# MAGENSA™
A MAGTEK COMPANY

# Magensa Web Services

## Portal Service
## MPPG Portal Service Programmer's Reference Manual

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Magensa Web Services| Portal Service | MPPG Portal Service Programmer's Reference Manual

**Table 0-1 - Revisions**

| Rev Number | Date | Notes |
|---|---|---|
| 10 | 09/08/2017 | Initial release. |
| 20 | 09/09/2020 | Updated |
| 30 | 01/29/2020 | Updated to include Customer Transaction Lookup - TransactionID |

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# Purpose of the document

The purpose of this document is to describe the various operations available in MPPG Portal Service and their required or optional input & output parameters. It also provides sample SOAP request & response as reference for client developers.

MPPG Portal Service enables clients to easily integrate transaction details and transaction receipts from Magensa services into their payment applications.
Clients call MPPG Portal Service operations based on search criteria of amount, date time, transaction type, and transaction id.  The service returns the matched search criteria results to the client as a list of transaction details or a transaction receipt.

# 1　MPPG Portal Service Operations

## 1.1　GetTransactionDetail

This operation retrieves a list where each record contains transaction details. The list returned is a match against the search criteria submitted by the request.

### 1.1.1　INPUT PROPERTIES

| Property (* required) | Type | Description |
| --- | --- | --- |
| AmountFrom ** | Decimal | This is the lower transaction amount limit of the search criteria. A TransactionDetail is not returned when its Amount field is less than AmountFrom. This field is required only if AmountTo is included. |
| AmountTo ** | Decimal | This is the upper transaction amount limit of the search criteria.  A TransactionDetail is not returned when its Amount field is greater than AmountTo.  This field is required only if AmountFrom is included. |
| AuthorizedAmountFrom** | Decimal | This is the lower transaction amount limit of the search criteria.  A TransactionDetail is not returned when its Amount field is less than AuthorizedAmountFrom.  This field is required only if AuthorizedAmountFrom is included. |
| AuthorizedAmountTo** | Decimal | This is the upper transaction amount limit of the search criteria.  A TransactionDetail is not returned when its Amount field is greater than AuthorizedAmountTo.  This field is required only if AuthorizedAmountFrom is included. |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference |
| DeviceSN | String | MagTek device serial number |
| EndDateTime * | DateTime | The end date time for the search criteria in UTC format<br>Not past the current date time based on GMT + 24 hours<br>Not before the StartDateTime field<br>Within last 120 days |

| Property (* required) | Type | Description |
|---|---|---|
| PageBookmarkTransactionID | Integer | Us this as a bookmark to traverse the records.<br>Set the initial value to 0 to retrieve the first page.  For retrieving records beyond the first page, set this field to the ID field returned in the last record.<br>Example:<br>total records range from ID[105, 104, 103, 102]<br>PageSize=2 and PageBookMarkTransactionID=0 returns records<br>[105, 104]<br><br>PageSize=2 and PageBookMarkTransactionID=104 returns records<br>[103, 102]<br><br>PageSize=2 and PageBookMarkTransactionID=103 returns records<br>[102] |
| PageSize | Integer | This is the size of the transaction details list to return after each request.  Set PageSize to a value higher than 0 to retrieve a subset page of records.<br>0 returns all records matching the search criteria in decreasing order.<br>A positive value returns a page of records matching the search criteria in decreasing order.<br>A negative value returns a page of records matching the search criteria in increasing order. |
| ProcessorResponseCode | String | Processor response code mapped to the TransactionStatus field of the returned transaction details |
| StartDateTime * | DateTime | This is the start date time for the search criteria in UTC format.  This field is mapped to the TransactionUTCTimestamp field of the returned transaction details.<br>Not past the current date time based on GMT + 24 hours<br>Not past the EndDateTime field<br>Within last 120 days |
| TransactionType * | String | Transaction type:<br>SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |

Note:  * = Required, ** = Required only as a set.

## 1.1.2 OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AVSResult | String | Address Verification System result from target service provider |
| Amount | Decimal | Amount for transaction in units (dollars or cents) as per target service provider's API. |
| AuthCode | String | Authorized amount from target service provider. |
| CVVResult | String | Card Verification Value result from target service provider. |
| CustomerTransactionID | String | Client-assigned transaction ID from input. |
| DeviceSN | String | MagTek device serial number |
| ID | Long | ID of the transaction detail record. To implement paging, use the value of this field for setting PageBookmarkTransactionID. |
| IsReplay | Boolean | Boolean value indicating prior use of KSN from Magensa. |
| MagMessage | String | Magensa Message for the transaction |
| MagOperation | String | Magensa operation used to process the transaction |
| MagStatus | String | Magensa status code |
| MagTranID | String | Magensa Transaction ID (GUID) |
| MagnePrintScore | Decimal | Magensa MagnePrint score |
| Processor | String | Processor used to process the transaction |
| ReferenceAuthCode | String | Processor reference authorization code |
| ReferenceTransactionID | String | Processor reference Transaction ID |
| TransactionID | String | Transaction ID from target service provider. |
| TransactionInputDetailXML | String | Input details of the transaction |
| TransactionMessage | String | Transaction Message from processor |
| TransactionStatus | String | Transaction status from processor |
| TransactionType | String | Transaction type: SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |
| ZIP | String | Zip code |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionDetail Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e">
    <soapenv:Header/>
    <soapenv:Body>
       <mpp:GetTransactionDetail>
          <!--Optional:-->
          <mpp:GetTransactionDetailRequest>
             <mpp1:AmountFrom>00.00</mpp1:AmountFrom>
             <mpp1:AmountTo>100.00</mpp1:AmountTo>
             <mpp1:Authentication>
                <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
                   <mpp1:Password>password</mpp1:Password>
                   <mpp1:Username>username</mpp1:Username>
             </mpp1:Authentication>
             <!--Optional:-->

<mpp1:AuthorizedAmountFrom>00.00</mpp1:AuthorizedAmountFrom>
             <!--Optional:-->
             <mpp1:AuthorizedAmountTo>100.00</mpp1:AuthorizedAmountTo>
             <!--Optional:-->
          <mpp1:CustomerTransactionID>123</mpp1:CustomerTransactionID>
             <mpp1:DeviceSN></mpp1:DeviceSN>
             <mpp1:EndDateTime>2020-05-
01T10:39:00.000</mpp1:EndDateTime>

<mpp1:PageBookmarkTransactionID>0</mpp1:PageBookmarkTransactionID>
             <mpp1:PageSize>2</mpp1:PageSize>

<mpp1:ProcessorResponseCode>000</mpp1:ProcessorResponseCode>
             <mpp1:StartDateTime>2020-01-
30T15:00:00.000</mpp1:StartDateTime>
             <mpp1:TransactionType>SALE</mpp1:TransactionType>
          </mpp:GetTransactionDetailRequest>
       </mpp:GetTransactionDetail>
    </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionDetail Response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionDetailResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <GetTransactionDetailResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:CustomerTransactionID>123</a:CustomerTransactionID>
            <a:MagTranID>ab012c49-e6e7-4862-aea8-
9e07fcc2ce80</a:MagTranID>
            <a:TransactionDetails>
               <a:TransactionDetail>
                  <a:AVSResult>Z</a:AVSResult>
                  <a:Amount>2.0000</a:Amount>
                  <a:AuthCode>OK2112</a:AuthCode>
                  <a:AuthorizedAmount>2.0000</a:AuthorizedAmount>
                  <a:CVVResult i:nil="true"/>
                  <a:CustomerTransactionID>MPPGv3
ProcessKeyPadEntry</a:CustomerTransactionID>
                  <a:DeviceSN>B487DBC022119AA</a:DeviceSN>
                  <a:ID>88338725</a:ID>
                  <a:IsReplay i:nil="true"/>
                  <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                  <a:MagOperation>ProcessKeyPadEntry</a:MagOperation>
                  <a:MagStatus>1000</a:MagStatus>
                  <a:MagTranID>829af53e-04c0-4024-b2ad-
d82c0e12f6ba</a:MagTranID>
                  <a:MagnePrintScore i:nil="true"/>
                  <a:PANLast4 i:nil="true"/>
                  <a:Processor>Rapid Connect v3 - Pilot</a:Processor>
                  <a:ReferenceAuthCode i:nil="true"/>
                  <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>

<a:TransactionID>010122387993944G765</a:TransactionID>
                  <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                  <a:TransactionStatus>000</a:TransactionStatus>
                  <a:TransactionType>SALE</a:TransactionType>
                  <a:TransactionUTCTimestamp>2020-05-
01T04:18:38.837</a:TransactionUTCTimestamp>
                  <a:ZIP>12345</a:ZIP>
               </a:TransactionDetail>
               <a:TransactionDetail>
                  <a:AVSResult>Z</a:AVSResult>
                  <a:Amount>2.0000</a:Amount>
                  <a:AuthCode>OK1759</a:AuthCode>
```

```
                    <a:AuthorizedAmount>2.0000</a:AuthorizedAmount>
                    <a:CVVResult i:nil="true"/>
                    <a:CustomerTransactionID>MPPGv3
ProcessKeyPadEntry</a:CustomerTransactionID>
                    <a:DeviceSN>992720E117121810</a:DeviceSN>
                    <a:ID>86620470</a:ID>
                    <a:IsReplay i:nil="true"/>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessKeyPadEntry</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>51699087-481b-4cb8-a852-
f9c10ca39bff</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4 i:nil="true"/>
                    <a:Processor>Rapid Connect v3 - Pilot</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>

<a:TransactionID>010112035494038G156</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>SALE</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-04-
21T11:14:18.863</a:TransactionUTCTimestamp>
                    <a:ZIP>12345</a:ZIP>
                </a:TransactionDetail>
            </a:TransactionDetails>
            <a:TransactionUTCTimestamp>2020-05-01
04:19:01Z</a:TransactionUTCTimestamp>
        </GetTransactionDetailResult>
     </GetTransactionDetailResponse>
   </s:Body>
</s:Envelope>
```

## 1.2    GetTransactionReceipt

This operation retrieves a receipt of a transaction returned from a GetTransactionDetail request.  The response includes a TransactionReceiptURL which displays the receipt.  Any signature capture sent with the request to GetTransactionReceipt is included with the returned receipt.

### 1.2.1   INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| Latitude * | String | Latitude component of the geographical coordinate location |
| Longitude * | String | Longitude component of the geographical coordinate location |
| SignatureAsBase64String | String | Signature captured during the transaction encoded in base64 format |
| TransactionID * | Integer | TransactionID for a record returned from GetTransactionDetail |
| TransactionType * | String | TransactionType for a record returned from GetTransactionDetail |

Note:  * = Required

### 1.2.2   OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| ReceiptEmailBCC | String | Blind carbon copy email address to send the Transaction Receipt URL |
| ReceiptEmailCC | String | Carbon copy email address to send the Transaction Receipt URL |
| ReceiptEmailMessage | String | Email message to send |
| ReceiptMMSMessage | String | Email message to send to MMS |
| TransactionReceiptURL | String | This is the URL of the receipt.  The value of this field is generated only once for a given TransansactionID.  Any signature captures to embed in the receipt must be included the first call to GetTransactionReceipt. |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionReceipt Request:

```xml
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionReceipt>
         <!--Optional:-->
         <mpp:GetTransactionReceiptRequest>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
                  <mpp1:Password>username</mpp1:Password>
                  <mpp1:Username>password</mpp1:Username>
            </mpp1:Authentication>
            <!--Optional:-->
            <mpp1:CustomerTransactionID>?</mpp1:CustomerTransactionID>
            <!--Optional:-->
            <mpp1:Latitude>33</mpp1:Latitude>
            <!--Optional:-->
            <mpp1:Longitude>-118</mpp1:Longitude>
            <!--Optional:-->

<mpp1:SignatureAsBase64String></mpp1:SignatureAsBase64String>

<mpp1:TransactionID>010122387993944G765</mpp1:TransactionID>
            <mpp1:TransactionType>SALE</mpp1:TransactionType>
         </mpp:GetTransactionReceiptRequest>
      </mpp:GetTransactionReceipt>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionReceipt Response:

```
HTTP/1.1 200 OK
Cache-Control: private
Content-Type: text/xml; charset=utf-8
Content-Encoding: gzip
Vary: Accept-Encoding
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionReceiptResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <GetTransactionReceiptResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:CustomerTransactionID>?</a:CustomerTransactionID>
            <a:MagTranID>bb7797c9-4521-4f20-a611-
4e7a3cd71ac9</a:MagTranID>
            <a:ReceiptEmailBCC/>
            <a:ReceiptEmailCC/>
            <a:ReceiptEmailMessage/>
            <a:ReceiptMMSMessage/>
<a:TransactionReceiptURL>https://customers.magensa.net/receipts/2020-
05-01/00321ef1-4227-40b6-a0fc-
5696a4c204b7.html</a:TransactionReceiptURL>
            <a:TransactionUTCTimestamp>2020-05-01
11:17:38Z</a:TransactionUTCTimestamp>
         </GetTransactionReceiptResult>
      </GetTransactionReceiptResponse>
   </s:Body>
</s:Envelope>
```

## 1.3    GetOneLineTransactionSummaryForReseller

### 1.3.1    INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| EndDateTime | String | End Date for Transactions to fetch to |
| ResellerID | Int | Reseller Id |
| StartDateTime | String | Start Date Transactions to fetch from |

Note:  * = Required

## 1.3.2  OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| AuthorizeCount | Integer | Authorize Count |
| AuthorizeTotal | Decimal | Authorize Total |
| CaptureCount | Integer | Capture Count |
| CaptureTotal | Decimal | Capture Total |
| EMVRejectCount | Integer | EMVReject Count |
| EMVRejectTotal | Decimal | EMVReject Total |
| ForceCount | Integer | Force Count |
| ForceTotal | Decimal | Force Total |
| RefundCount | Integer | Refund Count |
| RefundTotal | Decimal | Refund Total |
| SalesCount | Integer | Sales Count |
| SalesTotal | Decimal | Sales Total |
| TokenCount | Integer | Token Count |
| TokenTotal | Decimal | Token Total |
| VoidCount | Integer | Void Count |
| VoidTotal | Decimal | Void Total |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetOneLineTransactionSummaryForReseller Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
    <soapenv:Header/>
    <soapenv:Body>
        <mpp:GetOneLineTransactionSummaryForReseller>
            <!--Optional:-->
            <mpp:GetOneLineTransactionSummaryForResellerRequest>
                <!--Optional:-->
                <mpp1:AdditionalRequestData>
                    <!--Zero or more repetitions:-->
                    <sys:KeyValuePairOfstringstring>
                        <sys:key>?</sys:key>
                        <sys:value>?</sys:value>
                    </sys:KeyValuePairOfstringstring>
                </mpp1:AdditionalRequestData>
                <mpp1:Authentication>
                <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
               <mpp1:Password>password</mpp1:Password>
                <mpp1:Username>username</mpp1:Username>
                 </mpp1:Authentication>
                 <mpp1:CustomerTransactionID>?</mpp1:CustomerTransactionID>
                 <mpp1:EndDateTime>2020-03-08T00:00:00</mpp1:EndDateTime>
                 <mpp1:ResellerID>10440</mpp1:ResellerID>
                 <mpp1:StartDateTime>2020-01-
08T00:00:00</mpp1:StartDateTime>
            </mpp:GetOneLineTransactionSummaryForResellerRequest>
        </mpp:GetOneLineTransactionSummaryForReseller>
    </soapenv:Body>
</soapenv:Envelope>
```

GetOneLineTransactionSummaryForReseller Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <GetOneLineTransactionSummaryForResellerResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
            <GetOneLineTransactionSummaryForResellerResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
                <a:CustomerTransactionID>?</a:CustomerTransactionID>
                <a:MagTranID>ee9e56f6-b3c9-4088-be1c-
7b339ca63854</a:MagTranID>
                <a:TransactionSummary>
```

```
                <a:AuthorizeCount>0</a:AuthorizeCount>
                <a:AuthorizeTotal>0.0000</a:AuthorizeTotal>
                <a:CaptureCount>0</a:CaptureCount>
                <a:CaptureTotal>0.0000</a:CaptureTotal>
                <a:EMVRejectCount>0</a:EMVRejectCount>
                <a:EMVRejectTotal>0.0000</a:EMVRejectTotal>
                <a:ForceCount>0</a:ForceCount>
                <a:ForceTotal>0.0000</a:ForceTotal>
                <a:RefundCount>0</a:RefundCount>
                <a:RefundTotal>0.0000</a:RefundTotal>
                <a:SalesCount>0</a:SalesCount>
                <a:SalesTotal>0.0000</a:SalesTotal>
                <a:TokenCount>0</a:TokenCount>
                <a:TokenTotal>0.0000</a:TokenTotal>
                <a:VoidCount>0</a:VoidCount>
                <a:VoidTotal>0.0000</a:VoidTotal>
            </a:TransactionSummary>
            <a:TransactionUTCTimestamp>2020-05-06
07:36:12Z</a:TransactionUTCTimestamp>
          </GetOneLineTransactionSummaryForResellerResult>
       </GetOneLineTransactionSummaryForResellerResponse>
    </s:Body>
</s:Envelope>
```

## 1.4    GetTransactionByMagTranID

### 1.4.1   INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| ResellerID * | Integer | Reseller ID |
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |

Note:  * = Required

### 1.4.2   OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| AVSResult | String | Address Verification System result from target service provider |
| Amount | Decimal | Amount for transaction in units (dollars or cents) as per target service provider's API. |
| AuthCode | String | Authorized amount from target service provider. |
| CVVResult | String | Card Verification Value result from target service provider. |
| DeviceSN | String | MagTek device serial number |
| ID | Long | ID of the transaction detail record.  To implement paging, use the value of this field for setting PageBookmarkTransactionID. |
| IsReplay | Boolean | Boolean value indicating prior use of KSN from Magensa. |
| MagMessage | String | Magensa Message for the transaction |
| MagOperation | String | Magensa operation used to process the transaction |
| MagStatus | String | Transaction timestamp from Magensa |
| MagnePrintScore | Decimal | Magensa MagnePrint score |

| Property | Type | Description |
|---|---|---|
| PANLast4 | Ineger | |
| Processor | String | Processor used to process the transaction |
| ReferenceAuthCode | String | Processor reference authorization code |
| ReferenceTransactionID | String | Processor reference Transaction ID |
| ResellerCanVoidRefund | Boolean | Boolean input for Reseller Can Void Refund a transaction |
| TransactionID | String | Transaction ID from target service provider. |
| TransactionInputDetailXML | String | Input details of the transaction |
| TransactionMessage | String | Transaction Message from processor |
| TransactionStatus | String | Transaction status from processor |
| TransactionType | String | Transaction type: SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionByMagTranID Request:

```xml
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionByMagTranID>
         <!--Optional:-->
         <mpp:GetTransactionByMagTranIDRequest>
            <!--Optional:-->
            <mpp1:AdditionalRequestData>
               <!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
                  <sys:key>?</sys:key>
                  <sys:value>?</sys:value>
               </sys:KeyValuePairOfstringstring>
            </mpp1:AdditionalRequestData>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
               <mpp1:Password>password</mpp1:Password>
               <mpp1:Username>username</mpp1:Username>
            </mpp1:Authentication>
            <!--Optional:-->
            <mpp1:CustomerTransactionID></mpp1:CustomerTransactionID>
```

```
            <mpp1:MagTranID>95327554-3453-435d-ba79-
002b24a5a548</mpp1:MagTranID>
            <!--Optional:-->
            <mpp1:ResellerID>10103</mpp1:ResellerID>
        </mpp:GetTransactionByMagTranIDRequest>
    </mpp:GetTransactionByMagTranID>
  </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionByMagTranID Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionByMagTranIDResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <GetTransactionByMagTranIDResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
            <a:CustomerTransactionID/>
            <a:MagTranID>020986b1-9bcd-4992-a358-
f56e11883ab3</a:MagTranID>
            <a:TransactionDetail>
                <a:AVSResult i:nil="true"/>
                <a:Amount>58.2700</a:Amount>
                <a:AuthCode>463030</a:AuthCode>
                <a:AuthorizedAmount>58.2700</a:AuthorizedAmount>
                <a:CVVResult i:nil="true"/>
                <a:CustomerTransactionID i:nil="true"/>
                <a:DeviceSN i:nil="true"/>
                <a:ID>146758</a:ID>
                <a:IsReplay>false</a:IsReplay>
                <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                <a:MagStatus>1000</a:MagStatus>
                <a:MagTranID>95327554-3453-435d-ba79-
002b24a5a548</a:MagTranID>
                <a:MagnePrintScore i:nil="true"/>
                <a:PANLast4>1111</a:PANLast4>
                <a:Processor>Rapid Connect v3 -
Production</a:Processor>
                <a:ReferenceAuthCode i:nil="true"/>
                <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                <a:TransactionID>3073646147052335CPN</a:TransactionID>
                <a:TransactionInputDetailXML i:nil="true"/>
                <a:TransactionMessage>APPROVAL</a:TransactionMessage>
```

```
                <a:TransactionStatus>000</a:TransactionStatus>
                <a:TransactionType>SALE</a:TransactionType>
                <a:TransactionUTCTimestamp>2020-07-
30T17:04:30.46</a:TransactionUTCTimestamp>
                <a:ZIP i:nil="true"/>
            </a:TransactionDetail>
            <a:TransactionUTCTimestamp>2020-08-26
05:58:57Z</a:TransactionUTCTimestamp>
          </GetTransactionByMagTranIDResult>
      </GetTransactionByMagTranIDResponse>
    </s:Body>
</s:Envelope>
```

## 1.5   GetTransactionReportColumns

### 1.5.1   INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| | | |

Note:   * = Required

### 1.5.2   OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| TransactionReportColumns | Array of Strings | Transaction Report Column names |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionReportColumns Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionReportColumns>
         <!--Optional:-->
         <mpp:GetTransactionReportColumnsRequest>
            <!--Optional:-->
            <mpp1:AdditionalRequestData>
               <!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
                  <sys:key>?</sys:key>
                  <sys:value>?</sys:value>
               </sys:KeyValuePairOfstringstring>
            </mpp1:AdditionalRequestData>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
                  <mpp1:Password>password</mpp1:Password>
                  <mpp1:Username>username</mpp1:Username>
            </mpp1:Authentication>
            <!--Optional:-->
            <mpp1:CustomerTransactionID>?</mpp1:CustomerTransactionID>
         </mpp:GetTransactionReportColumnsRequest>
      </mpp:GetTransactionReportColumns>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionReportColumns Response:

```xml
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
       <GetTransactionReportColumnsResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
          <GetTransactionReportColumnsResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
             <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
             <a:CustomerTransactionID>?</a:CustomerTransactionID>
             <a:MagTranID>01075e8c-0335-4b15-99f7-
353deb28c8b0</a:MagTranID>
             <a:TransactionReportColumns
xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
                <b:string>TransactionUTCTimestamp</b:string>
                <b:string>CustomerTransactionID</b:string>
                <b:string>TransactionType</b:string>
<b:string>Amount</b:string>
                <b:string>AuthorizedAmount</b:string>
                <b:string>Processor</b:string>
                <b:string>TransactionID</b:string>

                <b:string>TransactionStatus</b:string>
                <b:string>TransactionMessage</b:string>
                <b:string>AuthCode</b:string>
                <b:string>AVSResult</b:string>
                <b:string>CVVResult</b:string>
                <b:string>MagOperation</b:string>
                <b:string>MagTranID</b:string>
                <b:string>MagStatus</b:string>
                <b:string>MagMessage</b:string>
                <b:string>PScore</b:string>
                <b:string>IsReplay</b:string>
                <b:string>ReferenceTransactionID</b:string>
<b:string>ReferenceAuthCode</b:string>
<b:string>ZIP</b:string>
                <b:string>TransactionInputDetailXML</b:string>
                <b:string>DeviceSN</b:string>
                <b:string>PANLast</b:string>
             </a:TransactionReportColumns>
             <a:TransactionUTCTimestamp>2020-05-01
11:28:18Z</a:TransactionUTCTimestamp>
          </GetTransactionReportColumnsResult>
       </GetTransactionReportColumnsResponse>
    </s:Body>
</s:Envelope>
```

## 1.6 GetTransactionsByCustomerAndDateRange

### 1.6.1 INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| AmountFromFilter * | String | Amount from Filter |
| AmountToFilter * | String | Amount To Filter |
| CustomerID * | Integer | Customer id value |
| CustomerShardByte * | Byte | CustomerShardByte value |
| CustomerTransactionIDFilter | String | CustomerTransactionID Filter |
| DeviceSNFilter | String | DeviceSN Filter |
| EndDateTime * | String | Valid End Date |
| MagTranIDFilter | String | MagTranID Filter |
| PANLast4Filter | Integer | PANLast4 digits to Filter |
| PageNumber | Integer | Number of the page to show |
| PageSize * | Integer | This is the size of the transaction details list to return after each request.  Set PageSize to a value higher than 0 to retrieve a subset page of records.<br>0 returns all records matching the search criteria in decreasing order.<br>A positive value returns a page of records matching the search criteria in decreasing order.<br>A negative value returns a page of records matching the search criteria in increasing order |
| ResellerID * | Integer | Reseller ID |
| SortBy | Integer | SortBy values range from 21- 43 |
| StartDateTime | String | Valid Start Date |
| TransactionTypeListFilter | String | TransactionType<br>SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |

Note:  * = Required

## 1.6.2  OUTPUT PROPERTIES

| Property | Type | Description |
|----------|------|-------------|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| MaxPageSize | String | Max  Page size |
| TotalRowCount | String | TotalRowCount |
| AVSResult | String | Address Verification System result from target service provider |
| Amount | Decimal | Amount for transaction in units (dollars or cents) as per target service provider's API. |
| AuthorizedAmount | Decimal | Amount authorized |
| AuthCode | String | Authorized Code from target service provider. |
| CVVResult | String | Card Verification Value result from target service provider. |
| CustomerTransactionID | String | Client-assigned transaction ID from input. |
| DeviceSN | String | MagTek device serial number |
| ID | Long | ID of the transaction detail record. |
| IsReplay | Boolean | Boolean value indicating prior use of KSN from Magensa. |
| MagMessage | String | Magensa Message for the transaction |
| MagOperation | String | Magensa operation used to process the transaction |
| MagStatus | String | Magensa status |
| MagTranID | String | Magensa Transaction ID (GUID) |
| MagnePrintScore | Decimal | Magensa MagnePrint score |
| PANLast4 | Integer | PANLast4 digits to Filter |
| Processor | String | Processor used to process the transaction |
| ReferenceAuthCode | String | Processor reference authorization code |
| ReferenceTransactionID | String | Processor reference Transaction ID |
| ResellerCanVoidRefund | Boolean | Boolean input for Reseller Can Void Refund a transaction |
| TransactionID | String | Transaction ID from target service provider. |
| TransactionInputDetailXML | String | Input details of the transaction |
| TransactionMessage | String | Transaction Message from processor |
| TransactionStatus | String | Transaction status from processor |

| Property | Type | Description |
|---|---|---|
| TransactionType | String | Transaction type:<br>SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |
| ZIP | Integer | ZIP code |

GetTransactionsByCustomerAndDateRange Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionsByCustomerAndDateRange
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <!--Optional:-->
         <mpp:GetTransactionsByCustomerAndDateRangeRequest
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <!--Optional:-->
            <mpp1:AdditionalRequestData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"><!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
                  <sys:key>?</sys:key>
                  <sys:value>?</sys:value>
               </sys:KeyValuePairOfstringstring>
            </mpp1:AdditionalRequestData>
            <!--Optional:-->
            <mpp1:AmountFromFilter i:nil="true"/>
            <!--Optional:-->
            <mpp1:AmountToFilter i:nil="true"/>
            <!--Optional:-->
            <mpp1:AuthCodeFilter i:nil="true"/>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
               <mpp1:Password>password</mpp1:Password>
               <mpp1:Username>username</mpp1:Username>
            </mpp1:Authentication>
            <!--Optional:-->
            <mpp1:CustomerID>CustomerId</mpp1:CustomerID>
            <!--Optional:-->
            <mpp1:CustomerShardByte>69</mpp1:CustomerShardByte>
            <!--Optional:-->
            <mpp1:CustomerTransactionID i:nil="true"/>
```

```
              <!--Optional:-->
              <mpp1:CustomerTransactionIDFilter i:nil="true"/>
              <!--Optional:-->
              <mpp1:DeviceSNFilter i:nil="true"/>
              <!--Optional:-->
              <mpp1:EndDateTime>2020-08-14T23:59:59</mpp1:EndDateTime>
              <!--Optional:-->
              <mpp1:MagTranIDFilter i:nil="true"/>
              <!--Optional:-->
              <mpp1:PANLast4Filter i:nil="true"/>
              <!--Optional:-->
              <mpp1:PageNumber>1</mpp1:PageNumber>
              <!--Optional:-->
              <mpp1:PageSize>10</mpp1:PageSize>
              <!--Optional:-->
              <mpp1:ResellerID>10103</mpp1:ResellerID>
              <!--Optional:-->
              <mpp1:SortBy>34</mpp1:SortBy>
              <!--Optional:-->
              <mpp1:StartDateTime>2020-07-
01T00:00:00</mpp1:StartDateTime>
              <!--Optional:-->

<mpp1:TransactionTypeListFilter>SALE,AUTHORIZE,CAPTURE,VOID,REFUND,FOR
CE,EMV_REJECT,TOKEN,REPORT</mpp1:TransactionTypeListFilter>
          </mpp:GetTransactionsByCustomerAndDateRangeRequest>
        </mpp:GetTransactionsByCustomerAndDateRange>
    </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionsByCustomerAndDateRange Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <GetTransactionsByCustomerAndDateRangeResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
          <GetTransactionsByCustomerAndDateRangeResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
              <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
              <a:CustomerTransactionID i:nil="true"/>
              <a:MagTranID>e15861dc-01fa-43a9-82a9-
0526244d97ac</a:MagTranID>
              <a:MaxPageSize>1012</a:MaxPageSize>
              <a:TotalRowCount>10118</a:TotalRowCount>
              <a:TransactionDetails>
                  <a:TransactionDetail>
                      <a:AVSResult i:nil="true"/>
                      <a:Amount>2.3900</a:Amount>
```

```
                        <a:AuthCode>413668</a:AuthCode>
                        <a:AuthorizedAmount>2.3900</a:AuthorizedAmount>
                        <a:CVVResult i:nil="true"/>
                        <a:CustomerTransactionID i:nil="true"/>
                        <a:DeviceSN i:nil="true"/>
                        <a:ID>127500</a:ID>
                        <a:IsReplay>false</a:IsReplay>
                        <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                        <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                        <a:MagStatus>1000</a:MagStatus>
                        <a:MagTranID>64b5832e-bb4e-4921-86db-
00041e6fb6d7</a:MagTranID>
                        <a:MagnePrintScore i:nil="true"/>
                        <a:PANLast4>5584</a:PANLast4>
                        <a:Processor>Rapid Connect v3 -
Production</a:Processor>
                        <a:ReferenceAuthCode i:nil="true"/>
                        <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>

<a:TransactionID>307344764504485WNFJ</a:TransactionID>
                        <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                        <a:TransactionStatus>000</a:TransactionStatus>
                        <a:TransactionType>SALE</a:TransactionType>
                        <a:TransactionUTCTimestamp>2020-07-
10T21:14:11.49</a:TransactionUTCTimestamp>
                        <a:ZIP i:nil="true"/>
                    </a:TransactionDetail>
                    <a:TransactionDetail>
                        <a:AVSResult i:nil="true"/>
                        <a:Amount i:nil="true"/>
                        <a:AuthCode i:nil="true"/>
                        <a:AuthorizedAmount i:nil="true"/>
                        <a:CVVResult i:nil="true"/>
                        <a:CustomerTransactionID i:nil="true"/>
                        <a:DeviceSN i:nil="true"/>
                        <a:ID>119739</a:ID>
                        <a:IsReplay>false</a:IsReplay>
                        <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                        <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                        <a:MagStatus>1000</a:MagStatus>
                        <a:MagTranID>f5e36a12-5d34-46e4-bd0e-
000ae8b12239</a:MagTranID>
                        <a:MagnePrintScore i:nil="true"/>
                        <a:PANLast4>3455</a:PANLast4>
                        <a:Processor>Token</a:Processor>
                        <a:ReferenceAuthCode i:nil="true"/>
```

```
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID>3fbe1a9c-763b-4f88-a23d-
f2cdcd1c6bc6</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage>000</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>TOKEN</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-07-
02T15:22:05.05</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount i:nil="true"/>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount i:nil="true"/>
                    <a:CVVResult i:nil="true"/>
                    <a:CustomerTransactionID i:nil="true"/>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>126920</a:ID>
                    <a:IsReplay>false</a:IsReplay>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessCardSwipe</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>4fda79fd-b479-4157-b2a9-
0010b3ca5482</a:MagTranID>
                    <a:MagnePrintScore>0.90922370</a:MagnePrintScore>
                    <a:PANLast4 i:nil="true"/>
                    <a:Processor>Token</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID>4d4152ad-cc92-4783-9830-
2205ee8f5e7b</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage>000</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>TOKEN</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-07-
10T17:35:33.67</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount i:nil="true"/>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount i:nil="true"/>
                    <a:CVVResult i:nil="true"/>
```

```
<a:CustomerTransactionID>ProcessManualEntry</a:CustomerTransactionID>
                <a:DeviceSN i:nil="true"/>
                <a:ID>136459</a:ID>
                <a:IsReplay i:nil="true"/>
                <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                <a:MagOperation>ProcessManualEntry</a:MagOperation>
                <a:MagStatus>1000</a:MagStatus>
                <a:MagTranID>b4c603ec-2a45-49b7-ac87-
00116dcb2b0d</a:MagTranID>
                <a:MagnePrintScore i:nil="true"/>
                <a:PANLast4>5533</a:PANLast4>
                <a:Processor>Token</a:Processor>
                <a:ReferenceAuthCode i:nil="true"/>
                <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                <a:TransactionID>52163c40-909a-454c-b7ba-
230b8f26d1e9</a:TransactionID>
                <a:TransactionInputDetailXML i:nil="true"/>
                <a:TransactionMessage>000</a:TransactionMessage>
                <a:TransactionStatus>000</a:TransactionStatus>
                <a:TransactionType>TOKEN</a:TransactionType>
                <a:TransactionUTCTimestamp>2020-07-
23T01:52:21.22</a:TransactionUTCTimestamp>
                <a:ZIP i:nil="true"/>
            </a:TransactionDetail>
            <a:TransactionDetail>
                <a:AVSResult i:nil="true"/>
                <a:Amount>57.7400</a:Amount>
                <a:AuthCode>602688</a:AuthCode>
                <a:AuthorizedAmount>57.7400</a:AuthorizedAmount>
                <a:CVVResult i:nil="true"/>
                <a:CustomerTransactionID i:nil="true"/>
                <a:DeviceSN i:nil="true"/>
                <a:ID>126867</a:ID>
                <a:IsReplay>false</a:IsReplay>
                <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                <a:MagStatus>1000</a:MagStatus>
                <a:MagTranID>e870bf77-c926-4fd2-9194-
0023210bcec9</a:MagTranID>
                <a:MagnePrintScore i:nil="true"/>
                <a:PANLast4>3455</a:PANLast4>
                <a:Processor>Rapid Connect v3 -
Production</a:Processor>
                <a:ReferenceAuthCode i:nil="true"/>
                <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
```

```
<a:TransactionID>387344608531164Z6DL</a:TransactionID>
                <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                <a:TransactionStatus>000</a:TransactionStatus>
                <a:TransactionType>SALE</a:TransactionType>
                <a:TransactionUTCTimestamp>2020-07-
10T16:54:13.783</a:TransactionUTCTimestamp>
                <a:ZIP i:nil="true"/>
            </a:TransactionDetail>
            <a:TransactionDetail>
                <a:AVSResult i:nil="true"/>
                <a:Amount>58.2700</a:Amount>
                <a:AuthCode>463030</a:AuthCode>
                <a:AuthorizedAmount>58.2700</a:AuthorizedAmount>
                <a:CVVResult i:nil="true"/>
                <a:CustomerTransactionID i:nil="true"/>
                <a:DeviceSN i:nil="true"/>
                <a:ID>146758</a:ID>
                <a:IsReplay>false</a:IsReplay>
                <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                <a:MagStatus>1000</a:MagStatus>
                <a:MagTranID>95327554-3453-435d-ba79-
002b24a5a548</a:MagTranID>
                <a:MagnePrintScore i:nil="true"/>
                <a:PANLast4>1111</a:PANLast4>
                <a:Processor>Rapid Connect v3 -
Production</a:Processor>
                <a:ReferenceAuthCode i:nil="true"/>
                <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>

<a:TransactionID>3073646147052335CPN</a:TransactionID>
                <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                <a:TransactionStatus>000</a:TransactionStatus>
                <a:TransactionType>SALE</a:TransactionType>
                <a:TransactionUTCTimestamp>2020-07-
30T17:04:30.46</a:TransactionUTCTimestamp>
                <a:ZIP i:nil="true"/>
            </a:TransactionDetail>
            <a:TransactionDetail>
                <a:AVSResult i:nil="true"/>
                <a:Amount i:nil="true"/>
                <a:AuthCode i:nil="true"/>
                <a:AuthorizedAmount i:nil="true"/>
                <a:CVVResult i:nil="true"/>
```

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```
                    <a:CustomerTransactionID i:nil="true"/>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>123102</a:ID>
                    <a:IsReplay>false</a:IsReplay>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>12917bc0-1c25-4f6c-a6a3-
002ddbdf31dd</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4>5584</a:PANLast4>
                    <a:Processor>Token</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID>d818dbcc-f268-4ca8-a2d2-
8b68323d339a</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage>000</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>TOKEN</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-07-
04T23:24:51.35</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount>4.0000</a:Amount>
                    <a:AuthCode>023580</a:AuthCode>
                    <a:AuthorizedAmount>4.0000</a:AuthorizedAmount>
                    <a:CVVResult i:nil="true"/>
                    <a:CustomerTransactionID i:nil="true"/>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>137657</a:ID>
                    <a:IsReplay>false</a:IsReplay>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>e1f81237-7302-4db3-af09-
002e93a29537</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4>0005</a:PANLast4>
                    <a:Processor>Rapid Connect v3 -
Production</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
```

```
<a:TransactionID>587357800269390B6Z8</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>

<a:TransactionMessage>APPROVAL</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>SALE</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-07-
23T22:13:47.113</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount i:nil="true"/>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount i:nil="true"/>
                    <a:CVVResult i:nil="true"/>
                    <a:CustomerTransactionID i:nil="true"/>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>145959</a:ID>
                    <a:IsReplay>false</a:IsReplay>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>3d902de4-5aa9-40c2-bf94-
003148b46d71</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4>3455</a:PANLast4>
                    <a:Processor>Token</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>
<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID>ec7bb508-2941-4422-8afb-
10067e17ac12</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage>000</a:TransactionMessage>
                    <a:TransactionStatus>000</a:TransactionStatus>
                    <a:TransactionType>TOKEN</a:TransactionType>
                    <a:TransactionUTCTimestamp>2020-07-
30T00:09:27.55</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount i:nil="true"/>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount i:nil="true"/>
                    <a:CVVResult i:nil="true"/>
                    <a:CustomerTransactionID i:nil="true"/>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>140338</a:ID>
```

```
                <a:IsReplay>false</a:IsReplay>
                <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                <a:MagOperation>ProcessEMVSRED</a:MagOperation>
                <a:MagStatus>1000</a:MagStatus>
                <a:MagTranID>7cab395c-de15-48cd-9a14-
0031e481d80e</a:MagTranID>
                <a:MagnePrintScore i:nil="true"/>
                <a:PANLast4>1111</a:PANLast4>
                <a:Processor>Token</a:Processor>
                <a:ReferenceAuthCode i:nil="true"/>
                <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                <a:TransactionID>ad7988c6-132b-466f-a962-
0dad57245288</a:TransactionID>
                <a:TransactionInputDetailXML i:nil="true"/>
                <a:TransactionMessage>000</a:TransactionMessage>
                <a:TransactionStatus>000</a:TransactionStatus>
                <a:TransactionType>TOKEN</a:TransactionType>
                <a:TransactionUTCTimestamp>2020-07-
27T18:16:34.853</a:TransactionUTCTimestamp>
                <a:ZIP i:nil="true"/>
              </a:TransactionDetail>
          </a:TransactionDetails>
          <a:TransactionUTCTimestamp>2020-08-26
07:59:20Z</a:TransactionUTCTimestamp>
        </GetTransactionsByCustomerAndDateRangeResult>
      </GetTransactionsByCustomerAndDateRangeResponse>
   </s:Body>
</s:Envelope>
```

## 1.7    GetTransactionSummaryForCustomer

### 1.7.1   INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| CustomerID * | Integer | Customer id value |
| CustomerShardByte * | integer | CustomerShardByte value |
| EndDateTime * | String | Valid End Date |
| ResellerID * | Integer | Reseller Id |
| StartDateTime * | String | Valid Start Date |
|  |  |  |

Note:   * = Required

### 1.7.2  OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| AuthorizeCount | Integer | Authorize Count |
| AuthorizeTotal | Decimal | Authorize Total |
| CaptureCount | Integer | Capture Count |
| CaptureTotal | Decimal | Capture Total |
| EMVRejectCount | Integer | EMVReject Count |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |
| EMVRejectTotal | Decimal | EMVReject Total |
| ForceCount | Integer | Force Count |
| ForceTotal | Decimal | Force Total |
| RefundCount | Integer | Refund Count |
| RefundTotal | Decimal | Refund Total |
| SalesCount | Integer | Sales Count |
| SalesTotal | Decimal | Sales Total |
| TokenCount | Integer | Token Count |
| TokenTotal | Decimal | Token Total |
| VoidCount | Integer | Void Count |
| VoidTotal | Decimal | Void Total |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionSummaryForCustomer Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionSummaryForCustomer>
         <!--Optional:-->
         <mpp:GetTransactionSummaryForCustomerRequest>
            <!--Optional:-->
            <mpp1:AdditionalRequestData>
               <!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
                   <sys:key>?</sys:key>
                   <sys:value>?</sys:value>
               </sys:KeyValuePairOfstringstring>
            </mpp1:AdditionalRequestData>
            <mpp1:Authentication>
              <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
                   <mpp1:Password>password</mpp1:Password>
                   <mpp1:Username>username</mpp1:Username>
            </mpp1:Authentication>
            <mpp1:CustomerID>CustomerId</mpp1:CustomerID>
            <mpp1:CustomerShardByte>42</mpp1:CustomerShardByte>
            <!--Optional:-->
            <mpp1:CustomerTransactionID>?</mpp1:CustomerTransactionID>
            <mpp1:EndDateTime>2020-04-09T23:59:59</mpp1:EndDateTime>
            <mpp1:ResellerID>10003</mpp1:ResellerID>
            <mpp1:StartDateTime>2020-01-
08T00:00:00</mpp1:StartDateTime>
         </mpp:GetTransactionSummaryForCustomerRequest>
      </mpp:GetTransactionSummaryForCustomer>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionSummaryForCustomer Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <GetTransactionSummaryForCustomerResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
            <GetTransactionSummaryForCustomerResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
                <a:CustomerTransactionID>?</a:CustomerTransactionID>
                <a:MagTranID>108bb007-c09a-478c-aa38-
d4247194934c</a:MagTranID>
                <a:TransactionSummary>
                    <a:AuthorizeCount>0</a:AuthorizeCount>
                    <a:AuthorizeTotal>0.0000</a:AuthorizeTotal>
                    <a:CaptureCount>0</a:CaptureCount>
                    <a:CaptureTotal>0.0000</a:CaptureTotal>
                    <a:EMVRejectCount>0</a:EMVRejectCount>
                    <a:EMVRejectTotal>0.0000</a:EMVRejectTotal>
                    <a:ForceCount>0</a:ForceCount>
                    <a:ForceTotal>0.0000</a:ForceTotal>
                    <a:RefundCount>0</a:RefundCount>
                    <a:RefundTotal>0.0000</a:RefundTotal>
                    <a:SalesCount>0</a:SalesCount>
                    <a:SalesTotal>0.0000</a:SalesTotal>
                    <a:TokenCount>0</a:TokenCount>
                    <a:TokenTotal>0.0000</a:TokenTotal>
                    <a:VoidCount>0</a:VoidCount>
                    <a:VoidTotal>0.0000</a:VoidTotal>
                </a:TransactionSummary>
                <a:TransactionUTCTimestamp>2020-08-26
08:19:06Z</a:TransactionUTCTimestamp>
            </GetTransactionSummaryForCustomerResult>
        </GetTransactionSummaryForCustomerResponse>
    </s:Body>
</s:Envelope>
```

## 1.8 GetTransactionSummaryForCustomerListXML

### 1.8.1 INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| EndDateTime * | String | Valid End Date |
| ResellerID * | String | Reseller Id |
| StartDateTime * | String | Valid Start Date |
| CustomerListXML * | String | Customer list |

Note:  * = Required

### 1.8.2 OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| CustomerCode | String | Customer code for credential assigned by Magensa |
| CustomerID | Integer | Customer id value |
| CustomerShardByte | integer | CustomerShardByte value |
| AuthorizeCount | Integer | Authorize Count |
| AuthorizeTotal | Decimal | Authorize Total |
| CaptureCount | Integer | Capture Count |
| CaptureTotal | Decimal | Capture Total |
| EMVRejectCount | Integer | EMVReject Count |
| EMVRejectTotal | Decimal | EMVReject Total |
| ForceCount | Integer | Force Count |
| ForceTotal | Decimal | Force Total |
| RefundCount | Integer | Refund Count |

| Property | Type | Description |
|---|---|---|
| RefundTotal | Decimal | Refund Total |
| SalesCount | Integer | Sales Count |
| SalesTotal | Decimal | Sales Total |
| TokenCount | Integer | Token Count |
| TokenTotal | Decimal | Token Total |
| VoidCount | Integer | Void Count |
| VoidTotal | Decimal | Void Total |
| TransactionUTCTimestamp | String | |

GetTransactionSummaryForCustomerListXML Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionSummaryForCustomerListXML>
         <mpp:GetTransactionSummaryForCustomerListXMLRequest>
            <mpp1:Authentication>
                <mpp1:CustomerCode>CustomerCode</mpp1:CustomerCode>
                <mpp1:Password>Password</mpp1:Password>
                <mpp1:Username>Username</mpp1:Username>
            </mpp1:Authentication>
            <mpp1:CustomerListXML><![CDATA[<Custs>
      <Cust ID="customerId" SB="226" />
</Custs>]]></mpp1:CustomerListXML>
            <mpp1:EndDateTime>2019-02-13</mpp1:EndDateTime>
            <mpp1:ResellerID>1</mpp1:ResellerID>
            <mpp1:StartDateTime>2019-02-01</mpp1:StartDateTime>
         </mpp:GetTransactionSummaryForCustomerListXMLRequest>
      </mpp:GetTransactionSummaryForCustomerListXML>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionSummaryForCustomerListXML Response:

```xml
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <GetTransactionSummaryForCustomerListXMLResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
            <GetTransactionSummaryForCustomerListXMLResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
                <a:CustomerTransactionID i:nil="true"/>
                <a:CustomerTransactionSummaryList>
                    <a:CustomerTransactionSummary>
                        <a:CustomerCode i:nil="true"/>
                        <a:CustomerID>customerId</a:CustomerID>
                        <a:CustomerShardByte>226</a:CustomerShardByte>
                        <a:TransactionSummary>
                            <a:AuthorizeCount>0</a:AuthorizeCount>
                            <a:AuthorizeTotal>0.0000</a:AuthorizeTotal>
                            <a:CaptureCount>0</a:CaptureCount>
                            <a:CaptureTotal>0.0000</a:CaptureTotal>
                            <a:EMVRejectCount>0</a:EMVRejectCount>
                            <a:EMVRejectTotal>0.0000</a:EMVRejectTotal>
                            <a:ForceCount>0</a:ForceCount>
                            <a:ForceTotal>0.0000</a:ForceTotal>
                            <a:RefundCount>0</a:RefundCount>
                            <a:RefundTotal>0.0000</a:RefundTotal>
                            <a:SalesCount>7</a:SalesCount>
                            <a:SalesTotal>50001.0500</a:SalesTotal>
                            <a:TokenCount>1</a:TokenCount>
                            <a:TokenTotal>0.1000</a:TokenTotal>
                            <a:VoidCount>0</a:VoidCount>
                            <a:VoidTotal>0.0000</a:VoidTotal>
                        </a:TransactionSummary>
                    </a:CustomerTransactionSummary>
                </a:CustomerTransactionSummaryList>
                <a:MagTranID>98bf4354-4419-46ef-8bdb-
171b5f0c64c0</a:MagTranID>
                <a:TransactionUTCTimestamp>2020-08-27
16:21:24Z</a:TransactionUTCTimestamp>
            </GetTransactionSummaryForCustomerListXMLResult>
        </GetTransactionSummaryForCustomerListXMLResponse>
    </s:Body>
</s:Envelope>
```

## 1.9    GetTransactionSummaryForReseller

### 1.9.1   INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| EndDateTime * | String | Valid End Date |
| PageNumber * | Integer | |
| PageSize * | Integer | This is the size of the transaction details list to return after each request.  Set PageSize to a value higher than 0 to retrieve a subset page of records. <br> 0 returns all records matching the search criteria in decreasing order. <br> A positive value returns a page of records matching the search criteria in decreasing order. <br> A negative value returns a page of records matching the search criteria in increasing order |
| ResellerID * | String | Reseller Id |
| SortBy * | Integer | SortBy input value range 21 - 43 |
| StartDateTime * | String | Valid Start Date |

Note:  * = Required

### 1.9.2  OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| MaxPageSize | String | Max  Page size |
| TotalRowCount | String | TotalRowCount value |
| CustomerCode | String | Customer code value |
| CustomerID | Integer | Customer Id value |
| CustomerShardByte | String | CustomerShardByte value |
| AuthorizeCount | Integer | Authorize Count |
| AuthorizeTotal | Decimal | Authorize Total |
| CaptureCount | Integer | Capture Count |
| CaptureTotal | Decimal | Capture Total |
| EMVRejectCount | Integer | EMV Reject Count |
| EMVRejectTotal | Decimal | EMV Reject Total |
| ForceCount | Integer | Force Count |
| ForceTotal | Decimal | Force Total |
| RefundCount | Integer | Refund Count |
| RefundTotal | Decimal | Refund Total |
| SalesCount | Integer | Sales Count |
| SalesTotal | Decimal | Sales Total |
| TokenCount | Integer | Token Count |
| TokenTotal | Decimal | Token Total |
| VoidCount | Integer | Void Count |
| VoidTotal | Decimal | Void Total |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionSummaryForReseller Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionSummaryForReseller
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <!--Optional:-->
         <mpp:GetTransactionSummaryForResellerRequest
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <!--Optional:-->
            <mpp1:AdditionalRequestData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"><!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
                  <sys:key>?</sys:key>
                  <sys:value>?</sys:value>
               </sys:KeyValuePairOfstringstring>
</mpp1:AdditionalRequestData>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
               <mpp1:Password>password</mpp1:Password>
               <mpp1:Username>username</mpp1:Username>
            </mpp1:Authentication>
            <!--Optional:-->
            <mpp1:CustomerTransactionID i:nil="true"/>
            <mpp1:EndDateTime>2020-04-09T23:59:59</mpp1:EndDateTime>
            <!--Optional:-->
            <mpp1:PageNumber>1</mpp1:PageNumber>
            <!--Optional:-->
            <mpp1:PageSize>5</mpp1:PageSize>
            <mpp1:ResellerID>ResellerId</mpp1:ResellerID>
            <!--Optional:-->
            <mpp1:SortBy>-6</mpp1:SortBy>
          <mpp1:StartDateTime>2020-01-08T00:00:00</mpp1:StartDateTime>
        </mpp:GetTransactionSummaryForResellerRequest>
      </mpp:GetTransactionSummaryForReseller>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionSummaryForReseller Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionSummaryForResellerResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <GetTransactionSummaryForResellerResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
            <a:CustomerTransactionID i:nil="true"/>
            <a:CustomerTransactionSummaryList>
               <a:CustomerTransactionSummary>
                  <a:CustomerCode i:nil="true"/>
                  <a:CustomerID>CustomerId</a:CustomerID>
                  <a:CustomerShardByte>197</a:CustomerShardByte>
                  <a:TransactionSummary>
                     <a:AuthorizeCount>10079</a:AuthorizeCount>
                     <a:AuthorizeTotal>328746.7700</a:AuthorizeTotal>
                     <a:CaptureCount>9898</a:CaptureCount>
                     <a:CaptureTotal>321794.3200</a:CaptureTotal>
                     <a:EMVRejectCount>0</a:EMVRejectCount>
                     <a:EMVRejectTotal>0.0000</a:EMVRejectTotal>
                     <a:ForceCount>0</a:ForceCount>
                     <a:ForceTotal>0.0000</a:ForceTotal>
                     <a:RefundCount>14</a:RefundCount>
                     <a:RefundTotal>273.4100</a:RefundTotal>
                     <a:SalesCount>9</a:SalesCount>
<a:SalesTotal>8.1200</a:SalesTotal>
                     <a:TokenCount>10095</a:TokenCount>
                     <a:TokenTotal>9.4500</a:TokenTotal>
                     <a:VoidCount>66</a:VoidCount>
                     <a:VoidTotal>3447.6700</a:VoidTotal>
                  </a:TransactionSummary>
               </a:CustomerTransactionSummary>
               <a:CustomerTransactionSummary>
                  <a:CustomerCode i:nil="true"/>
                  <a:CustomerID>CustomerId</a:CustomerID>
<a:CustomerShardByte>154</a:CustomerShardByte>
                  <a:TransactionSummary>
<a:AuthorizeCount>10624</a:AuthorizeCount>
                     <a:AuthorizeTotal>276621.4000</a:AuthorizeTotal>
                     <a:CaptureCount>10261</a:CaptureCount>
                     <a:CaptureTotal>255398.3000</a:CaptureTotal>
                     <a:EMVRejectCount>0</a:EMVRejectCount>
                     <a:EMVRejectTotal>0.0000</a:EMVRejectTotal>
                     <a:ForceCount>0</a:ForceCount>
                     <a:ForceTotal>0.0000</a:ForceTotal>
                     <a:RefundCount>44</a:RefundCount>
                     <a:RefundTotal>48.2500</a:RefundTotal>
```

```
                    <a:SalesCount>4</a:SalesCount>
                    <a:SalesTotal>2.3400</a:SalesTotal>
                    <a:TokenCount>10623</a:TokenCount>
                    <a:TokenTotal>0.1000</a:TokenTotal>
                    <a:VoidCount>70</a:VoidCount>
                    <a:VoidTotal>567.3900</a:VoidTotal>
                </a:TransactionSummary>
              </a:CustomerTransactionSummary>
          </a:CustomerTransactionSummaryList>
          <a:MagTranID>136aa9d8-39e4-4e69-9cf2-
15db5b1099ab</a:MagTranID>
          <a:MaxPageSize>1</a:MaxPageSize>
          <a:TotalRowCount>2</a:TotalRowCount>
          <a:TransactionUTCTimestamp>2020-08-26
06:34:55Z</a:TransactionUTCTimestamp>
        </GetTransactionSummaryForResellerResult>
      </GetTransactionSummaryForResellerResponse>
   </s:Body>
</s:Envelope>
```

## 1.10  GetTransactionTypes

### 1.10.1 INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |

Note:  * = Required

### 1.10.2 OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from input |
| MagTranID | String | Magensa Transaction ID (GUID) |
| TransactionTypes | List of Strings | List of all Transaction Type values |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionTypes Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionTypes>
         <!--Optional:-->
         <mpp:GetTransactionTypesRequest>
            <!--Optional:-->
            <mpp1:AdditionalRequestData>
               <!--Zero or more repetitions:-->
               <sys:KeyValuePairOfstringstring>
```

```
                <sys:key>?</sys:key>
                <sys:value>?</sys:value>
            </sys:KeyValuePairOfstringstring>
         </mpp1:AdditionalRequestData>
         <mpp1:Authentication>
           <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
                <mpp1:Password>password</mpp1:Password>
                <mpp1:Username>username</mpp1:Username>
                   </mpp1:Authentication>
         <!--Optional:-->
         <mpp1:CustomerTransactionID>?</mpp1:CustomerTransactionID>
      </mpp:GetTransactionTypesRequest>
   </mpp:GetTransactionTypes>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionTypes Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionTypesResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
         <GetTransactionTypesResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
            <a:CustomerTransactionID>?</a:CustomerTransactionID>
            <a:MagTranID>b5e99270-7c89-47fd-8ae9-
f7bf53eb12ba</a:MagTranID>
            <a:TransactionTypes
xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
               <b:string>SALE</b:string>
               <b:string>AUTHORIZE</b:string>
               <b:string>CAPTURE</b:string>
               <b:string>VOID</b:string>
               <b:string>REFUND</b:string>
               <b:string>FORCE</b:string>
               <b:string>EMV_REJECT</b:string>
               <b:string>TOKEN</b:string>
               <b:string>REPORT</b:string>
            </a:TransactionTypes>
            <a:TransactionUTCTimestamp>2020-08-26
09:40:07Z</a:TransactionUTCTimestamp>
         </GetTransactionTypesResult>
      </GetTransactionTypesResponse>
   </s:Body>
</s:Envelope>
```

## 1.11  GetTransactionsByCustomerTransactionID

### 1.11.1 INPUT PROPERTIES

| Property (* required) | Type | Description |
|---|---|---|
| AdditionalRequestData | Array of key/value | A group that contains custom request data required by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples |
| CustomerCode * | String | Customer code for credential assigned by Magensa |
| Password * | String | Password for credential assigned by Magensa |
| Username * | String | Username for credential assigned by Magensa |
| CustomerTransactionID | String | Client-assigned transaction ID for easy cross-reference. |
| TransactionCustomerTransactionID | String | TransactionCustomerTransactionID value to retrieve the Transaction details |

Note:  * = Required

### 1.11.2 OUTPUT PROPERTIES

| Property | Type | Description |
|---|---|---|
| AdditionalResponseData | Array of key/value | A group that contains additional output data returned by the target web service. Elements are expressed as Key/Value pairs grouped under <KeyValuePairOfstringstring>. See examples. |
| CustomerTransactionID | String | Client-assigned transaction ID from output |
| MagTranID | String | Magensa Transaction ID (GUID) |
| TransactionDetails | Array of Transaction Detail | List of all Transaction Details |
| AVSResult | String | Address Verification System result from target service provider |
| Amount | Decimal | Amount for transaction in units (dollars or cents) as per target service provider's API. |
| AuthCode | String | Authorized Code from target service provider. |
| AuthorizedAmount | Decimal | Amount authorized |
| CVVResult | String | Card Verification Value result from target service provider. |
| CustomerTransactionID | String | Client-assigned transaction ID from input. |
| DeviceSN | String | MagTek device serial number |
| ID | Long | ID of the transaction detail record. |

| Property | Type | Description |
|---|---|---|
| IsReplay | Boolean | Boolean value indicating prior use of KSN from Magensa. |
| MagMessage | String | Magensa Message for the transaction |
| MagOperation | String | Magensa operation used to process the transaction |
| MagStatus | String | Magensa status |
| MagTranID | String | Magensa Transaction ID (GUID) |
| MagnePrintScore | Decimal | Magensa MagnePrint score |
| PANLast4 | Integer | PANLast4 digits to Filter |
| Processor | String | Processor used to process the transaction |
| ReferenceAuthCode | String | Processor reference authorization code |
| ReferenceTransactionID | String | Processor reference Transaction ID |
| ResellerCanVoidRefund | Boolean | Boolean input for Reseller Can Void Refund a transaction |
| TransactionID | String | Transaction ID from target service provider |
| TransactionInputDetailXML | String | Input Details of transaction |
| TransactionMessage | String | Transaction Message from processor |
| TransactionStatus | String | Transaction status from processor |
| TransactionType | String | Transaction type: SALE, AUTHORIZE, CAPTURE, VOID, REFUND, FORCE, REJECT |
| ZIP | Integer | ZIP code |
| TransactionUTCTimestamp | String | Transaction timestamp from Magensa |

GetTransactionsByCustomerTransactionID Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mpp="http://www.magensa.net/MPPGv2Portal/"
xmlns:mpp1="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Cor
e"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
   <soapenv:Header/>
   <soapenv:Body>
      <mpp:GetTransactionsByCustomerTransactionID>
         <mpp:GetTransactionsByCustomerTransactionIDRequest>
            <mpp1:Authentication>
               <mpp1:CustomerCode>customercode</mpp1:CustomerCode>
               <mpp1:Password>password</mpp1:Password>
               <mpp1:Username>Username</mpp1:Username>
            </mpp1:Authentication>
            <mpp1:CustomerTransactionID></mpp1:CustomerTransactionID>
```

```
<mpp1:TransactionCustomerTransactionID>1234567890</mpp1:TransactionCus
tomerTransactionID>
          </mpp:GetTransactionsByCustomerTransactionIDRequest>
      </mpp:GetTransactionsByCustomerTransactionID>
   </soapenv:Body>
</soapenv:Envelope>
```

GetTransactionsByCustomerTransactionID Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTransactionsByCustomerTransactionIDResponse
xmlns="http://www.magensa.net/MPPGv2Portal/">
        <GetTransactionsByCustomerTransactionIDResult
xmlns:a="http://schemas.datacontract.org/2004/07/MPPGv2PortalWS.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AdditionalResponseData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
            <a:CustomerTransactionID/>
            <a:MagTranID>bd53719b-4874-48ef-9d28-
4896de20177e</a:MagTranID>
            <a:TransactionDetails>
              <a:TransactionDetail>
                  <a:AVSResult i:nil="true"/>
                  <a:Amount>250.0000</a:Amount>
                  <a:AuthCode i:nil="true"/>
                  <a:AuthorizedAmount i:nil="true"/>
                  <a:CVVResult i:nil="true"/>

<a:CustomerTransactionID>1234567890</a:CustomerTransactionID>
                  <a:DeviceSN i:nil="true"/>
                  <a:ID>149626</a:ID>
                  <a:IsReplay i:nil="true"/>
                  <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                  <a:MagOperation>ProcessManualEntry</a:MagOperation>
                  <a:MagStatus>1000</a:MagStatus>
                  <a:MagTranID>0a188174-89ba-4263-b09e-
46e731edb66c</a:MagTranID>
                  <a:MagnePrintScore i:nil="true"/>
                  <a:PANLast4>1111</a:PANLast4>
                  <a:Processor>Chase - Pilot</a:Processor>
                  <a:ReferenceAuthCode i:nil="true"/>
                  <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                  <a:TransactionID i:nil="true"/>
                  <a:TransactionInputDetailXML i:nil="true"/>
                  <a:TransactionMessage i:nil="true"/>
                  <a:TransactionStatus i:nil="true"/>
```

```
                    <a:TransactionType>SALE</a:TransactionType>
                    <a:TransactionUTCTimestamp>2021-01-
22T10:30:24.89</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount>250.0000</a:Amount>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount i:nil="true"/>
                    <a:CVVResult i:nil="true"/>

<a:CustomerTransactionID>1234567890</a:CustomerTransactionID>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>149625</a:ID>
                    <a:IsReplay i:nil="true"/>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessManualEntry</a:MagOperation>
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>1f0aef03-dba8-4894-b75a-
a7a5a118cddf</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4>1111</a:PANLast4>
                    <a:Processor>Chase - Pilot</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID i:nil="true"/>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage i:nil="true"/>
                    <a:TransactionStatus i:nil="true"/>
                    <a:TransactionType>SALE</a:TransactionType>
                    <a:TransactionUTCTimestamp>2021-01-
22T10:29:38.93</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
                <a:TransactionDetail>
                    <a:AVSResult i:nil="true"/>
                    <a:Amount>150.0000</a:Amount>
                    <a:AuthCode i:nil="true"/>
                    <a:AuthorizedAmount>150.0000</a:AuthorizedAmount>
                    <a:CVVResult i:nil="true"/>

<a:CustomerTransactionID>1234567890</a:CustomerTransactionID>
                    <a:DeviceSN i:nil="true"/>
                    <a:ID>149623</a:ID>
                    <a:IsReplay i:nil="true"/>
                    <a:MagMessage>Transaction Successfully
Processed</a:MagMessage>
                    <a:MagOperation>ProcessManualEntry</a:MagOperation>
```

```
                    <a:MagStatus>1000</a:MagStatus>
                    <a:MagTranID>7fd175b7-f9d1-4c12-ab02-
b46f25ffcf4a</a:MagTranID>
                    <a:MagnePrintScore i:nil="true"/>
                    <a:PANLast4>1111</a:PANLast4>
                    <a:Processor>Rapid Connect v3</a:Processor>
                    <a:ReferenceAuthCode i:nil="true"/>
                    <a:ReferenceTransactionID i:nil="true"/>

<a:ResellerCanVoidRefund>false</a:ResellerCanVoidRefund>
                    <a:TransactionID>000504</a:TransactionID>
                    <a:TransactionInputDetailXML i:nil="true"/>
                    <a:TransactionMessage>000</a:TransactionMessage>
                    <a:TransactionStatus>001</a:TransactionStatus>
                    <a:TransactionType>SALE</a:TransactionType>
                    <a:TransactionUTCTimestamp>2021-01-
21T15:12:18.753</a:TransactionUTCTimestamp>
                    <a:ZIP i:nil="true"/>
                </a:TransactionDetail>
            </a:TransactionDetails>
            <a:TransactionUTCTimestamp>2021-01-29
05:07:03Z</a:TransactionUTCTimestamp>
        </GetTransactionsByCustomerTransactionIDResult>
      </GetTransactionsByCustomerTransactionIDResponse>
   </s:Body>
</s:Envelope>
```

# 2    Fault Codes and Reasons

| Fault Code | Fault Reason |
|---|---|
| 603 | Customer code is required |
| 604 | Username is required |
| 605 | Password is required |
| 620 | MagTranID is invalid |
| 660 | SignatureAsBase64String is invalid |
| 661 | Latitude is invalid |
| 662 | Longitude is invalid |
| 663 | StartDateTime is invalid |
| 664 | EndDateTime is invalid |
| 665 | StartDateTime/EndDateTime or range is invalid |
| 666 | AmountFrom/AmountTo or range is invalid |
| 667 | PageBookmarkTransactionID is invalid |
| 701 | Access Denied |
| 5000 | Unknown Error<br>(No match found from the search criteria)<br>(No receipt found) |

# Appendix A    Reserved