

Magensa Web Services

Remote Services For EMV
RemoteServicesv2 EMVTag Operations Manual

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Table 0-1 - Revisions

Rev Number	Date	Notes
10	March 16, 2015	Initial Release
11	April 9, 2015	Added Input Validation Errors
20	July 7, 2016	Added REST interface.
30	July 27, 2020	Added status codes and messages. General Updates.

Purpose of the document

The purpose of this document is to provide a description of how to call operations of the Magensa Remote Services web service.

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1 Introduction

The purpose of this document is to provide a description of how to call operations of the Magensa Remote Services web service.

2 EMVTags Operations

2.1 GetEMVCommands

A command used to parse TLV commands

2.1.1 INPUT PROPERTIES

Property(*)	Value	Value Description
CustomerCode *	<string>	Customer code
Username *	<string>	The User Identification credential created and assigned by MagTek.
Password *	<string>	The password for the credential.
BillingLabel	<string>	Billing Label
CustomerTransactionID	<string>	Customer transaction ID
DeviceType	<string>	Type of Device Example: Edynamo
EMVCommandType	<string>	Type of Command Example: EMVTags
KSN *	<string>	Key Serial Number of the reader
KeyName *	<string>	Key name.
SerialNumber *	<string>	Device serial number.
XMLString *	<string>	The EMV TLV commands in XML format. XML String must be Inserted as CDATA when sending a SOAP request. Example SOAP: <![CDATA[XML STRING]]> Example REST: "XML STRING"
AdditionalRequestData	<string>	A group that contains additional key/value pairs of data to be forwarded in the transaction

Note: * = Required

2.1.2 OUTPUT PROPERTIES

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID
MagTranId	<string>	Magensa assigned unique transaction ID in GUID form.
CommandType	int	Type of Command value
Description	<string>	Description for the command name
ExecutionTypeEnum	<string>	The Execution Type can be one of the following values: ALL, KSN, MUT
ID	int	Command ID.
Name	<string>	EMV command name.
Value	<string>	EMV TLV value
AdditionalOutputData	<string>	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs. See examples

GetEMVCommands SOAP Request:

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v2="http://www.magensa.net/RemoteServices/v2/"
xmlns:rem="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Co
re"
xmlns:sys="http://schemas.datacontract.org/2004/07/System.Collections.
Generic">
<soapenv:Header/>
  <soapenv:Body>
    <v2:GetEMVCommands>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
        <rem>Password>password</rem>Password>
        <rem:Username>username</rem:Username>
      </rem:Authentication>
      <rem:BillingLabel/>
      <rem:CustomerTransactionID/>
      <rem:AdditionalRequestData>
        <sys:KeyValuePairOfstringstring>
          <sys:key/>
          <sys:value/>
        </sys:KeyValuePairOfstringstring>
      </rem:AdditionalRequestData>
      <rem:DeviceType>eDynamo</rem:DeviceType>
      <rem:EMVCommandType>EMVTags</rem:EMVCommandType>
      <rem:KSN>9011400B487DBF000156</rem:KSN>
      <rem:KeyName>BDK9011400</rem:KeyName>
      <rem:SerialNumber>B487DBF022119AA</rem:SerialNumber>
      <rem:XMLString><![CDATA[<?xml version="1.0" encoding="UTF-
8"?>
<TAGconfig PaymentBrandGroupID="4" PaymentBrandGroupDescription="D-
PAS">
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        </ApplTag>
        <ApplTag>
          <!--Acquirer ID-->
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          <TagLen>06</TagLen>
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      </ApplTags>
    </SlotApplTag>
  </Slots>
</TAGconfig>
</rem:XMLString>

```



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  <TagValue>00 00 3A 98</TagValue>
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<ApplTag>
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  <TagLen>06</TagLen>
  <TagValue>000000100000</TagValue>
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<ApplTag>
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```
</ApplTag>
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      <!--Reader Contactless CVM Limit-->
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  <ReaderTag>
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  <ReaderTag>
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    <Tag>9F33</Tag>
    <TagLen>03</TagLen>
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  <ReaderTag>
    <!--Terminal Type-->
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  <TagValue>E0 00 00 A0 01</TagValue>
</ReaderTag>
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  <!--Merchant Name and Location-->
  <Tag>9F4E</Tag>
  <TagLen>0C</TagLen>
  <TagValue>41 4C 43 49 4E 45 4F 5F 54 45 53 54</TagValue>
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  <!--D-PAS Terminal Transaction Qualifier (TTQ)-->
  <Tag>9F66</Tag>
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  <TagLen>02</TagLen>
  <TagValue>00 01</TagValue>
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<ReaderTag>
  <!--DS ODS Term-->
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  <TagValue>51</TagValue>
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  <!--DS AC Type-->
  <Tag>DF8130</Tag>
  <TagLen>01</TagLen>
  <TagValue>0A</TagValue>
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  <Tag>DFDF02</Tag>
  <TagLen>43</TagLen>
<TagValue>5A82959C5F205F245F1A5F349F029F039F109F1A9F249F269F279F369F37
9F399F5D9F669F6E9F7CDFDF6B579F339A845F2A9F0699DFDF419F34DFDF4C9F099F35
9F41</TagValue>
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  <Tag>DFDF06</Tag>
  <TagLen>02</TagLen>
```

```

    <TagValue>8A 91</TagValue>
  </ReaderTag>
  <ReaderTag>
    <!--Authorization Request Tags MSD (ARQC)-->
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    <TagLen>28</TagLen>
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9F539F399F1EDDFDF4C57</TagValue>
  </ReaderTag>
  <ReaderTag>
    <!--Clearing Tags MSD-->
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  <ReaderTag>
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  </ReaderTag>
  <ReaderTag>
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  <ReaderTag>
    <!--Socket Retries-->
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  <ReaderTag>
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    <TagLen>3C</TagLen>
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>
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  <ReaderTag>
    <!--Default Terminal Language-->
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    <TagValue>65 6E</TagValue>
  </ReaderTag>
  <ReaderTag>
    <!--Reader Application Database Label-->
    <Tag>DFDF26</Tag>

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<ReaderTag>
  <!--Terminal Capabilities for Cashback Transaction-->
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  <!--Terminal Capabilities for Refund Transaction-->
  <Tag>DFDF5E</Tag>
  <TagLen>01</TagLen>
  <TagValue>0C</TagValue>
</ReaderTag>
<ReaderTag>
  <!--Terminal Features-->
  <Tag>DFDF5F</Tag>
  <TagLen>02</TagLen>
  <TagValue>FC00</TagValue>
</ReaderTag>
</ReaderTags>
</TAGconfig>]]</rem:XMLString>
  </v2:request>
</v2:GetEMVCommands>
</soapenv:Body>
</soapenv:Envelope>
```

GetCertLoadCommand Response:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEMVCommandsResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetEMVCommandsResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId/>
        <a:MagTranId>1c9ce573-d409-42d4-a845-
128b57971ecd</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:Commands>
            <a:Command>
              <a:CommandType>1</a:CommandType>
              <a:Description>Reader Tag Command</a:Description>
              <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
              <a:ID>1</a:ID>
              <a:Name>EMVTags</a:Name>
              <a:Value>03050193000101040B487DBF022119AA0000000000000000FA8201775F2A0
208405F3601029F150230309F1607414C43494E454F9F1A0208409F1C0831313232333
334349F3303E068089F3501219F4005E00000A0019F4E0C414C43494E454F5F5445535
49F6604B6804000DF15020001DF700151DF8130010ADDF02435A82959C5F205F245F1
A5F349F029F039F109F1A9F249F269F279F369F379F399F5D9F669F6E9F7CDFDF6B579
F339A845F2A9F0699DFDF419F34DFDF4C9F099F359F41DFDF06028A91DFDF0828509F1
2849F119F6D569F6BDF812ADF812BDFDF6BF599DFDF41DFDF529F6E9F539F399F1EDFD
F4C57DFDF0D06DFDF4BDFDF4CDFDF0E10700E5A08*****11255F340101DFDF
140400007530DFDF150400000003DFDF173C828E5F245F259F069F079F0D9F0E9F0F9F
109F269F279F36959B9C9F339F349F379F40DFDF70DFDF71DFDF729F5B5A9F029F039F
1A578A9F109F1250DFDF1902656EDDF260E446973636F766572312E30204442DFDF5B
010CDFDF5C0103DFDF5D0120DFDF5E010CDFDF5F02FC005689B27F</a:Value>
            </a:Command>
            <a:Command>
              <a:CommandType>1</a:CommandType>
              <a:Description>Application Tag Command for Slot
1</a:Description>
              <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
              <a:ID>2</a:ID>
              <a:Name>EMVTags</a:Name>
              <a:Value>0307007F000101040B487DBF022119AA0000000000000000FA8200638407A
00000015230109F01060000000000019F0607A00000015230109F090200019F1B04000
03A98DF0006000000100000DF0106000000005000DF0206000000000000DF812005100
0002000DF812105001000000DF81220530E09CF800DFDF2301013667EE84</a:Value
>
            </a:Command>
            <a:Command>
              <a:CommandType>1</a:CommandType>

```

```

                <a:Description>Application Tag Command for Slot
2</a:Description>
                <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
                <a:ID>3</a:ID>
                <a:Name>EMVTags</a:Name>
<a:Value>0307007F000201040B487DBF022119AA0000000000000000FA8200638407A
00000032410109F01060000000000019F0607A00000032410109F090200019F1B04000
03A98DF0006000000100000DF0106000000005000DF020600000000000DF812005100
0002000DF812105001000000DF81220530E09CF800DFDF2301018BE10A33</a:Value
>
                </a:Command>
                <a:Command>
                <a:CommandType>1</a:CommandType>
                <a:Description>Application Tag Command for Slot
3</a:Description>
                <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
                <a:ID>4</a:ID>
                <a:Name>EMVTags</a:Name>
<a:Value>0307007B000301040B487DBF022119AA0000000000000000FA82005F84050
0000000009F01060000000000009F060500000000009F090200009F1B040000000DF0
006000000000000DF010600000000000DF020600000000000DF812005000000000D
F812105000000000DF812205000000000DFDF230100126BE204</a:Value>
                </a:Command>
                <a:Command>
                <a:CommandType>1</a:CommandType>
                <a:Description>Application Tag Command for Slot
4</a:Description>
                <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
                <a:ID>5</a:ID>
                <a:Name>EMVTags</a:Name>
<a:Value>0307007B000401040B487DBF022119AA0000000000000000FA82005F84050
0000000009F01060000000000009F060500000000009F090200009F1B040000000DF0
006000000000000DF010600000000000DF020600000000000DF812005000000000D
F812105000000000DF812205000000000DFDF230100126BE204</a:Value>
                </a:Command>
                <a:Command>
                <a:CommandType>1</a:CommandType>
                <a:Description>Application Tag Command for Slot
5</a:Description>
                <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
                <a:ID>6</a:ID>
                <a:Name>EMVTags</a:Name>
<a:Value>0307007B000501040B487DBF022119AA0000000000000000FA82005F84050
0000000009F01060000000000009F060500000000009F090200009F1B040000000DF0
006000000000000DF010600000000000DF020600000000000DF812005000000000D
F812105000000000DF812205000000000DFDF230100126BE204</a:Value>
                </a:Command>
</a:Commands>

```

```
<a:PostloadCommands>
  <a:Command>
    <a:CommandType>1</a:CommandType>
    <a:Description>Postload Command</a:Description>
    <a:ExecutionTypeEnum>EMV</a:ExecutionTypeEnum>
    <a:ID>0</a:ID>
    <a:Name>EMVTags</a:Name>
    <a:Value>030E000104</a:Value>
  </a:Command>
</a:PostloadCommands>
<a:PreloadCommands/>
</GetEMVCommandsResult>
</GetEMVCommandsResponse>
</s:Body>
</s:Envelope>
```

3 Status Codes and Messages

Status Codes and Messages returned by Magensa for PPSCRAv2 Operations.

Internal errors

Property	StatusMsg	Notes
5000	Unknown Error	

Input Validation Errors

Property	StatusMsg	Notes
602	KSN is required	
603	CustomerCode is required	
604	Username is required	
605	Password is required	
607	KSN is not valid	Either the value was not HEX, or the value was too long.
609	KeyName is required	
615	CustomerTransactionID is not valid	Occurs if the length is more than 256 characters.
616	BillingLabel is not valid	Occurs if the length is more than 64 characters.
621	XMLString is required	
622	SerialNumber is required	
623	SerialNumber is not valid	Value was not HEX or too long.
701	Access Denied	Returned when user cannot be authenticated or authorized for any reason such as invalid username, Invalid password, or account locked.
702	Device Not Allowed	
1010	User has been locked out	
1011	User is inactive	
1012	User is blocked	
1013	User credential failed authentication	