



# Magensa Web Service

Magensa Decrypt

**Code Samples**

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Table 0.1 – Revision

Rev Number	Date	By	Notes
10	June 24, 2019	Rod Vesling	Initial Release

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**Purpose of the document**

The purpose of this document is to provide the code sample details.

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# 1 Introduction

This document covers pre-built code samples that use Magensa's Decrypt Service. These code samples are intended to present examples on how to call and utilize Magensa's Decrypt Service. These samples are not meant for production code and should only be used as examples. Code samples are provided in the below languages. All code samples are basic console applications, including a WinForms app for .NET Framework.

- .NET
- Python
- NodeJS
- Java

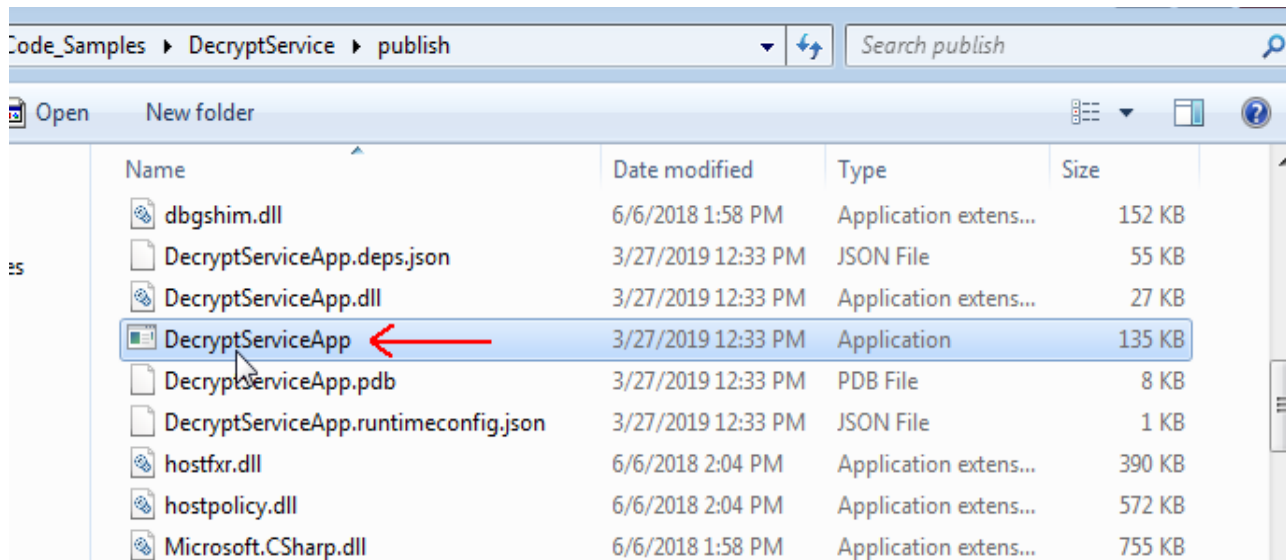
## 2 .Net Console Application

### 2.1 Prerequisites

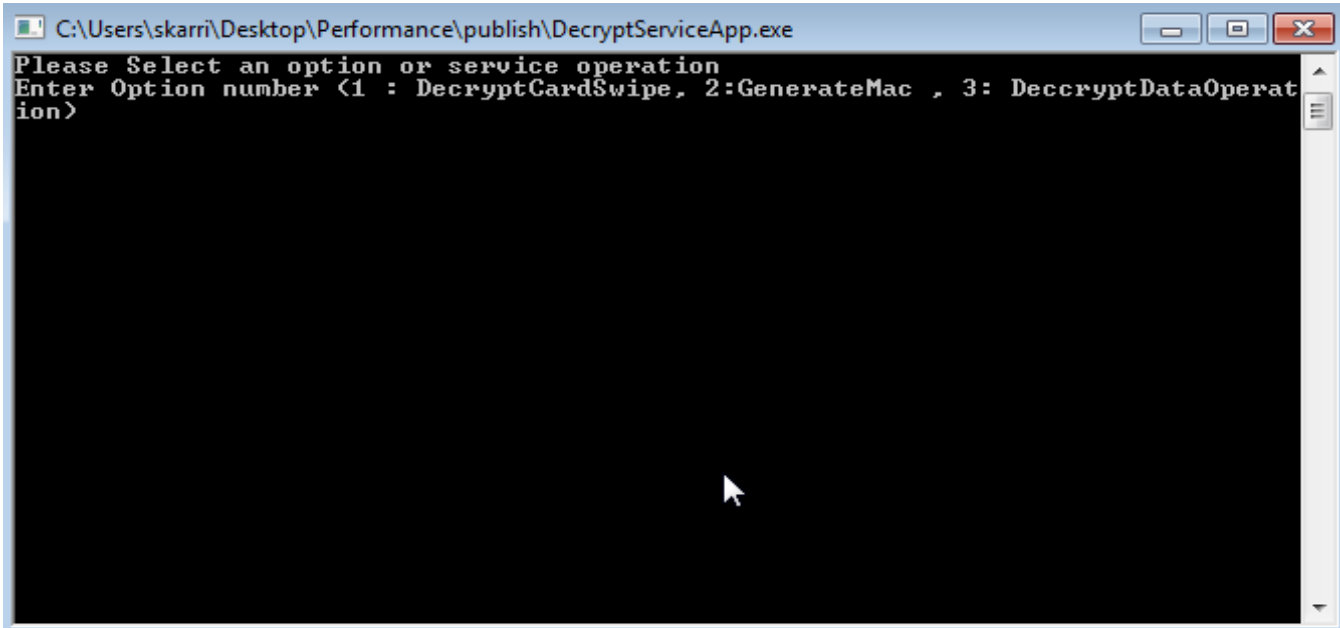
- 1) Install .NET Core 2.1
- 2) Visual Studio IDE
- 3) Generate publish folder

### 2.2 Process

Double click on the "DecryptServiceApp" executable application file in the publish folder.

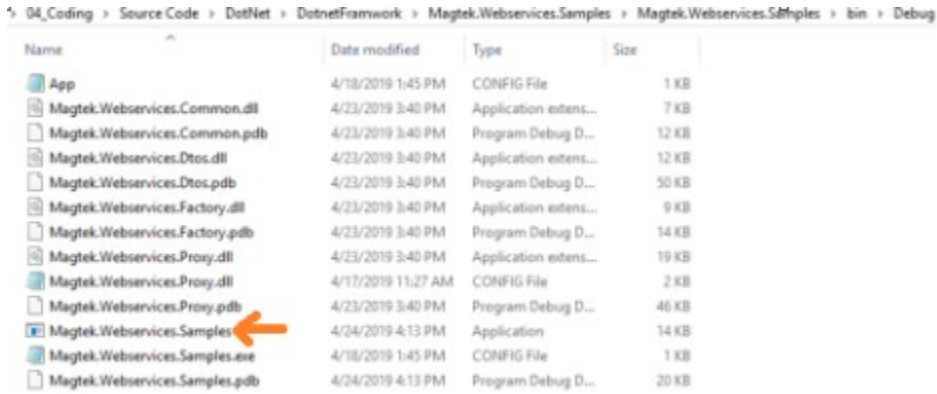


In the console window it will ask for the specific operation of the service.



Select any of the operations and provide the required properties; you should then be able to see the service response shown below:

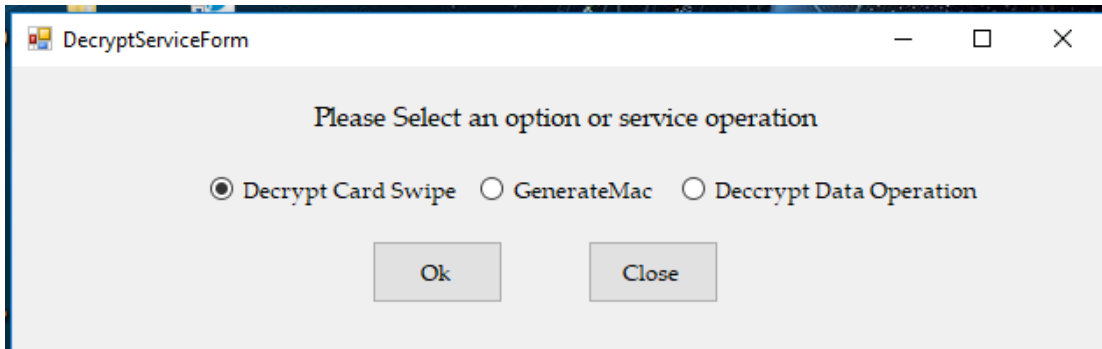




1



A window will open with the 3 possible operations of the Decrypt service.



Choose any operation and click the 'Ok' button. A new window will open with the service input properties, as shown below:

Decrypt Card Swipe Request		Decrypt Card Swipe Response
BillingLabel	<input type="text" value="0"/>	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>
CustomerTransactionID	<input type="text" value="0"/>	
CustomerCode *	<input type="text" value="OSMAGTEK"/>	
Password *	<input type="text" value="OffShoreTestDecryptUserPW"/>	
Username *	<input type="text" value="OffShoreTestDecryptUser"/>	
DeviceSN *	<input type="text" value="B487DA9022119AA"/>	
KSN *	<input type="text" value="9011400B487DA9000007"/>	
KeyType *	<input type="text" value="Pin"/>	
MagnePrint *	<input type="text" value="A4C4870970E452710FCBFD6D3388ECC21"/>	
MagnePrintStatus *	<input type="text" value="61401400"/>	
Track1	<input type="text" value="54EE1021145098EC55772C6C00B0D3CE6BCE1B0266E6483FD76F80243AE9128659"/>	
Track2 *	<input type="text" value="B156DB6D856FA0592C0C3029745053F9C1701836FB35B87E091BEE77E9446E97B8"/>	
Track3	<input type="text"/>	
<input type="button" value="Submit"/> <input type="button" value="Clear"/> <input type="button" value="Cancel"/>		

Enter all the required fields and click on the 'Submit' button. You should then be able to see the response on the right side of the window. This window also contains the 'Clear' and 'Cancel' options as well.

Decrypt Card Swipe Request		Decrypt Card Swipe Response
BillingLabel	<input type="text" value="0"/>	<b>CardID : uISJfty0btbZIRbjfwLWjMrd0l0Es+r4LjGqZh45U1E=</b> CustomerTransactionId : 0 IsReplay : True MagnePrintScore : 0.7584068 MagTranId : 123acc8f-00fa-4e70-b54e-9d1600fca8e7 <b>Decrypted Card Swipe :</b> MagnePrint : 020020882CDC25063DA83890A83E736FC7879F510AEBFD6F150B4D87D8894E9BCDE760932E0CED36C 0702909E6D03808DF16D0026ACE0000 Track1 : %B5325614800013455^CONTACTLESS/MAGTEK D^1909201001000P 00669000000? Track2 : ;5325614800013455=19092010010066910000? Track3 :
CustomerTransactionID	<input type="text" value="0"/>	
CustomerCode *	<input type="text" value="OSMAGTEK"/>	
Password *	<input type="text" value="OffShoreTestDecryptUserPW"/>	
Username *	<input type="text" value="OffShoreTestDecryptUser"/>	
DeviceSN *	<input type="text" value="B487DA9022119AA"/>	
KSN *	<input type="text" value="9011400B487DA9000007"/>	
KeyType *	<input type="text" value="Pin"/>	
MagnePrint *	<input type="text" value="A4C4870970E452710FCBFD6D3388ECC21"/>	
MagnePrintStatus *	<input type="text" value="61401400"/>	
Track1	<input type="text" value="54EE1021145099EC55772C6C00B0D3CE6&lt;br/&gt;BCE1B0266E6483FD76F80243AE9128659"/>	
Track2 *	<input type="text" value="B156DB6D856FA0592C0C3029745053F9C&lt;br/&gt;1701836FB35B87E091BEE77E9446E97B8"/>	
Track3	<input type="text"/>	

## 4 Python Console Applications

### 4.1 Prerequisites

- 1) Install python
- 2) Add Environment Variables
- 3) Install required files for Python

### 4.2 Process

Open the command prompt from the project folder, and type the following command:

```
> python program.py
```

Choose an operation and provide the required input properties to see the response shown below:



```

C:\Windows\System32\cmd.exe - python program.py
E:\SV\MagTekProject\MagTek_DotNetDevelopmentServices\03_Execution\04_Coding\Source Code\Python\Src>python program.py
Please Select an option or service operation
Enter Option number ( 1 : DecryptCardSwipe, 2:GenerateMac , 3: DecccryptDataOperation , 4:Exit)
1
=====Request building start=====
Enter BillingLabel:
Enter CustomerTransactionID:
Enter CustomerCode:OSMAGTEK
Enter Password:OffShoreTestDecryptUserPW
Enter Username:OffShoreTestDecryptUser
Enter DeviceSN:B487DA9022119AA
Enter KSN:90114008487DA9000007
Enter KeyType:Pin
Enter MagnePrint:A4C4870970E452710FCBFD6D3388ECC2121D4B28A0282DEA7523A5E947086B731D28AE31A7C828B89E684A7413006EA5A80BC4851F74EBAC
Enter MagnePrintStatus:61401400
Enter Track1:54EE1021145099EC55772C6C0080D3CE6BCE1B0266E6483FD76F80243AE91286596AD0761840B731EC9A21688B6943B3BE5FE7E605EF732122DC852E14DEF7608B40CBFE2F4891AB
Enter Track2:B156D86D856FA0592C0C3029745053F9C1701836FB35887E0918EE77E9446E97886D00D1CD5597D8
Enter Track3:
=====Request building End=====
(DecryptCardSwipeResponse){
  CustomerTransactionId = None
  IsReplay = True
  MagTranId = "f0dfa34a-8e71-41c5-97b0-6bdd88f74645"
  CardID = "UISJfty0btbZIRbjfwLWjMrd010Es+r4LjGqZh45U1E="
  DecryptedCardSwipe =
    (DecryptedCardSwipe){
      MagnePrint = "020020882CDC25063DA83890AB3E736FC7879F510AEBFD6F150B4D07D8B94E9BCDE760932E0CED36C0702909E6D03808DF16D0026ACE0000"
      Track1 = "%B5325614800013455^CONTACTLESS/MAGTEK D*1909201001000P 0066900000?"
      Track2 = ";5325614800013455-19092010010066910000?"
      Track3 = None
    }
  MagnePrintScore = 0.7584068
}
Would you like to Continue with other Request [y/n(press any key to exit except Y)]

```

**Note:** For any further details for the python console application please consult the Python help document.

## 5 Java Console Applications

### 5.1 Prerequisites

- 1) Install required Java version
- 2) Add Environment Variables

### 5.2 Process

Select project, then right click and choose the “Run As Java Application” option.

Select the operation and provide the required input parameters; you should then see this response:

```

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
  DecryptClientApp
    JRE System Library [JavaSE-1.8]
    src
    Referenced Libraries
    lib
    config.properties
  Console
  Problems
  Debug Shell
DecryptMain (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (May 2, 2019, 5:09:56 PM)
===== Select Operation Choice=====
Please select options 1:DecryptCardSwipeOp 2: GenerateMac 3: DecryptDataOperation
3
Enter BillingLabel for Decrypt
Enter CustomerTransactionID
Enter CustomerCode
OSMAGTEK
Enter Password
OffshoreTestDecryptUserPW
Enter Username
OffshoreTestDecryptUser
Enter EncryptedData
5F260E4080089D81F2DAE45114E285C81C4788395B33C547C231538C7447C3E8CA8430857E491E332640ED83871B5F4A347D6925888B39E870A08AE3DF59E17050F77D83E46F0DE46FC6F0D80B
Enter KSN
90114008487D8C000011
Enter KeyType
Data
=====Response Details=====
CustomerTransactionId: {}
DecryptedData: FC820102F28200FE820239008E12000000000000004203440341031E031F035F24031909305F25031711019F0607A00000000410109F0702FFC09F00050C508C0009F0E050
IsReplay: true
MagTranId: 1dc8c3e7-a0d6-4876-9d1d-e29c568269f9
=====Response Details=====
would u like to continue(yes/no)

```

**Note:** For any further details on the Java console application, please review the Java help documentation.

## 6 NodeJS Console Applications

### 6.1 Prerequisites

- 1) Install python
- 2) Add Environment Variables
- 3) Install required files for Python

### 6.2 Process

Open the command prompt from the project folder, and type the following command:

```
> node app.js
```

```

C:\Windows\System32\cmd.exe - node app.js
Microsoft Windows [Version 10.0.16299.904]
(c) 2017 Microsoft Corporation. All rights reserved.

E:\SVNMagTekProject\MagTek_DotNetDevelopmentServices\03_Execution\04_Coding\Source Code\NodeJs\Src>node app.js

Please Select an option or service operation
Enter Option number ( 1 : DecryptCardSwipe, 2:GenerateMac , 3: DeccryptDataOperation , 4:Exit) 4

```

