

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.

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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) |
|--------------------|---------------|

[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 | |