

iPayment Integration - One-time Credit Card

One-time Credit Card allows for easy integration with iPayment.

When using the one-time Credit Card integration the credit card token will be associated with a specific document instead of the business partner.

The integration is done using a user defined table (UDT) where the third party system writes data. iPayment will check the user defined tables periodically and fill the iPayment tables using the data.

Contents

Integration table description	2
Integration table definition:	3
UDFs on the linked document	4
CyberSource additional information	4
Field mappings.....	5
Secure Trading	5
Authorize.Net	6
CyberSource.....	7
Eway.....	7
Moneris.....	8
Cayan	9
ProPay.....	10
Example Authorize.NET	11
Example CyberSource:.....	11

Integration table description

The user defined table is created by iPayment when run in the database and have the following structure:

Code (SAP default field)	Unique code
Name (SAP default field)	Unique name
DocEntry	DocEntry of the document in SAP this transaction is linked with
ObjectType	ObjectType of the document in SAP this transaction is linked with
Identifier	<p>The identifier returned by the gateway to represent this customer (Customer Profile Id). This is required, as it will be used when settling and refunding a transaction.</p> <p>Secure Trading: Secure trading does not return this. Instead, please create a unique identifier (GUID) and send it to the gateway in the field "orderreference" when adding the card to the Card Store.</p> <p>CyberSource: CyberSource does not return this. Leave blank for CyberSource.</p> <p>Authorize.NET/Secure Trading: iPayment verifies that the card exist on the gateway using the identifier before the card is saved into the iPayment tables.</p>
Credit Card Identifier	<p>The token created by the gateway to represent the Credit Card. This is required as it will be used when doing a re-auth or settling without an existing auth.</p> <p>CyberSource: This is the data stored in the tag "subscriptionID"</p>
Credit Card Type	<p>Valid values for this field is found below pr. gateway:</p> <p>Authorize.NET: Valid values: Visa, MasterCard, American Express, Discover, JCB, Diners Club</p> <p>Secure Trading: Valid values: VISA, DELTA, PURCHASING, ELECTRON, MASTERCARD, MASTERCARDDEBIT, MAESTRO, DINERS, DISCOVER, JCB, AMEX, VPAY</p> <p>CyberSource: Valid values: 001, 002, 003, 004, 005, 007</p> <p>(Visa, MasterCard, AmericanExpress, Discover, DinersClub, JCB)</p> <p>Eway: Valid values: Visa, Mastercard, AMEX, Diners Club, JCB, Maestro UK, Maestro International, Solo, Laser, Discover</p>

	Moneris: Valid values: V, M, AX, NO (Visa, Mastercard, American Express, Diners)
Expiration date	String in format: MM/YYYY
Authorization transaction reference	The reference returned by the gateway when creating the authorization. This is required as it will be used when settling the auth. Leave empty if no authorization was made.
Authorized amount	The amount that was authorized on the Credit Card. This is required as it allows for partial authorizations. Set to 0 if no authorization was made.
Gateway Type	Enum value for the gateway type used. 1 = Secure Trading, 2 = Authorize.NET, 3 = CyberSource, 4 = Eway, 5 = Moneris 6 = Cayan
Version	Always Value: 1
Timestamp	String in format: YYYY-MM-dd HH:mm:ss
ImportStatus	0 for not imported. 1 for imported. 2 for error. Please note: when you add a line to this table you must set ImportStatus to 0 . This will let iPayment know that it should try to import the line – setting it to 1 will result in the line not being processed!
ImportMessage	Will contain data if the import gave an error

Integration table definition:

Tablename: [@BOY_E0_OTCINTE]

Code	nvarchar(30)
Name	nvarchar(30)
U_DOCENTRY	int
U_OBJECTTYPE	nvarchar(254)
U_IDENTIFIER	nvarchar(254)
U_CREDITIDENTIFIER	nvarchar(254)
U_CARDTYPE	nvarchar(20)
U_EXPIRATION	nvarchar(7)
U_AUTHREF	nvarchar(254)
U_AUTHAMOUNT	numeric(19, 6)
U_GATEWAY	int
U_VERSION	int
U_TIMESTAMP	nvarchar(254)
U_IMPORTSTATUS	int

U_IMPORTMSG	nvarchar(254)
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[UDFs on the linked document](#)

To ensure that the OTC integration is properly linked to the document, it is recommended that you set the following UDFs with the specified values. This will likely be done by your third party application that handles the authorizations outside of iPayment.

U_BOY_E0_CCPAYEX = "Y"

U_BOY_E0_ONETIMCC = "Y"

[CyberSource additional information](#)

iPayment uses the "recurringSubscriptionInfo" object to tokenize the Credit Card data. The token should be generated with "frequency" = "on-demand" and "paySubscriptionCreateService" = "true". The returned "subscriptionID" should be saved into the integration table.

Adding the Credit Card and getting the token is possible using the XML API

(The C# example below is missing the header + soap wrapper).

```

XElement("billTo",
    XElement("firstName", creditCardRequest.FirstName),
    XElement("lastName", creditCardRequest.LastName),
    XElement("street1", creditCardRequest.Street),
    XElement("city", creditCardRequest.City),
    XElement("state", creditCardRequest.State),
    XElement("postalCode", creditCardRequest.ZipCode),
    XElement("country", creditCardRequest.Country),
    XElement("email", creditCardRequest.Email)
),
XElement("purchaseTotals",
    XElement("currency", creditCardRequest.Currency)
),
XElement("card",
    XElement("accountNumber", creditCardRequest.CardNumber),
    XElement("expirationMonth", creditCardRequest.ExpiryDateMonth),
    XElement("expirationYear", creditCardRequest.ExpiryDateYear),
    XElement("cvNumber", creditCardRequest.SecurityCode),
    XElement("cardType", GetCardTypeFromEnum(creditCardRequest.CardType))
),
XElement("recurringSubscriptionInfo",
    XElement("frequency", "on-demand")
),
XElement("paySubscriptionCreateService", new XAttribute("run", "true"))

```

Authorizing on the returned "subscriptionID" is possible using the XML API.

The returned "requestID" should be added to the "Authorization transaction reference" field in the integration table.

(The C# example below is missing the header + soap wrapper).

```

XElement("purchaseTotals",
    XElement("currency", request.Currency),
    XElement("grandTotalAmount", GetDecimalAsString(request.Amount))
),

```

```
XElement("recurringSubscriptionInfo",
    XElement("subscriptionID", request.CreditCardTransactionReference)
),
XElement("ccAuthService", new XAttribute("run", "true")),
    XElement("ccAuthService", new XAttribute("run", "true")),
```

You can find the full documentation here:

http://apps.cybersource.com/library/documentation/dev_guides/Payment_Tokenization/SO_API/Payment_Tokenization_SO_API.pdf

Field mappings

Here is a description of the specific fields you need to map to each field in the table, depending on the gateway you're using.

Some of these fields will be returned when you are creating the token, while others will be returned when you're doing an authorization on the card.

Depending on your 3rd party integration, these fields may have varying names. The names we use here are the names as they are returned directly from the gateway.

Secure Trading

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Secure trading does not return this. Instead, please create a unique identifier (GUID) and send it to the gateway in the field "orderreference" when adding the card to the Card Store.
U_CREDITIDENTIFIER	Leave blank.
U_CARDTYPE	Not returned by Secure Trading Please see Integration Table Description for valid values
U_EXPIRATION	Not returned by Secure Trading The expiration date of the card.
U_AUTHREF	Secure Trading – returned as 'transactionReference'
U_AUTHAMOUNT	Secure Trading – returned as 'amount' . If you use the value returned by Secure Trading, you will need to convert it to the correct format.
U_GATEWAY	Must be set to '1' for Secure Trading
U_VERSION	Must be set to 1

U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <http://www.securetrading.com/files/documentation/STPP-XML-Specification.pdf>

Authorize.Net

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Gateway – Returned as 'CustomerProfileId' when creating a customer profile.
U_CREDITIDENTIFIER	Gateway – Returned as 'customerPaymentProfileId' when creating a payment profile.
U_CARDTYPE	Not returned by Authorize.Net. Please see Integration Table Description for valid values
U_EXPIRATION	Not returned by Authorize.Net. The expiration date of the card.
U_AUTHREF	Gateway – Returned as transId when performing an authorization.
U_AUTHAMOUNT	Not returned by Authorize.Net. The amount of the authorization
U_GATEWAY	Must be set to '2' for Authorize.Net
U_VERSION	Must be set to 1.
U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <https://developer.authorize.net/api/reference/index.html>

CyberSource

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Leave blank.
U_CREDITIDENTIFIER	Gateway – returned as ‘subscriptionID’ when creating a subscription.
U_CARDTYPE	Gateway – Returned as ‘cardType’ when requesting card details. Please see Integration Table Description for valid values
U_EXPIRATION	Gateway – Returned as ‘cardExpirationMonth’ and ‘cardExpirationYear’ when requesting card details.
U_AUTHREF	Gateway – Returned as ‘requestID’ when performing an authorization.
U_AUTHAMOUNT	Gateway – Returned as ‘amount’ when performing an authorization.
U_GATEWAY	Must be set to ‘3’ for CyberSource
U_VERSION	Must be set to 1
U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

Eway

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Leave blank.
U_CREDITIDENTIFIER	Gateway – Returned as ‘TokenCustomerId’ when creating a customer.
U_CARDTYPE	Not returned by Eway

	Please see Integration Table Description for valid values
U_EXPIRATION	Gateway – Returned as ‘ExpiryMonth’ and ‘ExpiryYear’ when creating a token.
U_AUTHREF	Gateway – Returned as ‘TransactionID’ when performing an authorization.
U_AUTHAMOUNT	Not returned by Eway. The amount of the authorization.
U_GATEWAY	Must be set to ‘4’ for Eway
U_VERSION	Must be set to 1
U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <https://eway.io/api-v3/#api-reference>

Moneris

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Leave blank.
U_CREDITIDENTIFIER	Gateway – Returned as ‘CustomerID’ when creating a vault card.
U_CARDTYPE	Not returned by Moneris Please see Integration Table Description for valid values.
U_EXPIRATION	Gateway – Returned as ‘ExpiryDate’ when creating a vault card.
U_AUTHREF	Not returned by Moneris. Instead, please create a uniquevalue and send it to the gateway in the field “OrderID” when performing the transaction.
U_AUTHAMOUNT	Not returned by Moneris. The amount of the authorization.
U_GATEWAY	Must be set to ‘5’ for Moneris
U_VERSION	Must be set to 1

U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <https://developer.moneris.com/en/Documentation/NA/E-Commerce%20Solutions/API>

Cayan

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Leave blank.
U_CREDITIDENTIFIER	Gateway – Returned as ‘VaultToken’ when boarding a card to the vault.
U_CARDTYPE	Gateway – Returned as ‘CardType’ when boarding a card to the vault.
U_EXPIRATION	Gateway – Returned as ‘ExpirationDate’ when boarding a card to the vault.
U_AUTHREF	Gateway – Returned as ‘Token’ when performing an authorization.
U_AUTHAMOUNT	Gateway – Returned as ‘Amount’ when performing an authorization.
U_GATEWAY	Must be set to ‘6’ for Cayan
U_VERSION	Must be set to 1
U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <https://cayan.com/developers/merchantware/merchantware-4-5/credit#service-information>

ProPay

Code	SAP code – must be unique
Name	SAP name – must be unique
U_DOCENTRY	SAP - The DocEntry of the associated document
U_OBJECTTYPE	SAP - The ObjectType of the associated document
U_IDENTIFIER	Gateway – Returned as ‘ExternalAccountID’ when creating a customer profile.
U_CREDITIDENTIFIER	Gateway – Returned as ‘PaymentMethodID’ when creating a payment method.
U_CARDTYPE	Not returned by ProPay Please see Integration Table Description for valid values
U_EXPIRATION	Gateway – Returned as ‘ExpirationDate’ when boarding a card to the vault.
U_AUTHREF	Gateway – Returned as ‘TransactionHistoryId’ when performing an authorization.
U_AUTHAMOUNT	Gateway – Returned as ‘CurrencyConvertedAmount’ when performing an authorization. Please note that this value is in cents.
U_GATEWAY	Must be set to ‘7’ for ProPay
U_VERSION	Must be set to 1
U_TIMESTAMP	The current time when adding the entry.
U_IMPORTSTATUS	Must be set to 0. iPayment will update this field after trying an import. Please see Integration Table Description for values.
U_IMPORTMSG	Leave blank. This will be populated after iPayment tries to perform the import.

For further details see: <https://cayan.com/developers/merchantware/merchantware-4-5/credit#service-information>

Example Authorize.NET

A record created by a third-party system using Authorize.NET would look like (Where the code and name is unique as required by SAP):

Code (SAP default field)	1
Name (SAP default field)	1
DocEntry	132
ObjectType	17
Identifier	38220908
Credit Card Identifier	34738935
Credit Card Type	VISA
Expiration date	11/2018
Authorization transaction reference	34134324
Authorized amount	732.50
Gateway Type	2
Version	1
Timestamp	2015-11-19 08:55:22
ImportStatus	0
ImportMessage	

Example CyberSource:

Code (SAP default field)	1
Name (SAP default field)	1
DocEntry	132
ObjectType	17
Identifier	
Credit Card Identifier	347389353242342
Credit Card Type	001
Expiration date	11/2020
Authorization transaction reference	341343242342342
Authorized amount	832.50
Gateway Type	3
Version	1
Timestamp	2015-11-19 08:55:22
ImportStatus	0
ImportMessage	