BillDesk Payment Gateway Extension for Magento

Version 1.0 (Beta)

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Introduction

BillDesk Payment Gateway extension is a module for the Magento e-commerce platform based websites. BillDesk, being one of the most popular payment gateways in India, has been providing secure, fast and reliable web and mobile payment solutions to Businesses, NGOs and the Government. This module is aimed at providing easy integration of BillDesk Payment Gateway with Magento based Shopping Carts.

In this Beta version, the module will be shipped as a zip file package with manual installation. Going forward, We aiming to roll it out as a full fledged extension which can be installed directly through Magento Connect Manager in Admin panel.

Supported Magento Versions

Magento Community editions starting from 1.6.X.X to 1.9.2.4

1. Download and Installation

This document provides the manual installation steps to download and install the beta version of BillDesk module in Magento based sites. Automatic download and Installation steps through Magento Connect Manager will be made available once the module will be ready to go-live.
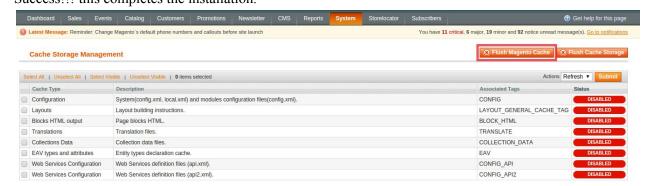
Step 1: Copy files

Download the zip package *"Gateway_billdesk.zip"* and extract the folder. Copy the module files/folders from the extracted folder to the below mentioned paths in your Magento installation.

Module File Path after extraction	Your Magento File Path	Files/Folders to copy
app/code/local/Gateway	app/code/local/	**"Gateway"** folder inside /local folder.
app/design/frontend/base/default/layout/billdesk.xml	app/design/frontend/base/default/layout/	**"billdesk.xml"** file inside /layout folder
app/design/frontend/base/default/template/mbilldesk	app/design/frontend/base/default/template/	**"mbilldesk"** folder inside /template folder.
app/etc/modules/Gateway_Billdesk.xml	app/etc/modules/	**"Gateway_Billdesk.xml"** file inside /modules foldes

Step 2: Clear Magento cache

In case Magento cache is enabled, please clear it through admin panel. New to Magento ? follow the below steps
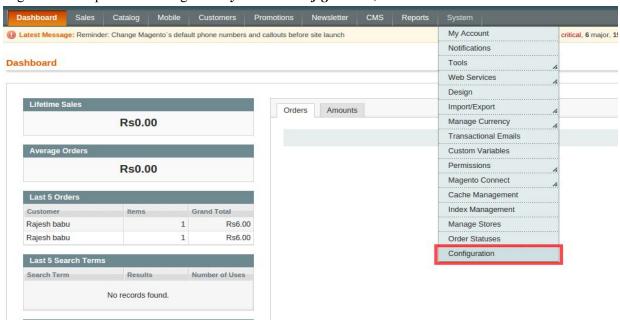Login to admin panel, go to *System → Cache Management,* select all items in the list and click on *Flush Magento Cache* button. Now, logout and login again to check the changes.
Success!!! this completes the installation.

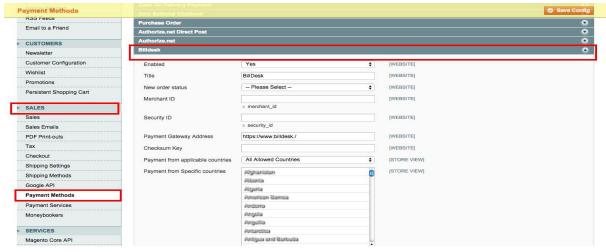# 2. Configuration and Set up

Step 1: Locate BillDesk extension in admin panel

Login to admin panel and navigate to *System → Configuration,*

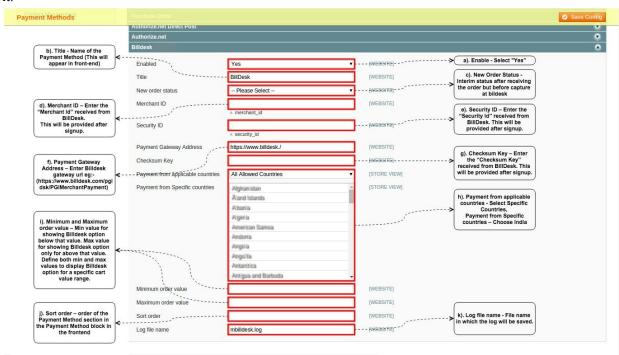## Step 2: Select BillDesk extension

In left navigation menu, go to *Sales → Payment Methods → BillDesk*

Step 3: Fill in the parameters

Fill in the configuration parameters as per the below screenshot and by referring the table followed after it.
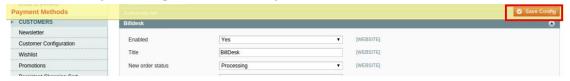

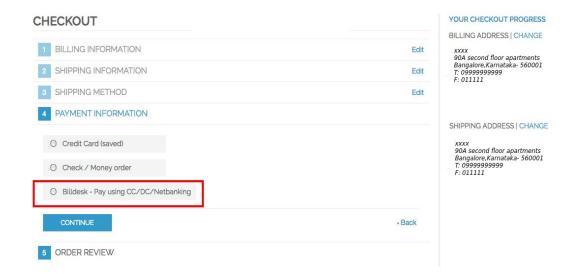| Label	Field	Description
a.	Enabled	Select "Yes"
b.	Title	Leave it as it is or you can modify it. This is what your customers will see as the name of the payment method/gateway in the store frontend.
c.	New Order Status	Select an order status. This will be displayed in the backend when a new order is placed.
d.	Merchant ID	Enter the "Merchant Id" provided to you by BillDesk.
e.	Security ID	Enter the "Security ID" provided to you by BillDesk.
f.	Payment Gateway Address	Please enter Billdesk gateway url provided to you by BillDesk
g.	Checksum Key	Enter the "Checksum Key" provided to you by BillDesk.

h.	Payment from applicable countries & Payment from Specific countries	Select from "Specific countries" and then choose "India"
i.	Minimum order value

Maximum order value | Choose a numerical value. This is to show BillDesk payment option in the store front only when the shopping cart total will be higher than this value.
Choose a numerical value. This is to show BillDesk payment option in the store front when the shopping cart total is up to this value and not beyond it. |
| j. | Sort order | Order of BillDesk Payment Method option in the store front in Payment Method block. |
| k. | Log file name | Leave it as it is (mbilldesk.log). It will be generated automatically in case any errors are found. File path: www/magento/var/log. |

Step 5: Save Configuration

Click on "Save Config" at the top to save the settings.

This completes the BillDesk module configuration. Now, check the payment method option appearing in the store frontend checkout as shown below.

3. Send payment request to BillDesk PG

This section describes the method in which the payment request is sent to BillDesk payment gateway.

Upon receiving a new checkout request in the Magento storefront, a pipe separated message gets created as per the format shown below. Along with that a Checksum value also gets calculated and appended at the end of the message.
(Note :Currently the module supports CRC32 algorithm for Checksum value calculation.)

Payment Request Message Format

MerchantID|CustomerID|NA|TxnAmount|NA|NA|NA|CurrencyType|NA|TypeField1|SecurityID|NA|NA|TypeField2|AdditionalInfo1|AdditionalInfo2|AdditionalInfo3|AdditionalInfo4|AdditionalInfo5|AdditionalInfo6|AdditionalInfo7|Return Response URL|ChecksumValue

Sample Parameters

ABCD|XXX12345|NA|100.00|NA|NA|NA|INR|NA|A|abcd|NA|NA|G|1234567890|FirstName|test@domain.com|Adress|City,State.India.|PostCode|Telephone|http://www.domain.com/response.php|G67BLCUKJHLC978E8JLCKCWICJWKC23AKIJASDH67HGHA123

(Note : Please refer BillDesk PG integration document provided to you for detailed information on each of the above parameters)

After constructing the pipe separated message, it will be sent to BillDesk URL as parameter "msg" for every sale transaction generated in the store front.

4. Receive response from BillDesk

This section covers the method in which success/failure responses are sent back to the store response URL from BillDesk after receiving the payment initiation request.

After the payment transaction has been completed at the bank's site, BillDesk website redirects the user back to your store front with a browser response message. This message will be posted as parameter "msg" to the Return Response URL specified in the initial payment request. This response string along with 11 other data strings will be stored in the database table *"mbilldesk"*.

Payment Response Message Format

MerchantID|CustomerID|TxnReferenceNo|BankReferenceNo|TxnAmount|BankID|BankMerch antID|TxnType|CurrencyName|ItemCode|SecurityType|SecurityID|SecurityPassword|TxnDa te|AuthStatus|SettlementType|AdditionalInfo1|AdditionalInfo2|AdditionalInfo3|AdditionalInf o4|AdditionalInfo5|AdditionalInfo6|AdditionalInfo7|ErrorStatus|ErrorDescription|CheckSum

Sample Response Message

ABCD|XXX12345|ABCI0128973413|NA|100.00|SBI|11340356|NA|INR|NA|NA |NA|NA|14-03-2015 18:10:12|0300|NA|5678|xxxx|test@domain.com|90A second floor apartments|Bangalore,Karnataka. India.|560001|9999999999|http://www.domain.com/response.php|NA|NA| 7SGT99USCD562345BHBJCDC8BTED8H6R3GF99GT

Note : Please refer BillDesk PG integration document provided to you for more information on different AuthStatus codes and messages sent in response.

5. Database

Upon installing the module, *"mbilldesk"* table gets added to your store database. Below is the structure and data fields stored in the DB.

1. billdesk_id - int(11)
2. order_id - int(15)
3. transaction_id - varchar(15)
4. amount - int(15)
5. txn_date_time - varchar(30)
6. status_id - int(5)
7. customer_id - int(15)
8. customer_name - varchar(50)
9. customer_email - varchar(50)
10. status_message - varchar(50)
11. http_referer - varchar(1000)
12. response_string - varchar(5000).