

## Point-to-Point Encryption

When swiping a card using an encrypting Magnetic Swipe Reader (MSR) or PIN pad, the card data is encrypted inside the MSR or PIN pad, providing encryption from the point of swipe, i.e. Point-to-Point Encryption (P2PE).

For a list of supported devices, go to [www.shift4.com](http://www.shift4.com) and select **Lighthouse Transaction Manager > INTEGRATIONS > Third-Party Devices**.

### Using P2PE with 4Go

When using 4Go<sup>®</sup>, no changes to the Point of Sale (POS) or Property Management Systems (PMS) are required to enable P2PE. Simply connect a supported MSR P2PE device and enable it in Lighthouse Transaction Manager 4Go Terminal Settings.



**Note:** For additional information on configuring 4Go Terminal Settings, see the *4Go Technical Installation Guide* located in Lighthouse Transaction Manager Help.

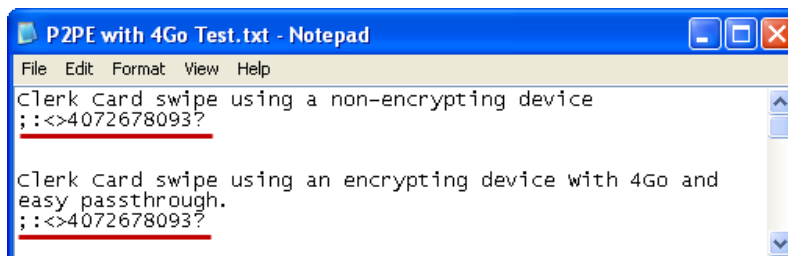
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### Determining the Format of Non-Sensitive, Swiped Card Data

Supported MSR P2PE devices will encrypt any swiped card data resembling a payment card, regardless of the Easy Pass Through setting configured in 4Go Terminal Settings.

To determine if your non-sensitive, swiped card data will pass through 4Go when a supported MSR P2PE device is in use, complete the following steps:

1. Connect your existing MSR to a PC running the Universal Transaction Gateway<sup>®</sup> (UTG<sup>®</sup>) and 4Go.
  2. Open Notepad.
  3. Swipe a non-sensitive card (for example, a hotel room key, membership card, or clerk card).
  4. Connect your new, supported MSR P2PE device.
  5. Swipe the same non-sensitive card.
  6. Review the results of both swipes in Notepad.
- If the results are the same for both devices, your non-sensitive, swiped card data will pass through 4Go.



- If the results are not the same for both devices, the supported MSR P2PE device will encrypt your non-sensitive, swiped card data instead of letting it pass through 4Go. In this scenario, the non-sensitive cards cannot be used with the supported MSR P2PE device.

### Using P2PE without 4Go

When not using 4Go, the interface will have to pass the encrypted swipe in a new field or data block.

In addition, some supported MSR P2PE devices in Keyboard mode will send swiped data directly to the field with focus; for devices in USB HID mode, the interface can receive the swiped data directly.

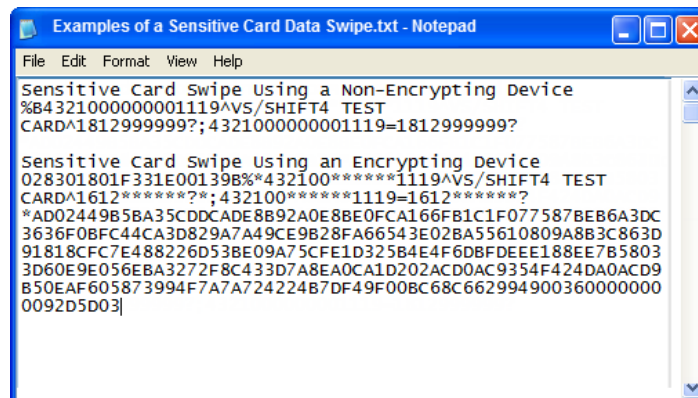
To switch to USB HID mode, a command will need to be sent to the device. For instructions, please see the documentation for the specific device.



**Note:** To determine if your POS/PMS supports P2PE without 4Go, contact the Shift4 Payments Customer Support team at 702.597.2480, option 2.

### Examples of a Sensitive Card Data Swipe

An encrypted swipe is larger than an unencrypted swipe, and Shift4 Payments supports encrypted blocks up to 4KB.



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Examples of a Sensitive Card Data Swipe.txt - Notepad
File Edit Format View Help
Sensitive Card Swipe Using a Non-Encrypting Device
%B432100000001119^VS/SHIFT4 TEST
CARD^1812999999?;432100000001119=1812999999?

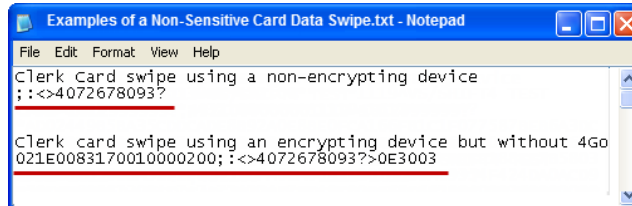
Sensitive Card Swipe Using an Encrypting Device
028301801F331E00139B%*432100*****1119^VS/SHIFT4 TEST
CARD^1612*****?*;432100*****1119=1612*****?
*AD02449B5BA35CDDCADE8B92A0E8BE0FCA166F81C1F077587BEB6A3DC
3636F0BFC44CA3D829A7A49CE9B28FA66543E02BA55610809A8B3C863D
91818CFC7E488226D53BE09A75CFE1D325B4E4F6DBFDEEE188EE7B5803
3D60E9E056EBA3272F8C433D7A8EA0CA1D202ACD0AC9354F424DA0ACD9
B50EAF605873994F7A7A724224B7DF49F00BC68C662994900360000000
0092D5D03]
    
```

### Examples of a Non-Sensitive Card Data Swipe

P2PE devices will encrypt any swiped card data resembling a payment card.

In addition, the P2PE devices will add data before and after the track swipe of non-sensitive, swiped card data (for example, a hotel room key, membership card, or clerk card).

In this scenario, the POS/PMS may have to parse the swipe data in order to use the non-sensitive cards with the P2PE device.



## Using P2PE with Lighthouse Transaction Manager

Swiping with encrypting devices, as well as non-encrypting devices, is supported in Lighthouse Transaction Manager without any additional configuration.

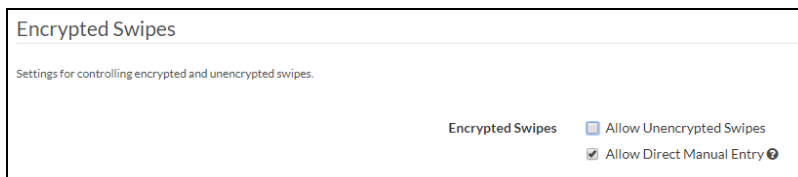
Simply connect a supported P2PE device to the computer in which Lighthouse Transaction Manager will be accessed.

## Configuring Lighthouse Transaction Manager to Only Accept Encrypted Swipes

Once encrypting swipe devices have been deployed to all users, Lighthouse Transaction Manager can be configured to only accept encrypted swipes during online/offline entry and IT'S YOUR CARD® gift card transactions.

To configure Lighthouse Transaction Manager to only accept encrypted swipes, complete the following steps:

1. Log in to Lighthouse Transaction Manager as the Account Administrator.
2. From the menu, select **Settings > General Settings**.
3. In the Encrypted Swipes section, complete the following steps:
  - Clear **Allow Unencrypted Swipes**.
  - *(Optional)* Allow Direct Manual Entry is selected by default to accept manually entered card numbers during online/offline entry and IT'S YOUR CARD gift card transactions in Lighthouse Transaction Manager. To only accept swiped card numbers into your account (and disable manual card entry), clear this option.
  - Click **Save Changes**.



**WARNING!** Once you have cleared the Allow Unencrypted Swipes field and saved the change, unencrypted swipes will not be accepted and an error message will be displayed: Invalid (or unencrypted) swipe data. Please reswipe your card.