

# SAGE PAYMENT SOLUTIONS

## GATEWAY

**Vault Web Services**

**Revised 12/08/2006**



## **Overview – Vault Web Services**

The Vault web services are designed to store data, securely, with CISP compliance for merchants using our Gateway. By using the Vault a merchant can replace sensitive data stored in internal systems with a GUID and then access it at anytime using this GUID. The Vault can also be used to assist in recurring credit card transaction processing. By storing the credit card number and expiration for a customer, in the proper format, the Vault can process a transaction at anytime using the GUID.

## Vault Storage

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

[https://www.sagepayments.net/web\\_services/wsVault/wsVault.asmx?WSDL](https://www.sagepayments.net/web_services/wsVault/wsVault.asmx?WSDL)

Methods:

- INSERT\_DATA – inserts data into the Vault and returns a GUID for later data access
- UPDATE\_DATA – updates data in the Vault using the corresponding GUID returned from an insert
- SELECT\_DATA – retrieves data in the Vault using the corresponding GUID returned from an insert
- INSERT\_BULK\_DATA – inserts an array of data into the Vault and returns an array of GUIDs for later data access ( this method can be used to increase system performance by eliminating round trips )
- SELECT\_BULK\_DATA – retrieves data in the Vault corresponding to an array of GUIDs ( this method can be used to increase system performance by eliminating round trips )
- INSERT\_CREDIT\_CARD\_DATA – inserts credit card data into the Vault, in the proper format to be used with Vault transaction methods, and returns a GUID for later data access.
- UPDATE\_CREDIT\_CARD\_DATA - updates credit card data in the Vault, in the proper format to be used with Vault transaction methods, using the corresponding GUID returned from an insert
- VERIFY\_SERVICE – verifies that the Vault is enabled for a Verus Gateway account.

## Vault Transaction Processing

The Vault Transaction Processing web service wraps the public specification for HTTPS post transactions with the additional functionality of using a GUID instead of the credit card number and expiration.

The formal WSDL service description for the Vault transaction Processing Service is located at:

[https://www.sagepayments.net/web\\_services/wsVault/wsVaultBankcard.asmx?WSDL](https://www.sagepayments.net/web_services/wsVault/wsVaultBankcard.asmx?WSDL)

Methods:

- VAULT\_BANKCARD\_AUTHONLY – performs a new authorization only transaction.
- VAULT\_BANKCARD\_SALE – performs a new sale transaction.
- VAULT\_BANKCARD\_CREDIT – performs a new credit transaction.
- VAULT\_BANKCARD\_FORCE – performs a new force/prior authorization transaction.

The required data elements and fields for each method vary from method to method but are based on the HTTPS Documentation (See HTTPS Bankcard Documentation)

All Transaction Processing Methods will return an XML document. The document will contain 1 record with fields defined as follows:

Approval Indicator	<ul style="list-style-type: none"><li>• A = Approved</li><li>• E=Front-End Error/Non Approved</li><li>• X = Gateway Error/Non Approved</li></ul>
Code	Approval or Error Code
Message	Approval or Error Message
Reference	Unique Reference ID
Order Number	Order Number