
ENDDATE	Required	This field contains the end date for the recurring transaction(s) processed (Approved or Declined).	Numeric: 8 Digit limit	M-DD-YY, M/DD/YY, MM-DD-YYYY, or MM/DD/YYYY
ORDERNUMBER	Optional	This field contains the order number for the transaction processed (Approved or Declined).	A/N: 50 Character limit	12345

- [VIEW\\_RECURRING\\_BANKCARD\\_PROCESSED](#) (For testing click [HERE](#))
- [VIEW\\_RECURRING\\_VIRTUALCHECK\\_PROCESSED](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
STARTDATE	Required	This field contains the start date for the recurring transaction(s) processed (Approved or Declined).	Numeric: 8 Digit limit	M-DD-YY, M/DD/YY, MM-DD-YYYY, or MM/DD/YYYY
ENDDATE	Required	This field contains the end date for the recurring transaction(s) processed (Approved or Declined).	Numeric: 8 Digit limit	M-DD-YY, M/DD/YY, MM-DD-YYYY, or MM/DD/YYYY

- [VIEW\\_RECURRING\\_CUSTOMER\\_DETAIL](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	1234567

- [VIEW\\_RECURRING\\_CUSTOMER\\_LISTING](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6

- [VIEW\\_RECURRING\\_GROUP\\_LISTING](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6

- [VIEW RECURRING PAYER DETAIL](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	1234567
PAYER_ID	Required	A unique number that identifies the Bankcard or Virtual Check Payer.	Numeric: 7 Digits	8901234

- [VIEW RECURRING PAYER LISTING](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
CUSTOMER_ID	Required	A unique number that identifies the name of the Payer's business or the Payer.	Numeric: 7 Digits	1234567

- [VIEW RECURRING SCHEDULE LISTING](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6

- [VIEW RECURRING TRANSACTION DETAIL](#) (for testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
RECURRING_ID	Required	A unique number that identifies the Payer's information and Recurring transaction.	Numeric: 7 Digits	You need the Recurring ID to use the <a href="#">UPDATE RECURRING TRANSACTION</a> operation. <u>Please Note:</u> There is no Web Service operation to query the Recurring ID. If the Recurring ID is lost you can update the recurring record directly in the Virtual Terminal.

- [VIEW RECURRING TRANSACTION LISTING](#) (For testing click [HERE](#))

Field Data Element	Required	Field Description	Parameters	Format and Examples
M_ID	Required	12 Digit Merchant Identification (Virtual Terminal ID) Number Required for Gateway Access	Numeric: 12 digits	999999999997
M_KEY	Required	12 Digit Merchant Key Required for Gateway Access	A/N: 12 Digits Letter number letter number format; case sensitive	A1B2C3D4E5F6
GROUP_ID	Required	This field contains a numerical value indicating the recurring group for which the recurring transaction is associated with.	Numeric: 5 Digit limit	45678
SCHEDULE_ID	Required	This field contains a numerical value indicating the recurring schedule for which the recurring transaction will be associated with.	Numeric: 5 Digit limit	Schedules are created in the Virtual Terminal under Recurring > Schedules.