
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 folder

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.

DashboardSalesEventsCatalogCustomersPromotionsNewsletterCMSReportsSystemStorelocatorSubscribersGet help for this page

Latest Message: Reminder: Change Magento's default phone numbers and callouts before site launch

You have 11 critical, 6 major, 19 minor and 92 notice unread message(s). [Go to notifications](#)

Cache Storage Management

Flush Magento Cache

Flush Cache Storage

Select All | Unselect All | Select Visible | Unselect Visible | 0 items selected

Actions Refresh Submit

Cache Type	Description	Associated Tags	Status
<input type="checkbox"/> Configuration	System(config.xml, local.xml) and modules configuration files(config.xml).	CONFIG	<div>DISABLED</div>
<input type="checkbox"/> Layouts	Layout building instructions.	LAYOUT_GENERAL_CACHE_TAG	<div>DISABLED</div>
<input type="checkbox"/> Blocks HTML output	Page blocks HTML.	BLOCK_HTML	<div>DISABLED</div>
<input type="checkbox"/> Translations	Translation files.	TRANSLATE	<div>DISABLED</div>
<input type="checkbox"/> Collections Data	Collection data files.	COLLECTION_DATA	<div>DISABLED</div>
<input type="checkbox"/> EAV types and attributes	Entity types declaration cache.	EAV	<div>DISABLED</div>
<input type="checkbox"/> Web Services Configuration	Web Services definition files (api.xml).	CONFIG_API	<div>DISABLED</div>
<input type="checkbox"/> Web Services Configuration	Web Services definition files (api2.xml).	CONFIG_API2	<div>DISABLED</div>

2. Configuration and Set up

Step 1: Locate BillDesk extension in admin panel

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

The screenshot shows the Magento 2 Admin Panel. The top navigation bar includes tabs for Dashboard, Sales, Catalog, Mobile, Customers, Promotions, Newsletter, CMS, Reports, and System. A red box highlights the 'System' tab. Below the navigation bar, a sidebar menu lists various system configuration options: My Account, Notifications, Tools, Web Services, Design, Import/Export, Manage Currency, Transactional Emails, Custom Variables, Permissions, Magento Connect, Cache Management, Index Management, Manage Stores, Order Statuses, and Configuration. The 'Configuration' option is highlighted with a red box. The main content area shows the 'Dashboard' with various sales and order statistics.

Step 2: Select BillDesk extension

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

The screenshot shows the Magento 2 Admin Panel with the 'Payment Methods' section selected in the left navigation menu. The 'BillDesk' extension is highlighted with a red box. The configuration page for BillDesk is displayed, showing various settings such as Enabled, Title, New order status, Merchant ID, Security ID, Payment Gateway Address, Checksum Key, Payment from applicable countries, and Payment from Specific countries. The 'Enabled' checkbox is checked, and the 'Title' is set to 'BillDesk'. The 'New order status' is set to 'Please Select'. The 'Merchant ID' and 'Security ID' fields are empty. The 'Payment Gateway Address' is set to 'https://www.billdesk/'. The 'Checksum Key' field is empty. The 'Payment from applicable countries' is set to 'All Allowed Countries'. The 'Payment from Specific countries' dropdown menu is open, showing a list of countries including Afghanistan, Albania, Algeria, American Samoa, Andorra, Angola, Argentina, Armenia, and Aruba.

Step 3: Fill in the parameters

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

The screenshot displays the 'Payment Methods' configuration page for BillDesk. The 'Purchase Order' tab is active, showing the configuration for the 'BillDesk' payment method. The fields are as follows:

- Enabled:** Set to 'Yes'.
- Title:** 'BillDesk'.
- New order status:** '-- Please Select --'.
- Merchant ID:** 'merchant_id'.
- Security ID:** 'security_id'.
- Payment Gateway Address:** 'https://www.billdesk/'.
- Checksum Key:** (Empty).
- Payment from applicable countries:** 'All Allowed Countries'.
- Payment from Specific countries:** A list of countries including Afghanistan, Åland Islands, Albania, Algeria, American Samoa, Andorra, Angola, Argentina, Antarctica, and Antigua and Barbuda.
- Minimum order value:** (Empty).
- Maximum order value:** (Empty).
- Sort order:** (Empty).
- Log file name:** 'mbilldesk.log'.

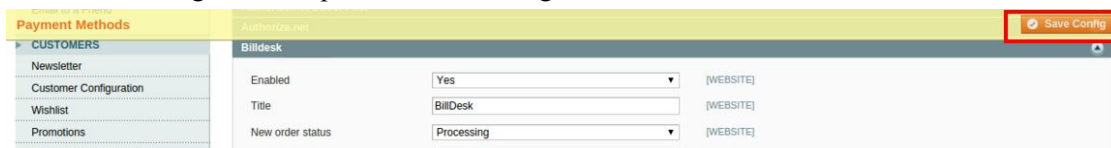
Callouts provide additional instructions: (a) Enable - Select "Yes"; (b) Title - Name of the Payment Method; (c) New Order Status - Interim status after receiving the order but before capture at bildesk; (d) Merchant ID - Enter the "Merchant Id" received from BillDesk; (e) Security ID - Enter the "Security Id" received from BillDesk; (f) Payment Gateway Address - Enter BillDesk gateway url; (g) Checksum Key - Enter the "Checksum Key" received from BillDesk; (h) Payment from applicable countries - Select Specific Countries; (i) Minimum and Maximum order value - Min value for showing Billdesk option; (j) Sort order - order of the Payment Method block; (k) Log file name - File name in which the log will be saved.

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.

CHECKOUT

1 BILLING INFORMATION Edit

2 SHIPPING INFORMATION Edit

3 SHIPPING METHOD Edit

4 PAYMENT INFORMATION

☐ Credit Card (saved)
 ☐ Check / Money order
 ☐ BillDesk - Pay using CC/DC/Netbanking

CONTINUE

Back

5 ORDER REVIEW

YOUR CHECKOUT PROGRESS

BILLING ADDRESS | CHANGE

xxxx
 90A second floor apartments
 Bangalore,Karnataka- 560001
 T: 09999999999
 F: 011111

SHIPPING ADDRESS | CHANGE

xxxx
 90A second floor apartments
 Bangalore,Karnataka- 560001
 T: 09999999999
 F: 011111

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|BankMerchantID|TxnType|CurrencyName|ItemCode|SecurityType|SecurityID|SecurityPassword|TxnDate|AuthStatus|SettlementType|AdditionalInfo1|AdditionalInfo2|AdditionalInfo3|AdditionalInfo4|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).