SLIM CD Receipts & Signatures

# Introduction

The SLIM CD libraries support the capture, upload and download of signatures to SLIM CD. These signatures can be retrieved as images so they can be put on receipts. In addition, there are new receipt requirements when EMV transactions are performed. Slim CD makes the additional data available to developers as either plain text or XML, so that developers can place the data onto their own receipts.

# RECEIPTS

Slim CD offers services that help developers use our receipts or produce their own receipts with the signature captured by Slim CD software.

## Signature Capture

SLIM CD stores signatures in a variety of formats. We have two types of web services:

1. Web services that let developers upload and download bitmaps of signatures. These do not get printed on receipts from SLIM CD, as we are simply allowing you to upload and download the images.
2. Web services that let you send data as vectors and retrieve those vectors as bitmaps. Those images will be printed on Slim CD receipts, and can be returned as bitmaps. Slim CD’s software stores signature stored as vectors when using the VeriFone and Ingenico devices. They both support 3-byte-ascii format.

## Printing Slim CD-Generated Receipts

Slim CD can generate receipts for the merchant, as is done for our mobile, web and SlimCD for PC products. The receipt is returned as plain-text so that it can be manipulated in a variety of ways. There are also HTML options available.

Developers can have SLIM CD generate a receipt, then merge the image onto the receipt while printing. Receipts with images contain the string “[SIGNATURE ON FILE]”. Simply print the receipt up to the line containing “[SIGNATURE ON FILE]’”. Replace that line by printing the image, and print the remaining text of the receipt.

## Printing Custom Receipts

To print a custom receipt, we recommend allowing the Slim CD software to capture the signature and store the data on Slim CD’s servers. The developer can request the data as raw vectors, Or as a variety of bitmap formats (where our servers draw the image and download the requested size/format)

# WEB SERVICE CALLS / LIBRARY ENTRY POINTS

The following calls allow the developer to send and retrieve data in order to create a receipt solution that best fits their needs.

## Get Slim CD Receipt Text

You can get fully formatted receipt text from Slim CD. You can find documentation here:

<http://developer.slimcd.com/?page_id=2122>

## Uploading Signature Data

Slim CD allows either vector or bitmap data to be uploaded with the *UploadSignature* service.

<http://developer.slimcd.com/?page_id=2132>

## Downloading Signature Data

To get raw signature data in the original format as it was uploaded, call *DownloadSignature*.

 <http://developer.slimcd.com/?page_id=2120>

## Getting a Signature as an Image

If a signature was captured by Slim CD software or uploaded in one of the supported vector images, you can retrieve the data using *GetSignatureImage.*

<http://developer.slimcd.com/?page_id=2124>

*Note that the SLIM CD Libraries return the data as type IMAGE so that it’s ready to display or print.*

## EMV Data on Receipts

Some receipts will need to contain EMV data tags. If you are printing your own receipts, you will want to get the EMV data from Slim CD’s web services.

<http://developer.slimcd.com/?page_id=3819>

This web service can return either TEXT/PLAIN data or XML. The text/plain data can be placed on any receipt below the normal payment information. The XML can be parsed to determine the tags and create your own receipt in whatever display or printing format you desire.

# REVIEW OF OPTIONS FOR RECEIPTS

Below is a brief review of the options for printing receipts with Slim CD

## Receipt Body Options

1. Let Slim CD produce the receipt (but you cannot customize). This will be a text receipt.
2. You print the receipt. You can get the receipt text from Slim CD and print it yourself, or you can produce your own receipt and retrieve the EMV tags to merge onto the receipt.

## Receipt Signature Options

1. Store your own signatures. You can store them locally, or on Slim CD.
2. Let Slim CD store the signatures in vector format and retrieve them as BMP, JPG, TIFF, etc.

## Hints for Receipts

 Developers using Slim CD have had success with the following techniques:

1. Launch our software (TransClient or Slim CD for PC) and allow us to print the receipt.
2. Allow our EMV Device Drivers to capture and upload the signatures. Then get the receipt text from Slim CD (or your own formatting). Request the signature from Slim CD as an image and merge it onto the print stream.

**When printing your own receipts, special consideration needs to be given for EMV transactions to insure the proper EMV data is included in the receipt.**