



EBS INTEGRATION GUIDE Version 3.0.1

g Solutions Pvt Ltd.

Page 1

E Billing Solutions Pvt. Lta

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## 1. INTRODUCTION

This document works as a guide for Merchants on understanding the EBS payment gateway Integration. This integration will allow the Merchant to have the Payment option Selection. This integration will also allow Credit card details to be captured on the Merchant website itself, on meeting the following pre-requisites.

## **2. PRE-REQUISITE**

For capturing Credit card details on the Merchant website, the Merchant application should be in compliance to PCI DSS. For more details on PCI DSS, please refer **APPENDIX D**.

EBS should enable the Option for Merchant to capture Credit card data.

#### **3. ENVIRONMENT DETAILS**

Test card details that can be used for testing purpose are as below VISA - 411111111111111 - 07/16(Exp.) - 123(CVV) Card Holder Name: Test, Issuing Bank - Test Please Note: No other card number will be supported in test phase.

#### i. Payment Request URL:

Production – https://secure.ebs.in/pg/ma/payment/request

#### ii. Integration Kit

Kindly browse the following link to download Integration Kit/Shopping carts. <u>http://support.ebs.in/index.php? m=downloads& a=view</u>

## **3. SALE PROCESS FLOW**



- Customer selects to check out on the Merchant Website.
- Merchant Website will redirect the Customer to EBS Payment Page.
- Customer Selects Payment Method (Credit Card, Debit Card, Net banking, Cash Card) and Payment option on the Merchant Website. If the Customer selects Credit or Debit cards, he will be asked to provide the credit card number or the debit card number respectively.

- Transaction is screened and Customer is redirected to respective Acquirer for processing.
- Customer is redirected back to Merchant Website with the response.

## **4. INTERNAL STATUS FLOW**



#### **Status Details:**

- I. Authorized Payments—Payments which are completed successfully
- II. Flagged Payments Payments which are completed are successfully and are flagged by Fraud Screening System. Order will not be processed in this tate. These payments will be reviewed manually by EBS internal team and un-flagged or Cancel.
- **III. Captured** Payments captured by the Merchant.
- **IV. Refund** Payments refunded by the Merchant to the Customer.
- V. Charge Back Payments which are refunded forcefully by EBS for any

complaints raised by the Customer with the Card provider or Card Brands.

## **5. MERCHANT WEBSITE INTEGRATION**

#### i. Integration Mode

There are two modes that are provided by the gateway:

Standard mode: In this mode, all the payment details would be collected in the EBS payment page for payment transaction.

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Direct mode: In this mode, payment card details would be collected in the merchant website and redirected to the appropriate issuing bank to complete the transaction. In

case of net banking using this mode, the merchant should set the channel value to "0"

and pass the payment option parameter to EBS.

Parameter	Description	Туре	Min	Max	Mandatory
channel	The payment channel. Give '0' for Standard or '2' for Direct Mode	numeric	1	1	YES
account_id	Your Account ID	numeric	-	-	YES
reference_no	Your Reference Number	char	1	20	YES
amount	Total Sale Amount	decimal	1	14,2	YES
mode	Mode of the LIVE => live, TEST => test	char	LIVE or TEST	LIVE or TEST	YES
currency	Currency INR	Char	3	3	YES
description	Detail description of the sale	char	1	255	YES
return_url	This is the url you want EBS to return back after transaction is successful	char	1	255	YES
name	Customer billing Name	char	1	128	YES
address	Customer billing address	char	1	255	YES

#### ii. Request Parameter Details

	city	Customer billing city	char	1	32	YES
	state	Customer billing state	char	1	32	NO
C	ountry	Customer billing country. [3 Digit ISO3 country code- refer Appendix C]	char	3	3	YES
k	oostal_code	Customer billing postal code	char	1	10	YES
K	hone	Customer billing phone	char	5	20	YES
e	email	Customer billing email	char	1	100	YES
s	hip_name	Customer delivery Name	char	1	255	NO
s	hip_address	Customer delivery address	char	1	255	NO
s	hip_city	Customer delivery city	char	1	32	NO
S	hip_state	Customer delivery state	char	1	32	NO
S	hip_country	Customer delivery country[3 Digit ISO3 country code- refer Appendix C]	char	3	3	NO
S	hip_postal_code	Customer delivery postal code	char	1	10	NO
s	hip_phone	Customer delivery phone	char	5	20	NO
k	oank_code	Bank code provided by EBS	char	1	5	NO
r	name_on_card	Name of the card holder. Only for Direct mode	char	1	20	YES
C	ard_number	Credit card number. Only for Direct mode	numeric	13	19	YES
C	ard_expiry	Expiry date of the credit card. [Format: MMYY] Only for Direct mode.	numeric	4	4	YES
ŕ	ayment_option	Payment option code provided by EBS. Only for standard mode	char	1	5	NO
F	ayment_mode	Give 1 for Credit Card , 2 for Debit Card,3 for Net Banking, 4 for Cash Card, 5 for Credit Card – EMI, 6 for Credit Card	numeric	-	-	NO

card_brand	Give 1 for VISA, 2 for MasterCard, 3 for Maestro, 4 for Diners Club, 5 for American Express and 6 for JCB	numeric	-	-	NO
emi	EMI period like 3, 6,9,12 etc. for Credit Card.	char	1	2	NO
page_id	The id of the customized page	char	1	2	NO
card_cvv	CVV number of the credit card. Only for Direct mode.	numeric	3	4	YES
secure_hash	Hash value calculated	char	32	32	YES

#### iii. Sample HTML form For Direct Mode

The link between Merchant website and EBS Payment page has to be maintained on the last

page of the shopping basket on Merchant website.

Below are the parameters to be posted to EBS.

<form method="post" action="https://secure.ebs.in/pg/ma/payment/request"</pre> name="frmTransaction" id="frmTransaction" > <input name="channel" type="hidden" value="2" /> <input name="account\_id" type="hidden" value="XXXX" /> <input name="reference no" type="hidden" value=" XXXX " /> <input name="amount" type="hidden" value=" XXXX " /> <input name="mode" type="hidden" value=" XXXX " /> <input name="currency" type="hidden" value="INR" /> <input name="description" type="hidden" value=" XXXX " /> <input name="return url" type="hidden" value=" XXXX " /> <input name="name" type="hidden" value=" XXXX " /> <input name="address" type="hidden" value=" XXXX " /> <input name="city" type="hidden" value=" XXXX " /> <input name="state" type="hidden" value=" XXXX " /> <input name="country" type="hidden" value=" XXXX " /> <input name="postal\_code" type="hidden" value=" XXXX " /> <input name="phone" type="hidden" value=" XXXX " /> <input name="email" type="hidden" value=" XXXX " />

<input name="ship\_name" type="hidden" value=" XXXX " /> <input name="ship\_address" type="hidden" value=" XXXX " /> <input name="ship\_country" type="hidden" value=" XXXX " /> <input name="ship\_state" type="hidden" value=" XXXX " /> <input name="ship\_city" type="hidden" value=" XXXX " /> <input name="ship\_postal\_code" type="hidden" value="" /> <input name="ship\_phone" type="hidden" value=" XXXX " /> <input name="bank code" type="hidden" value=" XXXX " /> <input name="name on card" type="hidden" value=" XXXX" /> <input name="card number" type="hidden" value="</pre> XXXX"/> <input name="card expiry" type="hidden" value=" XXXX" /> <input name="card cvv" type="hidden" value=" XXXX"/> <input name="emi" type="hidden" value=" XXXX" /> <input name="page\_id" type="hidden" value=" XXXX"/> <input name="secure hash" type="hidden" value=" XXXX" /> <input value="Submit" type="submit" />

#### iv. Sample HTML form For Standard Mode

The link between Merchant website and EBS Payment page has to be maintained on the last

page of the shopping basket on Merchant website.

Below are the parameters to be posted to EBS.

<form method="post" action="https://secure.ebs.in/pg/ma/payment/request" name="frmTransaction" id="frmTransaction" > <input name="channel" type="hidden" value="0" />

<input name="account\_id" type="hidden" value=" XXXX " /> <input name="reference\_no" type="hidden" value=" XXXX " /> <input name="amount" type="hidden" value=" XXXX " /> <input name="mode" type="hidden" value=" XXXX " /> <input name="currency" type="hidden" value=" INR" /> <input name="description" type="hidden" value=" XXXX " /> <input name="return\_url" type="hidden" value=" XXXX " /> <input name="name" type="hidden" value=" XXXX " /> <input name="address" type="hidden" value=" XXXX " /> <input name="city" type="hidden" value=" XXXX " /> <input name="state" type="hidden" value=" XXXX " /> <input name="country" type="hidden" value=" XXXX " /> <input name="postal\_code" type="hidden" value=" XXXX " /> <input name="postal\_code" type="hidden" value=" XXXX " /> <input name="postal\_code" type="hidden" value=" XXXX " /> <input name="email" type="hidden" value=" XXXX " />

```
<input name="ship_name" type="hidden" value=" XXXX " /> <input
name="ship_address" type="hidden" value=" XXXX " /> <input
name="ship_country" type="hidden" value=" XXXX " />
<input name="ship_city" type="hidden" value=" XXXX " />
<input name="ship_postal_code" type="hidden" value=" XXXX " />
<input name="ship_phone" type="hidden" value=" XXXX " />
<input name="ship_phone" type="hidden" value=" XXXX " />
<input name="bank_code" type="hidden" value=" XXXX " />
<input name="bank_code" type="hidden" value=" XXXX " />
<input name="bank_code" type="hidden" value=" XXXX " />
<input name="emi" type="hidden" value=" XXXX " />
<input name="emi" type="hidden" value=" XXXX " />
<input name="emi" type="hidden" value=" XXXX " />
<input name="secure_hash" type="hidden" value=" XXXX"/>
<input name="submit" type="hidden" value=" XXXX"/>
```

## v. BIN Restrictions

Using this Integration Model, Merchant can also provide BIN restriction (used primarily for Bank promotional offers to their Customers).

Prerequisite will be, Merchant should share the Bank Name and BIN Range corresponding to the Bank. On providing these details, EBS will provide a bank code which should be posted under the parameter name bank\_code.

Posting this value will allow the Customer to transact only through the specified Bank Credit or Debit card.

#### vi. Payment Page Customization

The main feature of this version is, the merchant can change the Look & Feel of the payment page by doing some settings on the backend and then sending the *page\_id* parameter with the payment parameters. For configuration of the page settings, please refer below.

The *page\_id* parameter will take care of the layout of the payment page, the hashing algorithm (MD5, SHA1, and SHA512), the http method (GET or POST) in which response is to be sent etc.

If you are not sending any *page\_id* value, the default will be taken as the configuration for your payment page.

#### 1.1 Getting Started

To start using custom payment pages, login to merchant account:

- Click on the Payment Pages link under the Account tab. This will lead to the Pages screen.
- On this screen, you can Add, Edit, Preview, and Remove pages, as well as make any page style as default.

## 1.2 Adding a Page

You may add up to 5 pages from your account. To add a page:

In the payment pages screen, select **Create New Page** button

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<u>.</u>				
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num	The dealer from Page Microsoft Control Control			
Analytia		Pages		
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## Figure 1: Adding a Page

On clicking the **Create New Page** button, the following page will be displayed:

oduote	Customer Support Humber		
	(priter your austamer support number.) Mobile Layout	000 Yes	
	(De you want to show mobile layout for mobile devices?) Steps Wizard	an Show - Hite	
	(De you want to display the process flow?) assure that chierithm	MDB -	
	(The hash algorithm to generate Secure Hash valid for payment request and response )		
	(Do you want customer information of the payment to be sant in payment response?)		
	(The HTTP method to send the response to your return LHL.)		
	(Oo you want to show redirection page to your onetpower while coonnecting EBE2) Redirection Page	as brow to me	
	Success Page (Do you want to show auccess bage to your customer after payment get auccessded?)	😨 Show 🐑 Hide	
	Pailure Page (Do you want to show failure page to your customer after payment get failed?)	a Bhaw 🕞 Hale	
	Retry Bates (De you want to show retry option in feilure page?)	🝙 tihow 👝 Hide	
	Beoure Beam (Do you want to display secure asais in boltom of the payment page?)	e show C Hde	
	Google Analytics Account (Enter your google analytics, account number to track payment pages.)		
		Seve. General	
	Lest Login 1 14 Feb, 2014 11/20/04 AM Our Execution 1 Ime = 7	rant IP : 14, 141, 19, 250 togged at : 11, 00.25 42 m3 71 guartaa	
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Smart Router	Preferences		
Payment Pages	General Payment Options Page Look & Feel Store Card Labeling		
Customer Payments	Your Loop	Proven No file calecter	
earch Payments	This have will be dealered as Piecessian and Marines inter white basis (2016).	donde	
leports	(This logo will be displayed on Payment pages. Maximum size of the logo is 128 Kb.)		
	Page Title	Secure Payment Page	
nvaice	(The title of the payment pages.)		
art Setup			
lanage Users	What to be shown on payment pages?	Merchant Name o Domain	
	(Please select either domain name or merchant name needs to be shown in payment pages.)		
nargeback case	Customer Support Number		
roducts	(Enter your customer support number.)		=
	Makin Laward		
	Mobile Layout	Yes      No	
	(Do you want to show mobile layout for mobile devices?)		
	Steps Wizard	Show O Hide	
	(Do you want to display the process flow?)		
		NDC	
	Secure nash Augorithm	■ CUIII	
	(The hash algorithm to generate Secure Hash valod for payment request and response.)		
	Customer Information in Response?	Yes ONO	
	(Do you want customer information of the payment to be sent in payment response?)		
	HTTP Method for Response Data	Ø GET O POST	
	(The HTTP method to send the response to your return URL.)		
	Redirection Page	Show O Hide	
	(Do you want to show redirection page to your customer while connecting EBS?)		
	Success Page	like Show 🕞 Hide	
	(Do you want to show success page to your customer after payment get succeeded?)		
	Failure Dage	Show	
	railare rage	Contra Onice	

Here you can customize the page according to your preference

### Figure 2: Changing page preferences

## **1.3 Payment Page Preferences**

## 1.3.1 Payment Page Preferences - GENERAL

#### Page Name

The Page name will be used to refer to the page style within your EBS account payment pages link. This name will be displayed as the list pf payment pages on clicking the Payment Pages tab.

Enter a name up to 25 characters in length. The name can contain letters, numbers, and the underscore mark, but no other symbols or spaces.

		Pages Add	
Mileritary			
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WATCHINGT, PROLAMENT	Preterious		
Product restored Production	General Payment Options Page Look & Peel Store Card Labeling		
Chistomer Payments		the second	
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Photos	Read The	Contract Contract Contract	
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Relationship (Charles and	All the second effect of the second of the second s	The second secon	
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Producte	IEnter your customer support number I		1
	Mobile Lavout	an 200 m 10	
	(Do you want to show mobile layout for mobile, devices 7)		
	Bloos Witard	an brow control	
	the year want to display the process how 72		
	Secure Hash Algorithm	MDS +	
	crite hash algorithm to generate becure thesh value for payment request and response.)		
	Customer Information in Response?	and there are the	
	too you want customer information of the payment to be sont in payment response?)		
	MTTP Mathod for Response Data	COLT IN POST	
	CTTM FFTFF method to mend the companies to your retorn OHL.3		
	Redirection Page	as show as hide	
	title yea want to show redirection page to your customer while connecting 201573		
	Burress Page	age filteres and History	
	(On you want to allow automas page to your sublimar after payment get autometer?)		
	Fallers Page	and Relative and Finder	

#### Figure 3: Page Name

#### Logo

You can upload your website logo here. The image must be in a valid graphics format such as .gif,

.jpg, .png and .jpeg. This logo will be displayed on your payment page. Maximum size of the logo image you can upload is 128 Kb.

#### Page Title

The title which you provide here will be used as the title for the payment page.

#### What to be shown on payment pages?

You can choose if the merchant name is to be displayed on the payment page or the domain name is to be displayed on the payment page by selecting the desired radio button.

#### **Customer Support Number**

Enter the support number for the customer. This number will be shown on the payment page near to the Domain or Merchant Name.

#### Mobile Layout

This selection decides whether you want this layout to be shown to your customers when they access the payment page from mobile devices. If you select No, the desktop version of layout alone will be shown to the customers even while making payment from mobile devices as well.

#### Steps Wizard

If you want the process flow to be displayed on the payment page, you can select yes.

#### Secure Hash Algorithm

The secure hash algorithm is used to generate secure hash for request and response. You have to select any one of the method given. The parameters will be hashed according to the algorithm selected and sent together with the parameters.

#### Customer Information in Response

If **Yes** is selected, the customer information will also be sent along with the response.

#### HTTP Method for Response Data

On Selecting GET method, the response parameters will be sent back along with the return URL and it will be visible for all. But if POST method is selected, it won't be visible to others.

#### **Redirection Page**

The redirection page while connecting EBS to bank would be visible to the customer if **Show** option is selected.

#### Success Page

If the payment is successful, the customer will be redirected to Success Page. This option decides whether you want this to happen or bypass the success page and directly go to Return URL.

#### Failure Page

Normally Failure Page will be shown once the transaction gets failed. It can be avoided by selecting Hide here.

#### Retry Option

Customer is given with the provision of 3 retries per order if the transaction gets failed. Select SHOW to make Retry link visible in the failure page.

#### Secure Seals

Merchant can choose to show or hide logos of the secure seals such as Verizon using this option.

#### **Google Analytics Account**

Enter your google analytics account number here to track payment pages.

#### **1.3.2 Payment Page Preferences - PAYMENT OPTIONS PAGE**

#### Other Currency

The approximate value of payment amount in this currency will be displayed additionally in the payment options page. You can select any of the currency from the dropdown.

#### **Product Information**

For displaying the Product Information in the payment page, select **Show**.

#### Collect Customer Information

Sometimes the customer information is required to be collected from the payment page. In that case, you can select **Yes**.

#### **Customer Information**

If it is not required to collect customer information from the payment page, but customer information needs to be displayed on the payment page, then select **Show**.

#### Payment modes tab Style

With this option, select payment modes tab style, to be either horizontal or vertical.

#### Go Back Button

If this button is to be shown on the payment page, select **Show**. On clicking this button, the customer will be redirected to your website.

#### Cancel Payment Button

If the customer clicks this button, payment will get cancelled. Select *Show* or Hide. Select Payment Options which has to be hidden on the payment options page

Here, two sections are shown. The Available Payment Options block contains all the payment options which are activated for the merchant. If you want to hide some of the payment options from the payment page, you can select the required payment option and click on the Hide button. It will be populated to the right block and will not be displayed on the payment page. Later, if you want that payment option as well to be displayed on the page, you can select that payment option and click on the Show button. It will be populated back to the Available Payment Options block.

## 1.3.3 Payment Page Preferences - LOOK & FEEL

#### **Background Image**

The background image for your payment page can be set as per your requirement. Maximum size of the image you can upload is 128 Kb. This image will be taken as background image for all the payment related pages like main payment page, redirection, success, failure etc.

#### Repeat Background Image

If you want the background image to be repeated, you can either select vertical for vertical repeat or horizontal for horizontal repeat or on Both Dimensions or NO REPEAT.

#### **Background Color**

Enter the background color for the payment page in HTML hex code using the color picker given. If Background image is not uploaded, the Background Color will be reflected on the payment page.

#### Text Style

The text style to be used for your payment page can be selected here. You can select any one value from the dropdown.

#### Text Color

This is the text color to be used for your payment page. Enter the color for the payment page in HTML hex code using the color picker given.

#### Hyperlink Color

This is the color to be used for hyperlink in your payment page. Enter the color in HTML hex code using the color picker given.

#### Content Background Color

This is the color to be used for the content in your payment page. Enter the color in HTML hex code using the color picker given.

#### Box Background Color

This is the background color to be used for the blocks in your payment page. Enter the color in HTML hex code using the color picker given.

#### Tab Background Color

This is the background color to be used for the tabs in your payment page. Enter the color in HTML hex code using the color picker given.

#### Tab Color

This color is to be used for the tab in your payment page. Enter the color in HTML hex code using the color picker given.

#### Tab Text Color

This color is to be used for the text inside the payment tabs. Enter the color in HTML hex code using the color picker given.

#### Active Tab Color

This color is to be used for the active tab in your payment page. Enter the color in HTML hex code using the color picker given.

#### Active Tab Text Color

The color is to be used for the text inside the active tab in your payment page. Enter the color in HTML hex code using the color picker given.

#### Button Background Color

The background color used for buttons inside the payment page is to be selected using this tab. Enter the color in HTML hex code using the color picker given.

#### **Button Text Color**

The color to be used for the text inside the buttons in your payment page is selected by this option. Enter the color in HTML hex code using the color picker given.

#### **Button Border Color**

This is the color to be used for the button borders in your payment page. Enter the color in HTML hex code using the color picker given.

#### Border Color

The color is used for all the borders in your payment page. Enter the color in the HTML hex code using the color picker given.

#### Save/Cancel

After entering all your preferences, click Save to save it.

Now, you will be redirected to the list page where you can preview, edit and delete the pages created.

#### 1.4 Previewing a Page

EBS > Account > Payment Pages	k
Create New Page	

Pages

Here, you can create your personalized payment pages. You can create upto 5 pages and you can make any of them as default. You can also send a page ID along with other payment parameters to display the particular page to your customer.

Page ID	Nar	Last Modified	Default			Action
12	My First Page	2013-02-20 18:01:16	9	1	8	Q
13	My Second Page	2013-02-20 18:01:48	9		8	Q
14	My Third Page	2013-02-20 18:02:29	9		8	Q

## Figure 4: List of Created Payment Pages

To preview a page:

- Select Payment Pages
- Click the preview button at the right side of the page list.

tte New Pa	age					
		Pag	les			
	· · · · · · · · · · · · · · · · · · ·	for a second sec	the second discourse and discourse before a second s			
u can crea	ate your personalized payment pages. \ lar page to your customer.	fou can create upto 5 pages and you can ma	ke any of them as default. You can also send a page ID	along with other pay	yment para	meters
u can crea he particu	ate your personalized payment pages. \ lar page to your customer.	fou can create upto 5 pages and you can ma	ke any of them as default. You can also send a page ID	along with other pay	yment para	meters
ou can crea the particul Page ID	ate your personalized payment pages. Y lar page to your customer.	You can create upto 5 pages and you can ma	ke any of them as default. You can also send a page ID Last Modified	along with other pay Default	yment para	meter:
ou can crea he particul Page ID 12	ite your personalized payment pages. Y lar page to your customer. My First Page	You can create upto 5 pages and you can ma	ke any of them as default. You can also send a page ID Last Modified 2013-02-20 18:01:16	along with other pay Default	yment para	A XX
ou can crea the particul Page ID 12 13	te your personalized payment pages. Y lar page to your customer. My First Page My Second Page	You can create upto 5 pages and you can ma	ke any of them as default. You can also send a page ID Last Modified 2013-02-20 18:01:16 2013-02-20 18:01:48	Default	yment para	A XX

#### Figure 5: Preview option

#### 1.5 Setting a page as DEFAULT

If a page is set as default and if the page ID parameter is not sent with the payment parameters, this page will be taken as default. To make a page as default:

- 4. Begin at the Custom Payment Page Styles page (see "Getting Started," above)
- 5. Click the default button (red) under the heading default which you wish to make as default page.
- 6. The color of the button will be changed to green once it is made default.

S > Accou	int > Payment Pages				<b>k</b> -	
ate New P	age					
		Pages				
ou can cre	ate your personalized payment pages. You can create	e upto 5 pages and you can make a	ny of them as default. You can also send a page ID	along with other pay	yment para	meters
ou can crea the particu	ate your personalized payment pages. You can create lar page to your customer.	e upto 5 pages and you can make a	ny of them as default. You can also send a page ID	along with other pay	yment para	meters
ou can crea the particu Page ID	ate your personalized payment pages. You can create lar page to your customer. N	e upto 5 pages and you can make a	ny of them as default. You can also send a page ID Last Modified	along with other pay	yment para	meters
ou can crea the particu Page ID 12	ate your personalized payment pages. You can create lar page to your customer. N My First Page	e upto 5 pages and you can make a	ny of them as default. You can also send a page ID Last Modified 2013-02-20 18:01:16	along with other pay Default	yment para	meters A
ou can crea the particu Page ID 12 13	ite your personalized payment pages. You can create lar page to your customer. Ny First Page My Second Page	e upto 5 pages and you can make a	iny of them as default. You can also send a page ID Last Modified 2013-02-20 18:01:16 2013-02-20 18:01:48	along with other pay Dofault	yment para	A A

Figure 6: Setting as default option

#### 6.6 Removing a Page

When you remove a page and if the page ID is given as a parameter, the payment pages to which the style was applied will no longer be customized with those specifications. Instead, your Default page style will be applied to those pages.

To Remove a Page:

- Begin at the Custom Payment Page Styles page (see "Getting Started," above)
- Click the Delete Button on the right side of the list which you wish to delete.
- Confirm your choice.

- ACCOU	in > Fayment Fages				A.		
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Figure 7: Deleting a payment page style

ΔΜΡΙ Γ ΡΔΥΜ	IFNT PAGF		
E-Billing Solutions Pvt Ltd (IN)	https://secure.ebs.in/pg/ma/payment/pa	ge/action/payment/iid/1738b19cf9899655ee30deldfe7bf65ah ♥ C	Gift and give Put I td
	Shopsite		Gift and give PVt Ltd
	1. Make Payment »	2. Bank Authorization »	3. Finish Your Order
	1. Make Payment »	2. Bank Authorization »	3. Finish Your Order Total Amount : INR 1.00 [Approximately : 0.02 CAD <u>Check here</u> ]
	1. Make Payment >>       Order No : 223       Credit Card	2. Bank Authorization »	3. Finish Your Order Total Amount : INR 1.00 [Approximately : 0.02 CAD <u>Check here</u> ]
	1. Make Payment >         Order No : 223         Credit Card         Debit Card	2. Bank Authorization »	3. Finish Your Order Total Amount : INR 1.00 [Approximately : 0.02 CAD <u>Check here</u> ]
	1. Make Payment >>         Order No : 223         Credit Card         Debit Card         Net Banking	2. Bank Authorization »	3. Finish Your Order Total Amount : INR <b>1.00</b> [Approximately : 0.02 CAD <u>Check here</u> ]
	1. Make Payment >>         Order No : 223         Credit Card         Debit Card         Net Banking         Debit Card (ATM PIN)	2. Bank Authorization » VISA © © Name On Card : Card Number : Card Expiry : Month ¥ Year ¥	3. Finish Your Order Total Amount : INR 1.00 [Approximately : 0.02 CAD Check here]
	1. Make Payment >>         Order No : 223         Credit Card         Debit Card         Net Banking         Debit Card (ATM PIN)	2. Bank Authorization >>  2. Bank Authorization >>  2. Bank Authorization >>  2. Card Number  Card Expiry  Card Expiry  Card CVV  Card CVV Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CVV  Card CV	3. Finish Your Order Total Amount : INR 1.00 [Approximately : 0.02 CAD <u>Check here</u> ]
	1. Make Payment >>         Order No : 223         Credit Card         Debit Card         Net Banking         Debit Card (ATM PIN)	2. Bank Authorization » 2. Bank Authorization » 2. Bank Authorization » Card Super State Stat	3. Finish Your Order Total Amount : INR <b>1.00</b> [Approximately : 0.02 CAD Check here]

#### vii. Payment Response

In this Response page, you have to edit the secret key with your secret key. To get the secret Key,

Login to the EBS Merchant Account.

Go to "Settings". In the Account settings you can view the secret key.

Note: To reset the secret key, send a request Email to support@ebs.in

According to the http method set on the merchant backend page customization section, the response will be sent back to the return URL. If GET method is selected, the response is given as query string appended to the return URL. One secure\_hash parameter also will be sent along with the other parameters. The secure hash will be calculated according to the hash algorithm mentioned in the backend configuration of the payment page.

#### viii. Payment Response Parameters

Response in case all the validations are passed.

S.No	Parameter	Description
		Whether the payment is successful or not 0
1	ResponseCode	=>Successful
		Appropriate message explaining about successful or un
2	ResponseMessage	successful payment
3	DateCreated	payment happened date
		For that particular payment a id will be created for our
4	PaymentID	reference
5	MerchantRefNo	Merchants reference number
6	Amount	Payment Amount
7	Mode	LIVE
Convright E Bi	illing Solutions Dut Ltd	

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8	BillingName	Customer billing Name
9	BillingAddress	Customer billing address.
10	BillingCity	Customer billing city.
11	BillingState	Customer billing state.
12	BillingPostalCode	Customer billing postal code.
13	BillingCountry	Customer billing country.
14	BillingPhone	Customer billing phone.
15	BillingEmail	Customer billing email.
16	DeliveryName	Customer delivery Name
17	DeliveryAddress	Customer delivery address.
18	DeliveryCity	Customer delivery city.
19	DeliveryState	Customer delivery state
20	DeliveryPostalCode	Customer delivery postal code.
21	DeliveryCountry	Customer delivery country.
22	DeliveryPhone	Customer delivery phone.
23	IsFlagged	YES or NO
24	TransactionID	Authorized Transaction ID of the generated payment ID. Each Payment ID will have different transaction id for each actions. For ex: Capture, Cancel, Refund, etc
25	SecureHash	The hashed value of the response parameters.
26	AccountID	Your Account ID

## Response in case all the validations are failed

S.No	Parameter	Description
1	SecureHash	The hashed value of the response parameters.

2	Error	Error Message
3	ResponseCode	Response Code of the error

# Recommended validation in the response file to avoid duplication of records in your backend

- 1) Pass your orderid in the reference\_no parameter and in response file, check whether MerchantRefNo and your orderid matches.
- 2) Check if the amount of the order and the "amount" parameter in the response is equal.

If both the conditions results as true, insert order in your backend, which nullifies the

duplications.

#### **Response Message:**

Transaction Successful Transaction Failed Invalid parameters: Invalid Account ID / VPC is not enabled for the account Invalid Secure Hash Amount cannot be less than 1 Invalid Payment Option Invalid payment request Invalid mode selected Selected payment method is NOT available now Invalid Response Bank Declined Transaction 3D Secure Authentication Failed Denied By Risk Insufficient funds

#### **APPENDIX A – SECURE HASH VALIDATION**

Secure hash is a technology to check for the authenticity of the parameters posted to EBS. The secure hash value is posted along with other post parameters. The received parameters are hashed at EBS and compared against the Secure hash value received from Merchant.

In a Similar way, the merchant can hash the received values and compare it with secure hash value received from EBS while taking the payment response.

The Hash Algorithm depends on the *page\_id* parameter which you sent while the payment request is sent to EBS.

In case of non-conformity, the payment is failed and further processing is stopped.

#### Procedure to implement the Secure Hash:

#### Step 1 - Implement the code for Secure hash validation

#### Sample Code using MD5 Hashing Algorithm in PHP

\$secret\_key = ' '; //Provide your EBS Account's Secret Key

\$hashData = \$secret\_key; // Intialise with Secret Key ksort (\$\_POST); // Sort the post
parameters in alphabetical order of parameter names.

//Append the posted values to \$hashData

foreach(\$\_POST as \$key => \$value) {

//create the hashing input leaving out any fields that has no value and by concatenating the values using a `|' symbol.

if (strlen(\$value) > 0) { \$hashData .= '|'.\$value;

}

}

```
}
// Create the secure hash and append it to the Post data
if (strlen($hashData) > 0) {
    $hashvalue = strtoupper(md5($hashData));
```

\$SecureHash = \$hashvalue;

#### Step 2 – Posting the Hash Value

Merchant need to generate Secure Hash and pass this value along with other payment request Parameters. Parameter Name for Secure Hash is "secure\_hash"

<input name="secure\_hash" type="hidden" value="abcdefghijklmnopqrstuvwxyz012345" />

#### **APPENDIX B – SETTLEMENT CYCLE**

This is with reference to the RBI Notification RBI/2009-10/231DPSS.CO.PD.No. 1102/02.14.08/2009-10 dated November24, 2009 captioned "Directions for opening and operation of accounts and settlement of payments for electronic payment transactions involving intermediaries".

As per the aforementioned notification, EBS has implemented a T+2 Settlement Cycle. Below mentioned are the details concerning T+2 Settlement process:

Transaction Day – Day on which Merchant completes the Order from his Customer by capturing it in the EBS Backend.

Settlement Day- Day on which EBS Settles the Transaction Amount to Merchant for the Transaction done on Transaction Day

Transaction Day	Settlement Day
Monday(this week)	Wednesday(this week)
Tuesday(this week)	Thursday(this week)
Wednesday(this week)	Friday(this week)
Thursday(this week)	Saturday(this week)
Friday (this week)	Monday(next week)
Saturday, Sunday(this week)	Tuesday(next week)

**Note** - If any Bank Holidays or Unexpected Holidays happen to be on the Settlement Day, the Settlement is postponed to the next Working Day.

**For Example:** If Tuesday happens to be Bank Holiday, The Settlement is postponed to Wednesday. So the transactions done on Saturday, Sunday (this week) are settled on Wednesday (next week)

## APPENDIX C – ISO3 COUNTRY NAME

## ISO 3 Country Name ABW Aruba AFG Afghanistan AGO Angola AIA Anguilla ALA Aland Islands ALB Albania AND Andorra **ANT Netherlands Antilles ARE United Arab Emirates** ARM Armenia ASM American Samoa ATA Antarctica **ATF** French Southern Territories ATG Antigua and Barbuda AUS Australia AUT Austria AZE Azerbaijan **BDI Burundi BEL Belgium** BGD Bangladesh BGR Bulgaria BHR Bahrain **BHS Bahamas BRB Barbados** BIH Bosnia and Herzegovina **BLR Belarus BLZ** Belize **BEL Belgium BEN Benin BMU** Bermuda **BTN Bhutan BOL Bolivia BWA Botswana**

#### ISO 3 Country Name

- **BVT** Bouvet Island
- BRA Brazil
- BRN Brunei Darussalam
- BFA Burkina Faso
- CAF Central African Republic
- CAN Canada
- CCK Cocos (Keeling) Islands
- CHE Switzerland
- CHL Chile
- CHN China
- CIV Cite d'Ivoire
- CMR Cameroon
- CYM Cayman Islands
- CYP Cyprus
- CZE Czech Republic
- COD Democratic Republic of the Congo
- COK Cook Islands
- COL Colombia
- COM Comoros
- CPV Cape Verde
- CRI Costa Rica
- CUB Cuba
- CXR Christmas Island
- DEU Germany
- DJI Djibouti
- DMA Dominica
- DNK Denmark
- DOM Dominican Republic
- DZA Algeria
- ECU Ecuador
- ESH Western Sahara
- ESP Spain
- EST Estonia

	Country Name	ISO 3	Country Name
	Ethiopia	KIR	Kiribati
	Einland	KNA	Saint Kitts and Nevis
		KOR	Korea, Republic of Korea
רוע	Fiji Falkland Islands (Malvinas)	KWT	Kuwait
		LAO	Lao People`s Democratic Republic
	Egypt	LBN	Lebanon
	Entrea	LBR	Liberia
	France Faroa Islands	LBY	Libyan Arab Jamahiriya
	Falloe Islalius	LCA	Saint Lucia
	Cabon	LIE	Liechtenstein LKA
GAD	United Kingdom	LKA	Sri Lanka
GEO		LSO	Lesotho
GLUE	Georgia	LTU	Lithuania
GUM	Guam	LUX	Luxembourg
	Guan	LVA	Latvia
		MAC	Macao
	Indonosia	MAF	Saint Martin (French part) MAR
	Indonesia	MAR	Morocco
		MCO	Monaco
	Ritich Indian Ocean Territory	MDA	Moldova
	Iroland	MDG	Madagascar
	Iran Islamic Dopublic of Iran	MDV	Maldives
		MNP	Northern Mariana Islands MOZ
	lialand	MOZ	Mozambique
	Iceland	MRT	Mauritania
		MSR	Montserrat
	Italy	MTQ	Martinique
JAIVI	Janaica	MUS	Mauritius
	Jersey	MWI	Malawi
	Jondan	MYS	Malaysia
	Japan	MYT	Mayotte
	Campoula Kazakhetan	NAM	Namibia
	Kazakiistaii	NCL	New Caledonia
KEN	Kellyd Kwrawastan	NER	Niger
KGZ	NYISYZSLAII		

ISO 3 Country Name NFK Norfolk Island NGA Nigeria NIC Nicaragua NIU Niue **NLD** Netherlands NOR R Norway NPL Nepal NRU Nauru NZL New Zealand **OMN** Oman PAK Pakistan **PAN** Panama PCN Pitcairn PER Peru PHL Philippines PLW Palau PNG Papua New Guinea POL Poland **PRI** Puerto Rico PRK Korea, Democratic People's Republic PRT Portugal **PRY Paraguay** PSE Palestinian Territory, Occupied **PYF** French Polynesia QAT Qatar **REU** Run ion **ROU** Romania **RUS** Russian Federation **RWA Rwanda** SAU Saudi Arabia SDN Sudan SEN Senegal SGP Singapore SGS South Georgia and the South Sandwich Islands

## ISO 3 Country Name SHN Saint Helena SJM Svalbard and Jan Mayan SLB Solomon Islands SLE Sierra Leone SLV El Salvador SMR San Marino SOM Somalia SPM Saint Pierre and Miquelon SRB Serbia STP Sao Tome and Principe SUR Suriname SVK Slovakia SVN Slovenia SWE Sweden SWZ Swaziland SYC Seychelles SYR Syrian Arab Republic TCA Turks and Caicos Islands TCD Chad TGO Togo THA Thailand TJK Tajikistan TKL TKL Tokelau TKM Turkmenistan **TLS** Timor TON Tonga TTO Trinidad and Tobago **TUN** Tunisia **TUR Turkey TUV** Tuvalu TWN Taiwan, Province of China TZA Tanzania, United Republic of UGA Uganda

UKR Ukraine

#### ISO 3 Country Name

UMI United States Minor Outlying Islands

**URY Uruguay** 

USA United States

UZB Uzbekistan

VAT Holy See (Vatican City State)

VCT Saint Vincent and the Grenadines

VEN Venezuela

VGB Virgin Islands, British

VIR Virgin Islands, U.S.

VNM Viet Nam

VUT Vanuatu

WLF Wallis and Futuna

WSM Samoa

YEM Yemen

ZAF South Africa

ZMB Zambia

ZWE Zimbabwe

## **APPENDIX D – PCI DSS COMPLIANCE**

#### **Compliance Requirements**

Control Objectives	PCI DSS Requirements
Build and Maintain a Secure Network	1.Install and maintain a firewall configuration to protect cardholder data
	2. Do not use vendor-supplied defaults for system passwords and other security parameters

	3. Protect stored cardholder data	
Protect Cardholder Data	4. Encrypt transmission of cardholder data across open, public networks	
Maintain a Vulnerability Management	5. Use and regularly update anti-virus software on all systems commonly affected by malware	
Program	6. Develop and maintain secure systems and applications	
	7. Restrict access to cardholder data by business need to-know	
Implement Strong Access Control Measures	8. Assign a unique ID to each person with computer access	
	9. Restrict physical access to cardholder data	
	10. Track and monitor all access to network resources and cardholder data	
Regularly Monitor and Test Networks	11. Regularly test security systems and processes	
Maintain an Information Security Policy	12. Maintain a policy that addresses information security	

#### PCI Self-Assessment Questionnaire (SAQ)

The PCI Data Security Standard Self-Assessment Questionnaire is a validation tool intended to assist merchants and service providers in self-evaluating their compliance with the Payment Card Industry Data Security Standard (PCI DSS). All merchants and their service providers are required to comply with the PCI Data Security Standard in its entirety.

SAQ	Description
A	Card-not-present (e-commerce or mail/telephone-order) merchants, all cardholder data functions outsourced. This would never apply to face-to-face merchants.
В	Imprint-only merchants with no electronic cardholder data storage, or standalone, dial-out terminal merchants with no electronic cardholder data storage.
C-VT	Merchants using only web-based virtual terminals, no electronic cardholder data storage.
С	Merchants with payment application systems connected to the Internet, no electronic cardholder data storage.
D	All other merchants not included in descriptions for SAQ types A through C above, and all service providers defined by a payment brand as eligible to complete an SAQ.

#### Merchant PCI DSS Compliance Criteria and PCI levels

#### Level 1 Criteria

Merchants with over 6 million transactions a year, or merchants whose data has previously been compromised *Level 1 Validation Requirements* 

Annual Onsite Security Audit (reviewed by a QSA or Internal Audit if signed by officer of merchant company and pre-approved by acquirer) and quarterly network security scan

# Level 2 Criteria

Merchants with 1,000,000 to 6 million transactions a year Level 2 Validation Requirements Annual Self-Assessment Questionnaire Quarterly Scan by an Approved Scanning Vendor (ASV)

#### Level 3 Criteria

Merchants with 20,000 to 1,000,000 transactions a year Level 3 Validation Requirements Quarterly Scan by an Approved Scanning Vendor (ASV) Annual Self-Assessment Questionnaire

## Level 4 Criteria Merchants with less than 20,000 transactions Level 4 Validation Requirements Annual Self-Assessment Questionnaire Quarterly Scan by an Approved Scanning Vendor

#### Achieving Compliance with PCI DSS

The PCI DSS compliance procedure can take anything from a day to many weeks, depending on what is uncovered by the vulnerability assessment scan and the self-assessment questionnaire. Organizations that currently have a good level of information security are likely to be compliant a lot more quickly than those that don't.

QSAs carry out inspections of PCI DSS implementations and determine a recommendation of compliance to the various payment brands. Each individual payment brand will separately determine whether to accept the recommendation of compliance and whether a detailed review of the report of compliance and compensating controls is warranted.

The starting point for all organizations that need to comply is to download the <u>Payment Card</u> <u>Industry Self-Assessment Questionnaire</u> and to contact a <u>PCI Approved Scanning</u> <u>Vendor</u> (ASV).



## E-Billing Solutions Pvt. Ltd.,

If Any, Please send suggestions or corrections to:

Email:support@ebs.in