Web Active Corporation/eWAY

Token Payment Web Services

Data type and field specifications

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Contents

Introduction

This document will specify the methods which are available in Token Payment web service. It also explains the request and response format of the web services; field specification and validation required in token payments.

The following methods are available.

- CreateCustomer

- QueryCustomer

- UpdateCustomer

- ProcessPayment

- ProcessPaymentWithCVN

- QueryPayment

To able to call the above web service methods, eWAYCustomerID, username and password need to specify in soap header.

Data Field Specifications

The following table lists all the field names and their maximum length, and it also specifies the required fields.

Even though all fields are not required, all fields must be set and if they are not applicable, the value can be set to an empty string or N/A. For the required fields, the valid values must be passed.

Soap Header	Maximum Field length	Required
ewayCustomerID	8	✔
Username	100	✔
Password	50	✔
Request Fields		
CustomerRef	20	
Title	20	✔
FirstName	50	✔
LastName	50	✔
Company	100	
JobDesc	50	
Email	50	
Address	255	
Suburb	50	

Field	Length	Required
State	50	
PostCode	6	
Country	2	✔
Phone	20	
Mobile	20	
Fax	20	
URL	255	
Comments	255	
CCNumber	20	✔
CCNameOnCard	50	
CCExpiryMonth	2	✔
CCExpiryYear	2	✔
CVN	4	✔

Response Fields		
Result	10	
ErrorSeverity	50	
ErrorDetails	255	

Field Description

The following table lists the description, field format and example value to be passed for each field.

eWAY Field Name	Description
ewayCustomerID (Required)	Your unique 8 digit eWAY customer ID assigned to you when you join eWAY e.g. 1xxxxxxx.
Username (Required)	Your username which is used to login to eWAY Business Center.
Password (Required)	Your password which is used to login to eWAY Business Center.
CustomerRef	Your own reference number for your customer
Title (Required)	Your customers title and it must be one of these values; Mr., Ms., Mrs., Miss, Dr., Sir. or Prof.
FirstName	The first name of your customer
LastName	The last name of your customer
Company	The company your customer works for
JobDesc	Your customers job description/title, e.g. CEO, Director etc
Email	Your customers Email address
Address	Your customers physical address
Suburb	Your customers city/suburb
State	Your customers State
PostCode	Your customers Post code

Country (Required)	Your customers Country. It must be valid two character country code. E.g. **au** for Australia and **uk** for United Kingdom.
Phone	Your customers Phone Number (Only digit numbers allowed)
Mobile	Your customers mobile number (Only digit numbers allowed)
Fax	Your customers fax number (Only digit numbers allowed)
URL	The URL of your customers website
Comments	Any comments that your customer wishes to add, or you wish to add about the customer
CCNumber	Credit Card Number of your customer
CCNameOnCard	Credit Card Holder's name
CCExpiryMonth	Credit Card expiry month
CCExpiryYear	Credit Card expiry year. It must be in 2 digit format. E.g. 08,09,10
CVN	3 or 4 digit number on the back of the credit card, required only with ProcessPaymentWith CVN request.
InvoiceReference	A reference to your own invoice system for the purchase.
InvoiceDescription	A description of the products or services purchased.
ManagedCustomerID	Your existing customer ID which is used in processing payment, querying payment and updating customer details.
Amount	The total amount in **cents** for the transaction, eg $1.00 = 100
ewayTrxnReference	See **'eWAYTrxnNumber'**.
ewayTrxnStatus	This value is returned to your website. For a successful transaction **"True"** is passed and for a failed transaction **"False"** is passed. This allows you to make your own logging on your website for transaction status.
ewayTrxnNumber	This value is returned to your website. You can pass a unique transaction number from your site. You can update and track the

	status of a transaction when eWAY returns to your site. NB. This number is returned as **'ewayTrxnReference'**. The number returned as **'ewayTrxnNumber'**, is actually the unique eWAY Transaction number, created by eWAY itself.
ewayAuthCode	If the transaction is successful, this is the bank authorisation number. This is also sent in the email receipt.
eWAYReturnAmount	Can be used a check that the transaction is processed for the same amount as you request from your website.
ewayTxnError	This is the response returned by the bank, and can be related to both successful and failed transactions.

Validation on Customer

Create Customer

When creating a customer, the following validation rules apply.

- Title must be one of these values; Mr., Ms., Mrs., Miss, Dr., Sir. or Prof.

- First Name is required.

- Last Name is required.

- Email and URL must be in valid format.

- Credit Card must be in valid format and a valid card. It must not be expired card.

- Country must be valid two character country code. E.g. **au** for Australia and **uk** for United Kingdom.

Update Customer

When updating customer details, the following validation rules apply.

- Managed Customer ID is required and it must be an existing customer ID.

- Customer Title must be one of these values; Mr., Ms., Mrs., Miss, Dr., Sir. or Prof.

- Customer First Name is required.

- Customer Last Name is required.

- Email and URL must be in valid format.

- Credit Card must be in valid format and a valid card. It must not be expired card. If you are not updating Credit Card details, you can still pass the partial credit card values that you retrieved from Query method. (i.e. 44443XXXXXXX1111 is a valid credit card format and the original value will be restored.)

- Country must be valid two character country code. E.g. **au** for Australia and **uk** for United Kingdom.

Query Customer

- Managed Customer ID is required and it must be an existing ID.

Validation on Process Payment

When processing and querying payment, the following validations apply.

Process Payment

- Managed Customer ID is required and it must be an existing customer ID.

- Amount is required and it must be in cents.

Process Payment With CVN

- Managed Customer ID is required and it must be an existing customer ID.

- The CVN number is required and must be 3 digits (Visa/MasterCard) or 4 digits (American Express).

- Amount is required and it must be in cents.

Query Payment

- Managed Customer ID is required and it must be an existing customer ID.

Appendix A: Request and Response Format for Customer

Create Customer
Request

```
<soap:Header>
  <eWAYHeader xmlns="http://www.eway.com.au/gateway/managedPayment ">
    <eWAYCustomerID>87654321</eWAYCustomerID>
    <Username>test@eway.com.au</Username>
    <Password>test123</Password>
  </eWAYHeader>
</soap:Header>
<soap:Body>
  <CreateCustomer xmlns="http://www.eway.com.au/ gateway/managedPayment">
    <Title>Mr.</Title>
    <FirstName>Joe</FirstName>
    <LastName>Bloggs</LastName>
    <Address>Bloggs Enterprise</Address>
    <Suburb>Capital City</Suburb>
    <State>ACT</State>
    <Company>Bloggs</Company>
    <PostCode>2111</PostCode>
    <Country>au</Country>
    <Email>test@eway.com.au</Email>
    <Fax>0298989898</Fax>
    <Phone>0297979797</Phone>
     <Mobile></Mobile>
    <CustomerRef>Ref123</CustomerRef>
    <JobDesc></JobDesc>
    <Comments>Please Ship ASASP</Comments>
    <URL>http://www.test.com.au<URL>
    <CCNumber>4444333322221111</CCNumber>
    <CCNameOnCard>Test Account </CCNameOnCard>
    <CCExpiryMonth>01</CCExpiryMonth>
    <CCExpiryYear>10</CCExpiryYear>
  </CreateCustomer>
</soap:Body>
```

Successful Response

```
<CreateCustomerResponse
xmlns="https://www.eway.com.au/gateway/managedpayment">
    <CreateCustomerResult>127421360542</CreateCustomerResult>
  </CreateCustomerResponse>
```

Failed Response

This will throw the soap exception and followings are the example exception.

The 'CustomerCountry' element is invalid - The value 'australia' is invalid according to its datatype 'Country' - The Pattern constraint failed.

Update Customer

Request

```
<soap:Header>
  <eWAYHeader xmlns="http://www.eway.com.au/ gateway/ManagedPayment ">
    <eWAYCustomerID>87654321</eWAYCustomerID>
    <Username>test@eway.com.au</Username>
    <Password>test123</Password>
  </eWAYHeader>
</soap:Header>
<soap:Body>
  <UpdateCustomer xmlns="http://www.eway.com.au/gateway/ManagedPayment">
    <managedCustomerID>9876543211000</managedCustomerID>
    <Title>Mr.</Title>
    <FirstName>Joe</FirstName>
    <LastName>Bloggs Enterprise</LastName>
    <Address>Capital City</Address>
    <Suburb>Capital City</Suburb>
    <State>ACT</State>
    <Company>Bloggs</Company>
    <PostCode>2111</PostCode>
    <Country>au</Country>
    <Email>test@eway.com.au</Email>
    <Fax>0298989898</Fax>
    <Phone>0297979797</Phone>
    <Mobile></Mobile>
    <CustomerRef>Ref123</CustomerRef>
    <JobDesc>bloggs</JobDesc>
    <Comments>Please Ship ASASP</Comments>
    <URL>http://www.test.com.au<URL>
    <CCNumber>4444333322221111</CCNumber>
    <CCNameOnCard>Test Account </CCNameOnCard>
    <CCExpiryMonth>01</CCExpiryMonth>
    <CCExpiryYear>10</CCExpiryYear>
  </UpdateCustomer>
</soap:Body>
```

Successful Response

<UpdateCustomerResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<UpdateCustomerResult>true</UpdateCustomerResult>
 </UpdateCustomerResponse>

Failed Response

This will throw a soap exception; below are some example exceptions.

The 'CustomerURL' element is invalid - The value 'test' is invalid according to its datatype 'AnyURL' - The Pattern constraint failed.

The 'CCNumber' element is invalid - The value '44443111' is invalid according to its datatype 'CreditCard' - The Pattern constraint failed.

Query Customer

```
<soap:Header>
  <eWAYHeader xmlns="http://www.eway.com.au/gateway/managedPayment">
    <eWAYCustomerID>87654321</eWAYCustomerID>
    <Username>test@eway.com.au</Username>
    <Password>test123</Password>
  </eWAYHeader>
 </soap:Header>
 <soap:Body>
<QueryCustomer xmlns="https://www.eway.com.au/gateway/managedpayment">
<managedCustomerID>9876543211000</managedCustomerID>
 </QueryCustomer>
 </soap:Body>
```

Successful Response

```
<QueryCustomerResponse
xmlns="https://www.eway.com.au/gateway/managedpayment">
    <QueryCustomerResult>
      <ManagedCustomerID>9876543211000</ManagedCustomerID>
      <CustomerRef>Testing - 123</CustomerRef>
      <CustomerTitle>Miss</CustomerTitle>
      <CustomerFirstName>Account</CustomerFirstName>
      <CustomerLastName>Test</CustomerLastName>
      <CustomerCompany>Testing </CustomerCompany>
      <CustomerJobDesc>Tester</CustomerJobDesc>
      <CustomerEmail>test@eway.com.au</CustomerEmail>
      <CustomerAddress>37 test</CustomerAddress>
      <CustomerSuburb>Ngu</CustomerSuburb>
      <CustomerState>ACT</CustomerState>
      <CustomerPostCode>2211</CustomerPostCode>
      <CustomerCountry>au</CustomerCountry>
      <CustomerPhone1>0255556677</CustomerPhone1>
      <CustomerPhone2>040411225588</CustomerPhone2>
      <CustomerFax>0255556666</CustomerFax>
      <CustomerURL>http://www.test-test.com</CustomerURL>
      <CustomerComments>Testing web services modified</CustomerComments>
      <CCName>Moe Oo</CCName>
      <CCNumber>44443XXXXXXX1111</CCNumber>
      <CCExpiryMonth>2</CCExpiryMonth>
      <CCExpiryYear>12</CCExpiryYear>
```

```
            </QueryCustomerResult>
        </QueryCustomerResponse>
```

Failed Response

If the Managed Customer ID doesn't exist, it will return null value.

```
<QueryCustomerResponse xmlns="https://www.eway.com.au/gateway/managedpayment"/>
```

Appendix B: Request and Response Format for Payment

Process Payment
Request

```
<soap:Header>
 <eWAYHeader xmlns="http://www.eway.com.au/gateway/managedPayment">
   <eWAYCustomerID>87654321</eWAYCustomerID>
   <Username>test@eway.com.au</Username>
   <Password>test123</Password>
 </eWAYHeader>
</soap:Header>
<soap:Body>
<ProcessPayment xmlns="https://www.eway.com.au/gateway/managedpayment">
   <managedCustomerID>9876543211000</managedCustomerID>
   <amount>1000</amount>
   <invoiceReference>Test Inv </invoiceReference>
   <invoiceDescription>Test Description </invoiceDescription>
 </ProcessPayment>
</soap:Body>
```

Successful Response

```
<ProcessPaymentResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<ewayResponse>
<ewayTrxnError>00,Transaction Approved(Test Gateway)</ewayTrxnError>
<ewayTrxnStatus>True</ewayTrxnStatus>
<ewayTrxnNumber>1010358</ewayTrxnNumber>
<ewayReturnAmount>1000</ewayReturnAmount>
<ewayAuthCode>123456</ewayAuthCode>
</ewayResponse>
</ProcessPaymentResponse>
```

OR

```
<ProcessPaymentResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<ewayResponse>
     <ewayTrxnError>Error: Invalid eWAY TEST Gateway account. Your credit card has not
been billed for this transaction.(Test Gateway)</ewayTrxnError>
<ewayTrxnStatus>False</ewayTrxnStatus>
<ewayTrxnNumber>1011138</ewayTrxnNumber>
```

```
<ewayReturnAmount>1000</ewayReturnAmount>
<ewayAuthCode/>
</ewayResponse>
</ProcessPaymentResponse>
```

Failed Response

If Managed Customer ID passed is not valid, it will throw an exception; "*Invalid managedCustomerID.*"

Process Payment With CVN
Request

```
<soap:Header>
 <eWAYHeader xmlns="http://www.eway.com.au/gateway/managedPayment">
  <eWAYCustomerID>87654321</eWAYCustomerID>
  <Username>test@eway.com.au</Username>
  <Password>test123</Password>
 </eWAYHeader>
</soap:Header>
<soap:Body>
<ProcessPayment xmlns="https://www.eway.com.au/gateway/managedpayment">
  <managedCustomerID>9876543211000</managedCustomerID>
  <amount>1000</amount>
  <invoiceReference>Test Inv </invoiceReference>
  <invoiceDescription>Test Description </invoiceDescription>
 <cvn>123</cvn>
 </ProcessPayment>
</soap:Body>
```

Successful Response

```
<ProcessPaymentResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<ewayResponse>
<ewayTrxnError>00,Transaction Approved(Test Gateway)</ewayTrxnError>
<ewayTrxnStatus>True</ewayTrxnStatus>
<ewayTrxnNumber>1010358</ewayTrxnNumber>
```

```
<ewayReturnAmount>1000</ewayReturnAmount>
<ewayAuthCode>123456</ewayAuthCode>
</ewayResponse>
</ProcessPaymentResponse>
```

OR

```
<ProcessPaymentResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<ewayResponse>
        <ewayTrxnError>Error: Invalid eWAY TEST Gateway account. Your credit card has not
been billed for this transaction.(Test Gateway)</ewayTrxnError>
<ewayTrxnStatus>False</ewayTrxnStatus>
<ewayTrxnNumber>1011138</ewayTrxnNumber>
<ewayReturnAmount>1000</ewayReturnAmount>
 <ewayAuthCode/>
 </ewayResponse>
 </ProcessPaymentResponse>
```

Failed Response

If Managed Customer ID passed is not valid, it will throw an exception; "***Invalid managedCustomerID.***"

Query Payment
Request

```
<soap:Header>
  <eWAYHeader xmlns="http://www.eway.com.au/ gateway/managedpayment ">
    <eWAYCustomerID>87654321</eWAYCustomerID>
    <Username>test@eway.com.au</Username>
    <Password>test123</Password>
  </eWAYHeader>
</soap:Header>
<soap:Body>
<QueryPayment xmlns="https://www.eway.com.au/gateway/managedpayment">
    <managedCustomerID>9876543211000</managedCustomerID>
  </QueryPayment>
</soap:Body>
```

Successful Response

```
<QueryPaymentResponse
xmlns="https://www.eway.com.au/gateway/managedpayment">
    <QueryPaymentResult>
      <ManagedTransaction>
        <TotalAmount>10</TotalAmount>
        <Result>0</Result>
        <ResponseText>Approved</ResponseText>
        <TransactionDate>2007-05-10T00:00:00</TransactionDate>
        <ewayTrxnNumber>1000788</ewayTrxnNumber>
      </ManagedTransaction>
      <ManagedTransaction>
        <TotalAmount>101</TotalAmount>
        <Result>1</Result>
        <ResponseText>Declined</ResponseText>
        <TransactionDate>2007-05-10T00:00:00</TransactionDate>
        <ewayTrxnNumber>1000791</ewayTrxnNumber>
      </ManagedTransaction>
      <ManagedTransaction>
        <TotalAmount>101</TotalAmount>
        <Result>1</Result>
        <ResponseText>Declined</ResponseText>
        <TransactionDate>2007-05-10T00:00:00</TransactionDate>
        <ewayTrxnNumber>1000792</ewayTrxnNumber>
      </ManagedTransaction>
```

```
        </QueryPaymentResult>
    </QueryPaymentResponse>
```

Failed Response

If no transaction record found, it will return null value.

```
<QueryPaymentResponse xmlns="https://www.eway.com.au/gateway/managedpayment">
<QueryPaymentResult/>
</QueryPaymentResponse>
```

Appendix C: Test procedures

Testing details

Please make sure you use the following values when testing;

- Test gateway - **https://www.eway.com.au/gateway/ManagedPaymentService/test/managedcreditcardpayment.asmx**
- Test Customer ID – 87654321
- Test Username – **test@eway.com.au**
- Test Password – test123
- Test Credit Card Number – 4444333322221111
- Test ManagedCustomerID – 9876543211000
- Test CVN - 123