

# Magensa Web Services

**Remote Services For PPSCRAs**  
**RemoteServicesv2 PPSCRAv2 Operations Manual**

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**Table 0-1 - Revisions**

<b>Rev Number</b>	<b>Date</b>	<b>Notes</b>
10	Nov, 2017	Initial Release
20	March 2020	Updated
30	Nov 2020	Updated

## 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

## 2 PPSCRAv2 Operations

### 2.1 GetCertLoadCommand

A command used to calculate the command, which is to be sent to the device for loading a certificate.

#### 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.
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
Challenge *	<string>	Challenge code for the certificate to be loaded (28 characters)
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
KSN *	<string>	Key Serial Number of the reader
KeyType *	<string>	The Key Type used for this command can be one of the following values: PIN, MSR

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
AdditionalOutputData	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.
CommandType	int	Type of command. 0 = Standard command 1 = Extended command
Description	<string>	Description of the command response
ExecutionTypeEnum	<string>	Execution type enumeration
ID	int	ID of the command response
Name	<string>	Name representing the function for the Value field.
Value	<string>	This is the value to send to the PPSCRA device for loading a certificate.

## GetCertLoadCommand 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:GetCertLoadCommand>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem:Password>Password</rem:Password>
          <rem:Username>Username</rem:Username>
        </rem:Authentication>
        <rem:BillingLabel>label</rem:BillingLabel>
        <rem:CustomerTransactionID>123</rem:CustomerTransactionID>
        <rem:AdditionalRequestData>
          <sys:KeyValuePairOfstringstring>
            <sys:key></sys:key>
          <sys:value></sys:value>
        </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:Challenge>0B0298D70CE31309160DA5B3FF42</rem:Challenge>
        <rem:DeviceType>DynaPro</rem:DeviceType>
        <rem:KSN>95000300000549200022</rem:KSN>
        <rem:KeyType>PIN</rem:KeyType>
      </v2:request>
    </v2:GetCertLoadCommand>
  </soapenv:Body>
</soapenv:Envelope>
```



GetCertLoadCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetCertLoadCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetCertLoadCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>123</a:CustomerTransactionId>
        <a:MagTranId>27868f12-d612-4811-a127-4d56f74d7125</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:Command>
            <a:CommandType>0</a:CommandType>
            <a:Description>Rebind Certificate</a:Description>

<a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
          <a:ID>0</a:ID>
          <a:Name>CertLoad</a:Name>
          <a:Value>308203D2308202BAA003020102020A16F2B8A100000000000A300D06092A8
64886F70D01010B</a:Value>
        </a:Command>
      </GetCertLoadCommandResult>
    </GetCertLoadCommandResponse>
  </s:Body>
</s:Envelope>
```

## 2.2 GetCommandListByDevice

A command used to retrieve the list of available configuration commands.

### 2.2.1 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.
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
DeviceType	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, DynaProGO, oDynamo, Generic, NotSpecified

Note: \* = Required

### 2.2.2 OUTPUT PROPERTIES

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID
MagTranId	<string>	Magensa assigned unique transaction ID in GUID form
AdditionalOutputData	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.
CommandType	int	Type of command. 0 = Standard command 1 = Extended command
Description	<string>	Description of the command response
ExecutionTypeEnum	<string>	The Execution Type can be one of the following values: ALL, KSN, MUT
ID	int	Command ID to be used for the following operation: GetLoadConfigCommand
Name	<string>	Name of the command.
Value	<string>	Value. Response may return a nil for this operation.

## GetCommandListByDevice 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:GetCommandListByDevice>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem>Password>password</rem>Password>
          <rem:Username>username</rem:Username>
        </rem:Authentication>
        <rem:BillingLabel>label</rem:BillingLabel>
        <rem:CustomerTransactionID>123</rem:CustomerTransactionID>
        <rem:AdditionalRequestData>
          <sys:KeyValuePairOfstringstring>
            <sys:key/>
            <sys:value/>
          </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:DeviceType>DynaPro</rem:DeviceType>
      </v2:request>
    </v2:GetCommandListByDevice>
  </soapenv:Body></soapenv:Envelope>
```

## GetCommandListByDevice Response:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetCommandListByDeviceResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetCommandListByDeviceResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>123</a:CustomerTransactionId>
        <a:MagTranId>f2ab9764-cc7b-483d-9bde-
e0f8dee6195c</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>0</a:CommandType>
              <a:Description>Config Unlocked</a:Description>
              <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
              <a:ID>164</a:ID>
              <a:Name>CONFIG_UNLOCKED</a:Name>
              <a:Value>177:0</a:Value>
            </a:Command>
            <a:Command>
              <a:CommandType>0</a:CommandType>
              <a:Description>Config Locked</a:Description>
              <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
              <a:ID>165</a:ID>
              <a:Name>CONFIG_LOCKED</a:Name>
              <a:Value>177:1</a:Value>
            </a:Command>
            <a:Command>
              <a:CommandType>0</a:CommandType>
              <a:Description>Bitmap Unlocked</a:Description>
              <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
              <a:ID>166</a:ID>
              <a:Name>BITMAP_UNLOCKED</a:Name>
              <a:Value>166:0</a:Value>
            </a:Command>
            <a:Command>
              <a:CommandType>0</a:CommandType>
              <a:Description>Bitmap Locked</a:Description>
              <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
              <a:ID>167</a:ID>
              <a:Name>BITMAP_LOCKED</a:Name>
              <a:Value>166:1</a:Value>
            </a:Command>
            <a:Command>
              <a:CommandType>0</a:CommandType>
              <a:Description>Tests Allowed Disable</a:Description>
              <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>

```

```

    <a:ID>168</a:ID>
    <a:Name>TESTS_ALLOWED_DISABLE</a:Name>
    <a:Value>155:0</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>Tests Allowed Enable</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>169</a:ID>
    <a:Name>TESTS_ALLOWED_ENABLE</a:Name>
    <a:Value>155:1</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>iAP Config Allowed
Unlocked</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>170</a:ID>
    <a:Name>IAP_CONFIG_ALLOWED_UNLOCKED</a:Name>
    <a:Value>144:0</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>iAP Config Allowed
Locked</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>171</a:ID>
    <a:Name>IAP_CONFIG_ALLOWED_LOCKED</a:Name>
    <a:Value>144:1</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>Require Auth No</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>172</a:ID>
    <a:Name>REQUIRE_AUTH_NO</a:Name>
    <a:Value>100:0</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>Require Auth Yes</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>173</a:ID>
    <a:Name>REQUIRE_AUTH_YES</a:Name>
    <a:Value>100:1</a:Value>
  </a:Command>
  <a:Command>
    <a:CommandType>0</a:CommandType>
    <a:Description>Mask Config: ISO Mask
Disabled</a:Description>
    <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
    <a:ID>174</a:ID>

```

```

        <a:Name>MASK_CONFIG_ISO_MASK_DISABLED</a:Name>
        <a:Value>377:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: ISO Mask
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>175</a:ID>
        <a:Name>MASK_CONFIG_ISO_MASK_ENABLED</a:Name>
        <a:Value>377:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Check Digit
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>176</a:ID>
        <a:Name>MASK_CONFIG_CHECK_DIGIT_DISABLED</a:Name>
        <a:Value>366:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Check Digit
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>177</a:ID>
        <a:Name>MASK_CONFIG_CHECK_DIGIT_ENABLED</a:Name>
        <a:Value>366:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: MS2.0
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>178</a:ID>
        <a:Name>MASK_CONFIG_MS20_DISABLED</a:Name>
        <a:Value>354:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: MS2.0
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>179</a:ID>
        <a:Name>MASK_CONFIG_MS20_ENABLED</a:Name>
        <a:Value>354:2</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Track 2 Data
Error</a:Description>

```

```

        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>180</a:ID>
        <a:Name>MASK_CONFIG_TRACK2_ERROR</a:Name>
        <a:Value>332:2</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Track 2 Data
Blank</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>181</a:ID>
        <a:Name>MASK_CONFIG_TRACK2_BLANK</a:Name>
        <a:Value>332:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Track 1 Data
Error</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>182</a:ID>
        <a:Name>MASK_CONFIG_TRACK1_ERROR</a:Name>
        <a:Value>310:2</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Mask Config: Track 1 Data
Blank</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>183</a:ID>
        <a:Name>MASK_CONFIG_TRACK1_BLANK</a:Name>
        <a:Value>310:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: AAMVA Card
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>184</a:ID>
        <a:Name>MSR_CONFIG_AAMVA_DISABLED</a:Name>
        <a:Value>477:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: AAMVA Card
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>185</a:ID>
        <a:Name>MSR_CONFIG_AAMVA_ENABLED</a:Name>
        <a:Value>477:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>

```

```

        <a:Description>MSR Card Config: Non-Financial Card
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>186</a:ID>
        <a:Name>MSR_CONFIG_NON_FINANCIAL_DISABLED</a:Name>
        <a:Value>466:0</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: Non-Financial Card
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>187</a:ID>
        <a:Name>MSR_CONFIG_NON_FINANCIAL_ENABLED</a:Name>
        <a:Value>466:1</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: Track 3 Data
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>188</a:ID>
        <a:Name>MSR_CONFIG_TRACK3_DISABLED</a:Name>
        <a:Value>454:0</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: Track 3 Data
Enabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>189</a:ID>
        <a:Name>MSR_CONFIG_TRACK3_ENABLED</a:Name>
        <a:Value>454:1</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: Track 3 Data
Required</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>190</a:ID>
        <a:Name>MSR_CONFIG_TRACK3_REQUIRED</a:Name>
        <a:Value>454:3</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>MSR Card Config: Track 2 Data
Disabled</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>191</a:ID>
        <a:Name>MSR_CONFIG_TRACK2_DISABLED</a:Name>
        <a:Value>432:0</a:Value>
</a:Command>

```



```

    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>MSR Card Config: Track 2 Data
Enabled</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>192</a:ID>
      <a:Name>MSR_CONFIG_TRACK2_ENABLED</a:Name>
      <a:Value>432:1</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>MSR Card Config: Track 2 Data
Required</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>193</a:ID>
      <a:Name>MSR_CONFIG_TRACK2_REQUIRED</a:Name>
      <a:Value>432:3</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>MSR Card Config: Track 1 Data
Disabled</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>194</a:ID>
      <a:Name>MSR_CONFIG_TRACK1_DISABLED</a:Name>
      <a:Value>410:0</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>MSR Card Config: Track 1 Data
Enabled</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>195</a:ID>
      <a:Name>MSR_CONFIG_TRACK1_ENABLED</a:Name>
      <a:Value>410:1</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>MSR Card Config: Track 1 Data
Required</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>196</a:ID>
      <a:Name>MSR_CONFIG_TRACK1_REQUIRED</a:Name>
      <a:Value>410:3</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Specify the Mask
Character</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>197</a:ID>
      <a:Name>MASK_CHAR</a:Name>

```

```

        <a:Value>570:##</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Leading Length to Leave
Unmasked</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>198</a:ID>
        <a:Name>UNMASKED_LEADING_LENGTH</a:Name>
        <a:Value>674:##</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Trailing Length to Leave
Unmasked</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>199</a:ID>
        <a:Name>UNMASKED_TRAILING_LENGTH</a:Name>
        <a:Value>630:##</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>EMV L2 ICS Config: No L2
capability</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>200</a:ID>
        <a:Name>EMV_L2_ICS_CONFIG_NONE</a:Name>
        <a:Value>730:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>EMV L2 ICS Config: Configuration
1C</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>201</a:ID>
        <a:Name>EMV_L2_ICS_CONFIG_1C</a:Name>
        <a:Value>730:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>EMV L2 ICS Config: Configuration
2C</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>202</a:ID>
        <a:Name>EMV_L2_ICS_CONFIG_2C</a:Name>
        <a:Value>730:2</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>This is a sample
Command</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>

```

```

        <a:ID>239</a:ID>
        <a:Name>Sample Command 2</a:Name>
        <a:Value>Another Sample Command Value</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Use PIN Variant for MSR
Encryption</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>247</a:ID>
        <a:Name>MSR_ENCRYPTION_PIN</a:Name>
        <a:Value>111:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Use DATA Variant for MSR
Encryption</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>248</a:ID>
        <a:Name>MSR_ENCRYPTION_DATA</a:Name>
        <a:Value>111:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Disable Clear Text User Data
Command</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>249</a:ID>
        <a:Name>CLEAR_TEXT_USER_DATA_NO</a:Name>
        <a:Value>133:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Enable Clear Text User Data
Command</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>250</a:ID>
        <a:Name>CLEAR_TEXT_USER_DATA_YES</a:Name>
        <a:Value>133:1</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Disable Charging, 30 PIN
ONLY</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>251</a:ID>
        <a:Name>ALLOW_CHARGING_DISABLED</a:Name>
        <a:Value>200:0</a:Value>
    </a:Command>
    <a:Command>
        <a:CommandType>0</a:CommandType>

```

```

        <a:Description>Enable Charging, 30 PIN
ONLY</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>252</a:ID>
        <a:Name>ALLOW_CHARGING_ENABLED</a:Name>
        <a:Value>200:1</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Enable Inbound ARPC MAC
checking</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>253</a:ID>
        <a:Name>MAC_CHECKING_ENABLE</a:Name>
        <a:Value>211:0</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Disable Inbound ARPC MAC
checking</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>254</a:ID>
        <a:Name>MAC_CHECKING_DISABLE</a:Name>
        <a:Value>211:1</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Enable Reporting of Financial with
ICC card type</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>255</a:ID>
        <a:Name>FINANCIAL_ICC_REPORTING_ENABLE</a:Name>
        <a:Value>222:0</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>Disable Reporting of Financial with
ICC card type</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>256</a:ID>
        <a:Name>FINANCIAL_ICC_REPORTING_DISABLE</a:Name>
        <a:Value>222:1</a:Value>
</a:Command>
<a:Command>
        <a:CommandType>0</a:CommandType>
        <a:Description>EMV L2 Configuration
Setting</a:Description>
        <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
        <a:ID>257</a:ID>
        <a:Name>EMV_L2_ICC_CONFIG</a:Name>
        <a:Value>770:#</a:Value>
</a:Command>

```

```

    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Enable all contactless payment
brands</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>258</a:ID>
      <a:Name>CONTACTLESS_PAYMENT_ALL_ENABLED</a:Name>
      <a:Value>840:0</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Disable PayPass</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>259</a:ID>
<a:Name>CONTACTLESS_PAYMENT_PAYPASS_DISABLED</a:Name>
      <a:Value>840:1</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Disable PayWave</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>260</a:ID>
<a:Name>CONTACTLESS_PAYMENT_PAYWAVE_DISABLED</a:Name>
      <a:Value>840:2</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Disable ExpressPay</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>261</a:ID>
<a:Name>CONTACTLESS_PAYMENT_EXPRESSPAY_DISABLED</a:Name>
      <a:Value>840:4</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Disable DPAS</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>262</a:ID>
      <a:Name>CONTACTLESS_PAYMENT_D-PAS_DISABLED</a:Name>
      <a:Value>840:8</a:Value>
    </a:Command>
    <a:Command>
      <a:CommandType>0</a:CommandType>
      <a:Description>Contactless Only, allows activation
of MSD, ICC and PICC channels at same time</a:Description>
      <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
      <a:ID>263</a:ID>
      <a:Name>GUI_CONTROL_STANDARD</a:Name>
      <a:Value>855:0</a:Value>

```

```
        </a:Command>
        <a:Command>
            <a:CommandType>0</a:CommandType>
            <a:Description>Contactless Only, MSD and PICC
channels cannot be activated at same time to prevent
interference</a:Description>
            <a:ExecutionTypeEnum>KSN</a:ExecutionTypeEnum>
            <a:ID>264</a:ID>
            <a:Name>GUI_CONTROL_ALTERNATE</a:Name>
            <a:Value>855:1</a:Value>
        </a:Command>
    </a:Commands>
</GetCommandListByDeviceResult>
</GetCommandListByDeviceResponse>
</s:Body>
</s:Envelope>
```

## 2.3 GetEnableSREDCommand

### 2.3.1 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.
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
Challenge *	<string>	Challenge code for the Key (28 characters)
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
KSN *	<string>	Key Serial Number of the reader
WhiteListType	<string>	When whitelisted the device will not encrypt specific valued depending on the setting. value is either "MSR" or "PAN".

Note: \* = Required

**2.3.2 OUTPUT PROPERTIES**

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID.
MagTranId	<string>	The User Identification credential created and assigned by MagTek.
AdditionalOutputData	Array of key/value	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs.
CommandType	int	Command Type value
Description	<string>	Description of command
ExecutionTypeEnum	<string>	Execution type enumeration values
ID	int	ID
Name	<string>	Name of command
Value	<string>	Value of command



## GetEnableSREDCommand 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:GetEnableSREDCommand>
  <!--Optional:-->
  <v2:request>
    <rem:Authentication>
      <rem:CustomerCode>customercode</rem:CustomerCode>
      <rem>Password>password</rem>Password>
      <rem:Username>username</rem:Username>
    </rem:Authentication>
    <!--Optional:-->
    <rem:BillingLabel>?</rem:BillingLabel>
    <!--Optional:-->
    <rem:CustomerTransactionID>?</rem:CustomerTransactionID>
    <!--Optional:-->
    <rem:AdditionalRequestData>
      <!--Zero or more repetitions:-->
      <sys:KeyValuePairOfstringstring>
        <sys:key>?</sys:key>
        <sys:value>?</sys:value>
      </sys:KeyValuePairOfstringstring>
    </rem:AdditionalRequestData>

    <rem:Challenge>0D0098D70CE31309160D00000000</rem:Challenge>
      <rem:DeviceType>oDynamo</rem:DeviceType>
      <rem:KSN>95000300000549200022</rem:KSN>
      <rem:WhiteListType></rem:WhiteListType>
    </v2:request>
  </v2:GetEnableSREDCommand>
</soapenv:Body>
</soapenv:Envelope>

```

## GetEnableSREDCCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEnableSREDCCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetEnableSREDCCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId?</a:CustomerTransactionId>
        <a:MagTranId>5d995398-3ff1-4b8d-af86-
9c328c022782</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:Command>
            <a:CommandType>0</a:CommandType>
<a:Description>EnableSRED</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a:Name>EnableSRED</a:Name>
<a:Value>C00101C10102C20158E0820158DF70820153000141000D0098D70CE313091
60D00000000807F</a:Value>
          </a:Command>
        </GetEnableSREDCCommandResult>
      </GetEnableSREDCCommandResponse>
    </s:Body>
  </s:Envelope>
```

## 2.4 GetKeyList

A command used to retrieve a list of key properties

### 2.4.1 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.

Note: \* = Required

### 2.4.2 OUTPUT PROPERTIES

Property	Value	Value Description
CustomerTransactionId	<string>	Customer code
MagTranId	<string>	The User Identification credential created and assigned by MagTek.
Description	<string>	The password for the credential.
ID	int	ID of the key
KSI	<string>	Key slot indicator. First 7 digits of the KSN.
KeyName	<string>	Name of the key
KeySlotNamePrefix	<string>	Prefix of the key slot

GetKeyList 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">
  <soapenv:Header/>
  <soapenv:Body>
    <v2:GetKeyList>
      <!--Optional:-->
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
        <rem>Password>password</rem>Password>
        <rem:Username>username</rem:Username>
        </rem:Authentication>
        <!--Optional:-->
        <rem:BillingLabel>?</rem:BillingLabel>
        <!--Optional:-->
        <rem:CustomerTransactionID>?</rem:CustomerTransactionID>
      </v2:request>
    </v2:GetKeyList>
  </soapenv:Body>
</soapenv:Envelope>
```

## GetKeyList Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body><GetKeyListResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
  <GetKeyListResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <a:CustomerTransactionId?</a:CustomerTransactionId>
    <a:MagTranId>d870c82f-ead5-4101-bace-
c2d6b5979736</a:MagTranId>
    <a:Keys>
      <a:Key>
        <a:Description>Currently Loaded Key</a:Description>
        <a:ID>-1</a:ID>
        <a:KSI>0000000</a:KSI>
        <a:KeyName>Current Key</a:KeyName>
        <a:KeySlotNamePrefix>Prod</a:KeySlotNamePrefix>
      </a:Key>
      <a:Key>
        <a:Description>MAGENSA PROD UIK</a:Description>
        <a:ID>119</a:ID>
        <a:KSI>9014500</a:KSI>
        <a:KeyName>MAGENSA PROD UIK</a:KeyName>
        <a:KeySlotNamePrefix>Prod</a:KeySlotNamePrefix>
      </a:Key>
    </a:Keys>
  </GetKeyListResult>
</GetKeyListResponse>
</s:Body>
</s:Envelope>
```

## 2.5 GetKeyLoadCommand

A command used to calculate the command to change from one DUKPT key to another securely.

### 2.5.1 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.
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
Challenge *	<string>	Challenge code for the certificate to be loaded (28 characters)
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
DeviceCert *	<string>	Device certificate (1908 characters)
KSI *	<string>	Key slot indicator. First 7 digits of the KSN
KSN *	<string>	Key Serial Number of the reader
KeyType *	<string>	The Key Type used for this command can be one of the following values: PIN, MSR, AMK

Note: \* = Required

**2.5.2 OUTPUT PROPERTIES**

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID
MagTranId	<string>	Magensa assigned unique transaction ID in GUID form
BaseKCV	<string>	Base derivation key Key Check Value
CommandType	int	Type of command. 0 = Standard command 1 = Extended command
AdditionalOutputData	Array of key/value	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs. See examples.
Description	<string>	Description of the command response
ExecutionTypeEnum	<string>	Execution type enumeration
ID	int	ID of the command response
Name	<string>	Name representing the function for Value
Value	<string>	This is the command to send to the PPSCRA device.
DukptKCV	<string>	DUKPT Key Check Value
KeyPrefix	<string>	Key Prefix
KeyType	<string>	The Key Type used for this command can be one of the following values: PIN, MSR, AMK

GetKeyLoadCommand 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:GetKeyLoadCommand>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem>Password>password</rem>Password>
          <rem:Username>username</rem:Username>
        </rem:Authentication>
        <rem:BillingLabel>label</rem:BillingLabel>
        <rem:CustomerTransactionID>123</rem:CustomerTransactionID>
        <rem:AdditionalRequestData>
          <sys:KeyValuePairOfstringstring>
            <sys:key></sys:key>
          <sys:value></sys:value>
        </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:Challenge>0D0098D70CE31309160D00000000</rem:Challenge>
        <rem:DeviceCert>308203B63082029EA003020102020A1B42F06800000000084D300D
06092A864886F70D01010B</rem:DeviceCert>
        <rem:DeviceType>DynaPro</rem:DeviceType>
        <rem:KSI>9500030</rem:KSI>
        <rem:KSN>950003000000012065A5</rem:KSN>
        <rem:KeyType>MSR</rem:KeyType>
      </v2:request>
    </v2:GetKeyLoadCommand>
  </soapenv:Body>
</soapenv:Envelope>
```



## GetKeyLoadCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetKeyLoadCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetKeyLoadCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>123</a:CustomerTransactionId>
        <a:MagTranId>bf40dd7e-6297-4b14-9bff-
bfd612cbc159</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:BaseKCV>08D7B4</a:BaseKCV>
          <a:Command>
            <a:CommandType>0</a:CommandType>
            <a:Description>Key Injection</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a:Name>ChangeKey</a:Name>
            <a:Value>00010001150098D70CE31309160D0000000095000300001224205395B14D8
2BD62C6911C02BE</a:Value>
          </a:Command>
          <a:DukptKCV>6ED7CC</a:DukptKCV>
          <a:KeyPrefix i:nil="true"/>
          <a:KeyType>MSR</a:KeyType>
        </GetKeyLoadCommandResult>
      </GetKeyLoadCommandResponse>
    </s:Body>
  </s:Envelope>
```

## 2.6 GetLoadConfigCommand

A command used to get the command, which is to be sent to the device for loading the configuration.

### 2.6.1 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.
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
Challenge *	<string>	Challenge code for the certificate to be loaded (28 characters)
CommandId *	int	The value from the ID field of the command: GetCommandListByDevice
ConfigData *	int	Value for the configuration data
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
ExistingConfig	<string>	The configuration value before it is to be changed.
KSN *	<string>	Key Serial Number of the reader
KeyType *	<string>	KeyType value Example : PIN, MSR

Note: \* = Required

## 2.6.2 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. 0 = Standard command 1 = Extended command
AdditionalOutputData	Array of key/value	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs. See examples.
Description	<string>	Description of the command response
ExecutionTypeEnum	<string>	Execution type enumeration
ID	int	ID of the command response
Name	<string>	Name representing the function for Value
Value	<string>	This is the command to send to the PPSCRA device.
TargetConfig	<string>	TargetConfig value

GetLoadConfigCommand 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:GetLoadConfigCommand>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem>Password>password</rem>Password>
          <rem:Username>username</rem:Username>
        </rem:Authentication>
        <rem:BillingLabel>label</rem:BillingLabel>
        <rem:CustomerTransactionID>123</rem:CustomerTransactionID>
        <rem:AdditionalRequestData>
          <sys:KeyValuePairOfstringstring>
            <sys:key/>
          <sys:value/>
        </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:Challenge>0BFF98D70CE31309160D75A73F21</rem:Challenge>
        <rem:ConfigCommands>
          <rem:DeviceConfigCommand>
            <rem:CommandId>80</rem:CommandId>
            <rem:ConfigData>49</rem:ConfigData>
          </rem:DeviceConfigCommand>
        </rem:ConfigCommands>
        <rem:DeviceType>DynaPro</rem:DeviceType>
        <rem:ExistingConfig>090800C0D530640100</rem:ExistingConfig>
        <rem:KSN>9500030000054920001B</rem:KSN>
        <rem:KeyType>MSR</rem:KeyType>
      </v2:request>
    </v2:GetLoadConfigCommand>
  </soapenv:Body>
</soapenv:Envelope>
```

## GetLoadConfigCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetLoadConfigCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetLoadConfigCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>123</a:CustomerTransactionId>
        <a:MagTranId>8e774f3b-2326-4502-b8ef-6a90f386d74e</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:Command>
            <a:CommandType>0</a:CommandType>
            <a:Description>Load Config</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a>Name>LoadConfig</a>Name>

            <a:Value>000109000BFF98D70CE31309160D75A70000091802C0D53044010007910F8
83BE0B57E968F8F27626D9921DCF
2B6C5CD907FD58DEE30A96FF53114B1D3BEFEE5BE5558FE9B2FB6AB4D2912DB08BCC17
E17EF58AA3503006A7892CBB49B7
767AD8AD5BCD60CF87936000B150A4855D117201DAEBD8ACEC7B5268E91750B05B3C24
55F74DD18D492B20DCEE760D848
66D854A3B1EB4579FDEF2071C97FD5871DAE3301A4711E0D27F23717C547F844D2EDE9
A5416F91348D7AA76E847762AA70
6B14B28D650E4C3A1DAF91C241E9ADABC5633B6746EDF80962ED9F6AA0A6B4AFD497BD
B1966433BECC358D53F7643FC1EF
521C16875463DCD95E27FA0DDBDD7B3925D36BC915AF697055B6AAA6E987906EF23681
4722C856A2F695A</a:Value>
          </a:Command>
          <a:TargetConfig>091802C0D530440100</a:TargetConfig>
        </GetLoadConfigCommandResult>
      </GetLoadConfigCommandResponse>
    </s:Body>
  </s:Envelope>
```

## 2.7 GetDeviceAuthCommand

A command used to get the command which is to be sent to the device for device authentication.

### 2.7.1 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 (no more than 64 characters)
CustomerTransactionID	<string>	Customer transaction 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
Challenge *	<string>	Challenge code for the certificate to be loaded (28 characters)
DeviceCert *	<string>	Device certificate (1908 characters)
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
KeyType *	<string>	KeyType value Example : MSR

Note: \* = Required

**2.7.2 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. 0 = Standard command 1 = Extended command
AdditionalOutputData	Array of key/value	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs. See examples.
Description	<string>	Description of the command response
ExecutionTypeEnum	<string>	Execution type enumeration
ID	int	ID of the command response
Name	<string>	Name representing the function for Value
Value	<string>	This is the command to send to the PPSCRA device.
KCV	<string>	KCV value
KeyType	<string>	KeyType value

GetDeviceAuthCommand 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:GetDeviceAuthCommand>
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem>Password>password</rem>Password>
          <rem:Username>username</rem:Username>
        </rem:Authentication>
        <rem:BillingLabel>label</rem:BillingLabel>
        <rem:CustomerTransactionID>123</rem:CustomerTransactionID>
        <rem:AdditionalRequestData>
          <sys:KeyValuePairOfstringstring>
            <sys:key/>
            <sys:value/>
          </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:Challenge>0D0098D70CE31309160D00000000</rem:Challenge>
        <rem:DeviceCert>308203B63082029EA003020102020A1B42F06800000000084D300D
06092A864886F70D01010B</rem:DeviceCert>
        <rem:DeviceType>DynaProGO</rem:DeviceType>
        <rem:KeyType>MSR</rem:KeyType>
      </v2:request>
    </v2:GetDeviceAuthCommand>
  </soapenv:Body>
</soapenv:Envelope>
```



GetDeviceAuthCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetDeviceAuthCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetDeviceAuthCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>123</a:CustomerTransactionId>
        <a:MagTranId>c597cad7-9d53-4a96-93f8-94cf2557e0ee</a:MagTranId>
        <a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/>
          <a:Command>
            <a:CommandType>0</a:CommandType>
            <a:Description>Device Authentication</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a:Name>DeviceAuthCommand</a:Name>
            <a:Value>000100010D0098D70CE31309160D00000000354797E1DD1522202F0E8B5BD
F77FF21E57DAD23</a:Value>
          </a:Command>
          <a:KCV>76956A18</a:KCV>
          <a:KeyType>MSR</a:KeyType>
        </GetDeviceAuthCommandResult>
      </GetDeviceAuthCommandResponse>
    </s:Body>
  </s:Envelope>
```

## 2.8 GetPreActivateCommand

### 2.8.1 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.
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
Challenge *	<string>	Challenge code for the Key (28 characters)
DeviceType *	<string>	This is the Device name. The DeviceType used for this command can be one of the following values: DynaPro, oDynamo, Generic, NotSpecified
KSN *	<string>	Key Serial Number of the reader
KeyType *	<string>	The Key Type used for this command can be one of the following values: PIN, MSR, AMK
OrderID *	<string>	Order ID value
TechID *	<string>	Tech ID value

Note: \* = Required

**2.8.2 OUTPUT PROPERTIES**

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID.
MagTranId	<string>	Magensa assigned unique transaction ID in GUID form
AdditionalOutputData	Array of key/value	A group that contains additional output data returned by the target Web service. Elements are expressed as Key/Value pairs.
CommandType	int	Type of command. 0 = Standard command 1 = Extended command
Description	<string>	Description
ExecutionTypeEnum	<string>	Execution type enumeration
ID	int	ID
Name	<string>	Name of command
Value	<string>	Value of command

## GetPreActivateCommand 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:GetPreActivateCommand>
      <!--Optional:-->
      <v2:request>
        <rem:Authentication>
          <rem:CustomerCode>customercode</rem:CustomerCode>
          <rem>Password>password</rem>Password>
          <rem:Username>username</rem:Username>
        </rem:Authentication>
        <!--Optional:-->
        <rem:BillingLabel></rem:BillingLabel>
        <!--Optional:-->
        <rem:CustomerTransactionID></rem:CustomerTransactionID>
        <!--Optional:-->
        <rem:AdditionalRequestData>
          <!--Zero or more repetitions:-->
          <sys:KeyValuePairOfstringstring>
            <sys:key></sys:key>
            <sys:value></sys:value>
          </sys:KeyValuePairOfstringstring>
        </rem:AdditionalRequestData>
        <rem:Challenge>0D0098D70CE31309160D00000000</rem:Challenge>
        <rem:DeviceType>oDynamo</rem:DeviceType>
        <rem:KSN>950003000000012065A5</rem:KSN>
        <rem:KeyType>MSR</rem:KeyType>
        <rem:OrderID>1</rem:OrderID>
        <rem:TechID>1</rem:TechID>
      </v2:request>
    </v2:GetPreActivateCommand>
  </soapenv:Body>
</soapenv:Envelope>

```

GetPreActivateCommand Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Body>
<GetPreActivateCommandResponse
xmlns="http://www.magensa.net/RemoteServices/v2/">
<GetPreActivateCommandResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<a:CustomerTransactionId?></a:CustomerTransactionId>
<a:MagTranId>022cabaa-ea61-4078-97c6-cf982fc35627</a:MagTranId>
<a:AdditionalOutputData i:nil="true"
xmlns:b="http://schemas.datacontract.org/2004/07/System.Collections.Ge
neric"/><a:Command>
  <a:CommandType>0</a:CommandType>
  <a:Description>PreActivate</a:Description>
  <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
  <a:ID>0</a:ID><a:Name>PreActivate</a:Name>
  <a:Value>
C00101C10102C20158E0820120DF7382011B000109000D0098D70CE31309160D000000
000601</a:Value>
  </a:Command>
</GetPreActivateCommandResult>
</GetPreActivateCommandResponse>
</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.
608	DeviceCert is required	
610	Challenge is required	
613	Device config is not valid	
614	KeyType is not valid	Occurs if the length is more than 64 characters.
615	CustomerTransactionID is not valid	Value was longer than 256 characters.
616	BillingLabel is not valid	Value was longer than 64 characters.
625	KSI is not valid	Value was longer than 16 characters.
626	DeviceCert is not valid	Value was not equal to length of 1908 characters.
621	XMLString is required	
622	SerialNumber is required	
623	SerialNumber is not valid	Value was not HEX or too long.
627	Challenge is not valid	Value was not equal to length of 28 characters.
628	DeviceSN is not valid	
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	The device is not active in the database.
709	Device type is not supported	
1013	User credential failed authentication	

## Appendix A Reserved

Intentionally left blank.