ProPay Mobile Processing Solutions

Simulated Responses

Version 6.18.3

ProPay Supported Swipe Devices

ProPay approved swipe devices encrypt credit card track data at the head as the card is swiped. The encrypted data is then transmitted to the connected device as an encrypted block. Elements of the encrypted block can be submitted to various methods of the ProPay API.

Make	Model	Part Number	
Dynamag	MagTek Dynamag	21073075	
FLASH Card Reader 1.0	MagTek MagneSafe m20	21073034 (Rev–F)	
FLASH Card Reader 2.0	MagTek flash	21073081 (Rev–C)	
JAK 3.0	Magtek aDynamo	21073111	
JAK 4.0	Roam	G5X	

A list of compatible Phones for JAK 3.0/4.0 can be found at:
http://www.propay.com/products-services/accept-payments/jak-card-reader/androiddevices/

Software Development Kit

ProPay offers a .NET Software Development Kit for the ProPay supported devices to assist developers in incorporating a swipe device into their developed or developing software solution. Please request additional information from your relationship manager.

Supported API Methods

The following ProPay API methods accept encrypted track data:

- 4.3.2 Credit Card Authorization Transaction
- 4.3.4 Credit Card Authorization Transaction

- 4.4.3 ProPay SplitPay Transaction

The following ProtectPay API methods accept encrypted track data:

- 4.3.2 Create a PaymentMethodId with Encrypted Block Data
- 4.4.3 Authorize a Payment Method with Encrypted Block Data
- 4.5.3 Process a Payment Method with Encrypted Block Data
- 4.8.2 ProPay SplitPay Transaction with Encrypted Block Data

Swipe Device Required Parameters

On supported transaction types, encrypted swipe device data may be submitted, which may vary slightly based on the device type.

Encrypted Swipe Device Elements

Element	Type
encryptingDeviceType	Character String
keySerialNumber	Base64 Encoded Hexadecimal String
encryptedTrackData	Base64 Encoded Hexadecimal String
encryptedTrack2Data	Base64 Encoded Hexadecimal String

Unencrypted Swipe Device Elements

Element	Type
track1	Character String
track2	Character String

- Not all devices return 2 Encrypted Tracks
- The second track should only be submitted if the device supplies it.

Device Type Enumerative List

Request should contain a value that designates the type of device from which encrypted data is drawn. Please consult the following table for valid Enumerative values used to specify device:

Model	Enumerative Value
Magtek aDynamo	MagTekADynamo
MagTek Dynamag	MagTekDynamag
MagTek Dynamag	MagTekDynamag
Roam G5X	RoamData

Submitting Encrypted Data to the API

The raw data from each swipe device is returned as a hexadecimal value. Both the Key Serial Number `<ksn>` and `<EncryptedTrackData>` and/or `<EncryptedTrack2Data>` values should be submitted as Base64 encoded hexadecimal value string and not a Base64 character string.

MAGTEK Sample

Sample Device Data Dump

```
EncryptionStatus=0206
SDK.Version=101.21
Reader.Type=1
Track.Status=000002
KSN=9010240B154C5400059F
Track1.Masked=%B5102650005008881^TEST/INTEGRATION^19051010000000000000000000000000000000000?
Track2.Masked=;5102650005008881=19051010000000000000?
Track1.Encrypted=B3AC05A0D8B595F21C5BBCCEB382601279ED67D46A2FEB5AFBB26493C309BF5A050CA68BB30712977D8857C
080A7F41251CAC18740EB3072
Track2.Encrypted=A718FFDBE97F343F792336D15BE6934EF5D17659796FCAB87A5768509C56B6DB23C3A2905CA2FD97
MagnePrint.Encrypted=
```

```
MagnePrint.Status=
Card.IIN=510265
Card.Name=TEST/INTEGRATION
Card.Last4=8881
Card.ExpDate=1905
Card.SvcCode=101
Card.PANLength=16
Device.Serial=B846B70420002500
```

Sample API Submission

```
<encryptingDeviceType>MagTekDynamag</encryptingDeviceType>
<keySerialNumber>kBAkCxVMVAAFnw==</keySerialNumber>
<encryptedTrackData>s6wFoNi1lfIcW7zOs4JgEnntZ9RqL+ta+7Jkk8MJv1oFDKaLswcSl32IV8CAp/QSUcrBh0DrMHI=</encryp
tedTrackData>
<encryptedTrack2Data>pxj/2+l/ND95IzbRW+aTTvXRdll5b8q4eldoUJxWttsjw6KQXKL9lw==</encryptedTrack2Data>
```

MAGTEK KBE Sample (Keyboard Emulator)

Sample Device Data Dump

```
%B5102000000001574^TEST/INTEGRATION^19110000000000000?;5102000000001574=191100000000000000000?|0600|FD3EC
D4B76B86DA3355CC4A2E3F94FD8BFF2DB6251F6EAED2E6D41538042EA1258BC3E08F3CCA3718CDC16F41A59115BBAAE4F5193439
6DB|7BB2E8106D6FC66E5947EAAE78B92E67C08753AD6B827CBF5FE2A8CF361671087E4B5807E162477A||61401000|14006546F
2792145D8893590361CABDA288BA8D7763B0A27006596B93A3E9B2800E06D7973A6FA93A2C317F572C353247F531706946EDF32|
B39740E022817AA|A5F307595C0E0280|9010240B39740E00000E|F125||0000
```

Pipe '|' Delimited Array Elements From Swipe:

```
[0]%B5102000000001574^TEST/INTEGRATION^19110000000000000?;5102000000001574=191100000000000000000?
[1]0600
[2]FD3ECD4B76B86DA3355CC4A2E3F94FD8BFF2DB6251F6EAED2E6D41538042EA1258BC3E08F3CCA3718CDC16F41A59115BBAAE4F51934
396DB
[3]7BB2E8106D6FC66E5947EAAE78B92E67C08753AD6B827CBF5FE2A8CF361671087E4B5807E162477A
[4]
[5]61401000
[6]14006546F2792145D8893590361CABDA288BA8D7763B0A27006596B93A3E9B2800E06D7973A6FA93A2C317F572C353247F531706946
EDF32
[7]B39740E022817AA
[8]A5F307595C0E0280
[9]9010240B39740E00000E
[10]F125
[11]
[12]0000

Element [2] - Encrypted Track 1
Element [3] - Encrypted Track 2
Element [9] - Key Serial Number
```

Sample API Submission

```
<encryptingDeviceType>MagTekDynamag</encryptingDeviceType>
<keySerialNumber>kBAkCzl0DgAADg==</keySerialNumber>
<encryptedTrackData>/T7NS3a4baM1XMSi4/lP2L/y22JR9urtLm1BU4BC6hJYvD4I88yjcYzcFvQaWRFbuq5PUZNDlts=</encryptedTra
ckData>
<encryptedTrack2Data>e7LoEG1vxm5ZR+queLkuZ8CHU61rgny/X+KozzYWcQh+S1gH4WJHeg==</encryptedTrack2Data>
```

ROAM Sample

Sample Device Data Dump

```
cardholderName: TEST/INTEGRATION
track1Status: 0
expiryDate: 1905
track2Status: 0
formatID: 32
ksn: 77764121300128E00190
maskedPAN: 5102XXXXXXXX8881
encTrack:
0d01464640ef4a10bf7b46571e49bad81d744e49ad726e1a9f6e1ea7058057c47066166eddd92fc3aa9e390d3102d133af114de2
580602cf0000000000000000000000000000000000000000000000004c761247347ea14734aff8e34f39900b1408a0515672e00c
378a7ed8ba8a6f67d13f406051b880b7
packEncTrackData:
$32$DQFGRkDvShC/e0ZXHkm62B10Tkmtcm4an24epwWAV8RwZhZu3dkvw6qeOQ0xAtEzrxFN4lgGAs8AAAAAAAAAAAAAAAAAAAAAAAA
AAAAAABMdhJHNH6hRzSv+ONPOZALFAigUVZy4Aw3in7YuopvZ9E/QGBRuIC3
```

Sample API Submission

```
<encryptingDeviceType>RoamData</encryptingDeviceType>
<keySerialNumber>d3ZBITABKOABkA==</keySerialNumber>
<encryptedTrackData>DQFGRkDvShC/e0ZXHkm62B10Tkmtcm4an24epwWAV8RwZhZu3dkvw6qeOQ0xAtEzrxFN4lgGAs8AAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAABMdhJHNH6hRzSv+ONPOZALFAigUVZy4Aw3in7YuopvZ9E/QGBRuIC3</encryptedTrackData>
```

Submitting Unencrypted Data to the API (Legacy ProPay Only)

In the test environment, the following track data will work in a manner similar to that when card number 4747474747474747 is used:

<track1>%B4747474747474747^SHINKLE/ROBIN ^20061011000006980?</track1>
<track2>;4747474747474747=20061011000000006980?</track2>