# SLIM CD API SUPPORT FOR SURCHARGE

# Overview

SLIM CD’s payment gateway allows a developer to program surcharge capability into their services. The surcharge rules require that

1. Only cards with a line of credit attached (true CREDIT cards) can have a surcharge. Cards that have “stored value” or are attached to a bank account (Gift, Check and Debit cards) cannot have surcharge applied EXCEPT in special cases, such as government programs, etc.
2. The consumer must be presented with a “confirmation” screen, showing the surcharge and the new total. If the user does not agree to the new amount, the transaction must be stopped.

There are two approaches to use this feature:

1. Perform a BIN lookup to insure the card is eligible for surcharge, then add the surcharge to the amount to charge the card and provide the surcharge amount in the “surcharge” field on a normal SLIM CD transaction
2. Call the SLIM CD **GetSurcharge** web service to perform the BIN lookup and calculate the surcharge based on the surcharge-percent-on-file stored at SLIM CD, then update the transaction information

When a surcharge can be applied, it is up to the developer to replace the amount in the ProcessTransaction with the new/updated amount (that includes the surcharge) and to send the surcharge amount in a separate field (see ProcessTransaction documentation for the “amount” and “surcharge” fields).

# GetSurcharge

We support GetSurcharge as follows:

1. In a web service call with NAME/VALUE pairs that returns XML

2. In a Restful web service call with NAME/VALUE pairs or JSON, that returns JSON

3. In the SLIM CD .NET library

4. In the SLIMCD.JS JavaScript library

# GetSurcharge Request Fields

The request can contain the following fields:

 username – A SLIM CD login credential or an API ACCESS Credential

 password – Password for a login credential or blank for an API ACCESS Credential

 clientid – The SLIM CD ClientID to use

 siteid - The SLIM CD SiteID to use

 priceid - The SLIM CD PriceID to use

 cardnumber – Cardnumber (for keyed transactions)

 trackdata – Encrypted or unencrypted track data (from which to derive the cardnumber)

 emvtags – Encrypted or unencrypted EMV data (from which to derive the cardnumber)

 gateid – A previous transaction from SLIM CD from which to derive the cardnumber

 encryption\_type – Used for specific legacy cases (no longer needed, leave blank)

 transtype – The type of transaction (typically SALE)

 amount - The original amount

 cardpresent – Indicator of card present (“yes”,”no”, or “0”,”1”)

 country – cardholder’s country for card-not-present (ecommerce), as 2-character abbreviation

 state – cardholder’s state for card-not-present (ecommerce) , as 2-character abbreviation

You MUST send both:

 amount – Original amount

 transtype – One of the SLIM CD transaction types

You must send ONE OF:

 cardnumber

 trackdata

 emvtags

 gateid

# URL ENDPOINTS for Web Service Calls

URL to post to for XML:

 url = "https://trans.slimcd.com/soft/getsurcharge.asp";

URL to post to for JSON:

 https://trans.slimcd.com/soft/json/jsonscript.asp?service=GetSurcharge

# GetSurcharge Response Fields

Response contains the standard SLIM CD

 response

 responsecode

 description

 responseurl

 datablock

Inside the datablock are additional fields for:

amount – Updated amount to use in ProcessTransaction and the confirmation screen

 surcharge – Calculated surcharge amount to use in ProcessTransaction

 surcharge\_message – Message text to show the user, or reason for the FAIL or ERROR

# RESPONSES:

If you call the getsurcharge.asp, you get back XML. Here is an example of the full reply:

### SUCCESS:

<?xml version="1.0" encoding="utf-8"?>

<reply>

 <response>Success</response>

 <responsecode>0</responsecode>

 <description>OK</description>

 <responseurl>/soft/getsurcharge.asp</responseurl>

 <datablock>

 <amount>103.00</amount>

 <surcharge>3.00</surcharge>

 <surcharge\_message>(3% Surcharge on Credit Cards)</surcharge\_message>

</datablock>

</reply>

### FAIL:

<?xml version="1.0" encoding="utf-8"?>

<reply>

 <response>Fail</response>

 <responsecode>1</responsecode>

 <description>(Card not found in CardType/BIN database)</description>

 <responseurl>/soft/getsurcharge.asp</responseurl>

 <datablock>

 <amount>100.00</amount>

 <surcharge>0.00</surcharge>

 <surcharge\_message>(Card not found in CardType/BIN database)</surcharge\_message>

</datablock>

</reply>

### ERROR:

<?xml version="1.0" encoding="utf-8"?>

<reply>

 <response>Error</response>

 <responsecode>2</responsecode>

 <description>Surcharge not enabled for this account</description>

 <responseurl>/soft/getsurcharge.asp</responseurl>

 <datablock>

 <amount>100.00</amount>

 <surcharge>0.00</surcharge>

 <surcharge\_message>Surcharge not enabled for this account</surcharge\_message>

</datablock>

</reply>

#### Note that:

 On a SUCCESS RESPONSE, we display the confirmation page to the user

On a FAIL response, we skip informing the user (and the confirmation page) and process the transaction

On an ERROR, we display the error and stop the transaction (the user must turn off surcharge or contact SLIM CD to configure it on our side)

## JSON:

IF YOU PREFER to receive JSON instead of XML, use the following URL:

https://trans.slimcd.com/soft/json/jsonscript.asp?service=GetSurcharge

You can HTTP POST the name/value pairs or the JSON and you will get back JSON.

You will get the same data fields as shown in the XML response.

SUCCESS:

{

                "response": "Success",

                "responsecode": "0",

                "description": "OK",

                "responseurl": "/soft/getsurcharge.asp",

                "datablock": {

                                "amount": "10.30",

                                "surcharge": "0.30",

                                "surcharge\_message": "(3% Surcharge on Credit Cards)"

                }

}

FAIL:

{

                "response": "Fail",

                "responsecode": "1",

                "description": "(Card not found in CardType/BIN database)",

                "responseurl": "/soft/getsurcharge.asp",

                "datablock": {

                                "amount": "10.00",

                                "surcharge": "0.00",

                                "surcharge\_message": "(Card not found in CardType/BIN database)"

                }

}

ERROR:

{

                "response": "Error",

                "responsecode": "2",

                "description": "Surcharge not enabled for this account",

                "responseurl": "/soft/getsurcharge.asp",

                "datablock": {

                                "amount": "10.00",

                                "surcharge": "0.00",

                                "surcharge\_message": "Surcharge not enabled for this account"

                }

}

## SLIM CD’s .NET Library

The SLIM CD library has the following

 SlimCD.Transact.GetSurchargeRequest req = new SlimCD.Transact.GetSurchargeRequest() ;

 req.username=”xxx” ;

 req.password=”yyy” ;

 ...

 SlimCD.Transact.GetSurchargeReply reply = SlimCD.Transact.GetSurcharge(req) ;

 if (reply.response.ToUpper() == "SUCCESS")

 {

 // Show the message for debugging, this should be replaced with a confirmation screen!

 MessageBox.Show(reply.surcharge\_message) ;

 // If agreed, process the transaction. Else stop.

 }

 else if (reply.response.ToUpper() == “FAIL")

 {

 // Just process the transaction without confirmation or surcharge.

 }

 else

 {

 // Show an error and stop.

 }

## SLIM CD’s JavaScript Library

The SLIM CD JavaScript library has the GetSurcharge and follows the same pattern.

Notes:

The cardnotpresent indicator is only used if the SLIM CD servers are be configured to process cardnotpresent based on billing address information. If so, the getsurcharge calls will require country/state.

By default, (as of May, 2020) the following states do not allow surcharge: CO,KS,MA,ME,CT

If you are a B2B merchant, consider requesting only CT be excluded for surcharge.