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NestPay®

Merchant Template Management

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1.NESTPAY MERCHANT TEMPLATE MANAGEMENT

A payment template file consists of HTML tags and template variables for displaying dynamic content for the order and merchant. Default acquirer template files are bundled within NestPay. This means even there is no file under external template folder, default templates will be shown to the card holder.

Default template files can be overridden by using an external template folder as source directory. NestPay supports customization of templates by acquirer and merchant level. These templates may contain special graphical design, merchant logos, and merchant specific payment options like instalments, billing address information etc.

The external template folder location is defined with the “*external.template*” property in the fim.properties file. An example may be:

```
external.template=/data/templates/
```

1.1 Template Files Management

Default acquirer templates can be overridden by copying them to
[EXTERNAL_TEMPLATE_FOLDER] /[ACQUIRERID]/ where

EXTERNAL_TEMPLATE_FOLDER is the “external.template” property value defined above and
ACQUIRERID is unique NestPay id of the acquirer.

When a new set of templates for a specific merchant is created, these files must be copied to a folder with the following rules:

[EXTERNAL_TEMPLATE_FOLDER]/[ACQUIRERID]/[DIMUID]/ where

EXTERNAL_TEMPLATE_FOLDER is the “external.template” property value defined above,
ACQUIRERID is unique id of the acquirer and DIMUID is unique NesPay id of the merchant

An example is as follows for a merchant with dimUid=10000001 and acquirerid=10
/data/templates/10/10000001/ where external template folder is defined as /data/templates.

Template files are named by following format [templateName]_[lang].htm, where *lang* is the ISO 639-1 Code of language. For example it is "en" for English. The language is determined by the merchant when it submits the HTTP Post parameter "*language*" to the gateway.

File Name	Explanation
gateadrlogo.htm	Payment page which has billing/shipping address fields, consists bank and card logos. If merchant does not send <i>BillToStreet1</i> and <i>BillToName</i> parameters, this page is shown
gatelogo.htm	Payment page without address fields, consists bank and card logos
gateresultlogofail.htm	Error information page, consists bank and card logos
gateresultlogosuccess.htm	Payment success result page, consists of bank and card logos, redirects to merchant after a while
gateresultnologo.htm	Result page which automatically redirects to success page, without displaying any information
gatestateerr.htm	Error page which displays state errors and wrong redirection errors
gatestatetimeout.htm	Error page which displays timeout error
gateerr.htm	Generic error page

1.2 Template Images and CSS

Default template images are bundled with NestPay. The relative path for images folder of an acquirer is: `est3dimages/[ACQUIRERNAME]/`

Default css files are bundled with NestPay. The relative path for css file directory of an acquirer is: `styles/[ACQUIRERNAME]/`

1.2.1 Adding Static Content on Web Sphere

To add new static content like images or css files on Web Sphere, IBM HTTP Server (IHS), and the IBM web server Plug-in needs to be configured to serve static files (JPG, GIF, etc.) from the IHS web server. `fileServingEnabled="true"` in the `ibm-web-ext.xmi` file must be used.

1) Create a subdirectory called "static" under the IHS DocumentRoot directory. And put the static files that you want IHS to serve into that directory. For example in the IHS document root directory (HTTPServer/htdocs/) create a subdirectory called "static". Something like this:
/usr/IBM/HTTPServer/htdocs/static/

2) On the templates, reference those files using relative references like "static/picture.jpg", or "static/mystyles.css".

Those relative references will be interpreted as URLs like this:

/fim/static/picture.jpg

/fim/static/mystyles.css

3) In the IHS configuration, use RewriteCond and RewriteRule to watch for these references, and redirect to get them from IHS. For example:

```
<ifModule mod_rewrite.c>
RewriteEngine on
RewriteCond %{REQUEST_URI} ^/fim/static/*
RewriteRule ^/fim/static/(.*) /static/$1 [PT]
</ifModule>
```


@@encoding@@	Page encoding	Mandatory, determines the encoding of the html template
@@lang@@	Page language	Mandatory, determines the language of the page
@@cardlogos@@	Card brand logos	Mandatory, show only enabled logos for the merchant
@@RecurringPaymentNumber@@	Total number of recurring payments	Optional, only valid for recurring payments
@@RecurringFrequency@@	Recurring frequency	Optional, only valid for recurring payments
@@RecurringFrequencyUnit@@	Recurring frequency unit in days (D)/weeks (W) or month (M)	Optional, only valid for recurring payments
@@INSTALMENT_COMMENT_START@@	Start tag for instalment comment.	If merchant submits recurring payment details, the instalment options will be commented out
@@INSTALMENT_COMMENT_END@@	End tag for instalment comment	
@@RECURRING_COMMENT_START@@	Start tag for recurring comment.	If merchant does not submit recurring payment details, the recurring info will be commented out
@@RECURRING_COMMENT_END@@	End tag for recurring comment	
@@allhiddenparams@@	Special variable containing all parameters which will be posted back to merchant.	Mandatory, this variable should not be removed from templates if present and must be within "form" element. Otherwise all information regarding to the trx will lost and merchant will not receive Post result

Main HTML Elements

- **logoform:** Form element, mandatory. If removed, the merchant will not get back transaction results. The action and method attributes should not be changed. *OnSubmit* action the form elements are validated with *validateCard* function.

```
<form action="/fim/est3Dgate" method="post" name="logoform" id="logoform"
onsubmit="validateCard('Sending, please wait...', '@@validatehash@@'); return false;
```

- **pan:** Input element for entering credit card number. If removed the credit card number will be blank and transaction will be rejected. *getInstalmentTable* function on *keyUp* action fetches the instalment options for this merchant and card brand after 6 digits of the pan is typed.
- **Instalment:** If the template doesn't support instalments, then you will need to remove instalment from this template or create another template without this part.

```
<input type="text" class="big" size="19" id="pan" name="pan" autocomplete="off"
maxlength="19" onkeyup="getInstalmentTable('@@instalmenthash@@')"> >
```

The above template is default for VUB. When instalment is not supported, the templates has to be updated or remove "onkeyup" part from them (like at the below example).

```
<td><input type="text" size="19" id="pan" name="pan" autocomplete="off"
maxlength="19"></td>
```

- **Ecom_Payment_Card_ExpDate_Month:** Input element for entering credit card expiry month. If removed the credit card number expiry month will be blank and transaction will be rejected.

```
<select name="Ecom_Payment_Card_ExpDate_Month" size="1" class="buy">
```

- **Ecom_Payment_Card_ExpDate_Year:** Input element for entering credit card expiry year. If removed the credit card number expiry year will be blank and transaction will be rejected.

```
<select name="Ecom_Payment_Card_ExpDate_Year" size="1" class="buy">
```

- **cv2:** Input element for entering credit card cvv/cvd/cv2 value. It is mandatory for some card brands. If removed the transaction can be rejected by defined rules or restrictions.

```
<input type="text" size="4" name="cv2" id="cv2" autocomplete="off" maxlength="4">
```

- **instalment:** Select element for instalments. The select options are filled dynamically with Ajax if merchant has instalment enabled and defined. The default option is "-". The table row with element with id=*tr_instalment*'s style is set to "*display:none:*" if no instalment is defined

```
<tr id="tr_instalment" style="display: none;">
  <td class="cardData2">Instalment:</td>
  <td>
    <select id="instalment" name="instalment" size="1" class="buy">
      <option value="">-</option>
    </select>
  </td>
</tr>
```

JavaScript

For Ajax function the following JavaScript source must be present on HTML file:

```
<script type="text/javascript" language="javascript" src="resource/js/ajax.js">
```

1.3.2 gateadrlogo.htm

[illegible]

Dynamic Template Variables

Variable Name	Explanation	Details
@@company@@	Company Name	Optional, only for information
@@dimuid@@	Nestpay Merchant ID	Optional, only for information
@@oid@@	Order Id	Optional, only for information
@@years@@	Dynamic select options for card expiry years.	Optional, a select box with every year in an option tag can be used.

	Starts from current year.	But every the first option must be changed.
@@amount@@	Transaction amount	Optional, only for information
@@currency@@	Currency code	Optional, only for information
@@encoding@@	Page encoding	Mandatory, determines the encoding of the html template
@@cardlogos@@	Card brand logos	Mandatory, show only enabled logos for the merchant
@@countries@@	Country codes and names as "option" tags of select tag	Optional
@@exchangeamounts@@	Amounts in different currencies as "option" tags of select tag (if the acquirer support currency exchange data import)	Optional
@@lang@@	Page language	Mandatory, determines the language of the page
@@RecurringPaymentNumber@@	Total number of recurring payments	Optional, only valid for recurring payments
@@RecurringFrequency@@	Recurring frequency	Optional, only valid for recurring payments
@@RecurringFrequencyUnit@@	Recurring frequency unit in days (D)/weeks (W) or month (M)	Optional, only valid for recurring payments
@@INSTALMENT_COMMENT_START@@	Start tag for instalment comment.	If merchant submits recurring payment details, the instalment options will be commented out
@@INSTALMENT_COMMENT_END@@	End tag for instalment comment	
@@RECURRING_COMMENT_START@@	Start tag for recurring comment.	If merchant does not submit recurring payment details, the recurring info will be commented out
@@RECURRING_COMMENT_END@@	End tag for recurring comment	
@@allhiddenparams@@	Special variable containing all parameters	Mandatory, this variable should not be removed from templates if

	which will be posted back to merchant.	present and must be within "form" element. Otherwise all information regarding to trx will lost and merchant will not receive Post result
@@BillToNameValue@@	BillToName parameter value on address details	Optional
@@BillToStreet1Value@@	BillToStreet1 parameter value on address details	
@@BillToStreet2Value@@	BillToStreet2 parameter value on address details	Optional
@@BillToStreet3Value@@	BillToStreet3 parameter value on address details	Optional
@@BillToPostalCodeValue@@	BillToPostalCode parameter value on address details	Optional
@@BillToCityValue@@	BillToCity parameter value on address details	Optional
@@BillToTelVoiceValue@@	BillToTelVoice parameter value on address details	Optional
@@ShipToNameValue@@	ShipToName parameter value on address details	Optional
@@ShipToStreet1Value@@	ShipToStreet1 parameter value on address details	Optional
@@ShipToStreet2Value@@	ShipToStreet2 parameter value on address details	Optional
@@ShipToStreet3Value@@	ShipToStreet3 parameter value on address details	Optional
@@ShipToPostalCodeValue@@	ShipToStreet1 parameter value on address details	Optional
@@ShipToCityValue@@	ShipToCity parameter	Optional

	value on address details	
@@ShipToTelVoiceValue@@	ShipToTelVoice parameter value on address details	Optional

Main HTML Elements

- **logoform**: Form element, mandatory. If removed, the merchant will not get back transaction results. The action and method attributes should not be changed. *OnSubmit* action the form elements are validated with *validateCard* function.

```
<form action="/fim/est3Dgate" method="post" name="logoform" id="logoform"
onsubmit="validateCard('Sending, please wait...','@@lang@@'); return false;">
```

- **pan**: Input element for entering credit card number. If removed the credit card number will be blank and transaction will be rejected. *getInstalmentTable* function on *keyUp* action fetches the instalment options for this merchant and card brand after 6 digits of the pan is typed.

```
<input type="text" size="19" id="pan" name="pan" autocomplete="off" maxlength="19"
onkeyup="getInstalmentTable('@@instalmenthash@@')">
```

- **Ecom_Payment_Card_ExpDate_Month**: Input element for entering credit card expiry month. If removed the credit card number expiry month will be blank and transaction will be rejected.

```
<select name="Ecom_Payment_Card_ExpDate_Month" size="1" class="buy">
```

- **Ecom_Payment_Card_ExpDate_Year**: Input element for entering credit card expiry year. If removed the credit card number expiry year will be blank and transaction will be rejected.

```
<select name="Ecom_Payment_Card_ExpDate_Year" size="1" class="buy">
```

- **cv2:** Input element for entering credit card cvv/cvd/cv2 value. It is mandatory for some card brands. If removed the transaction can be rejected by defined rules or restrictions.

```
<input type="text" size="4" name="cv2" id="cv2" autocomplete="off" maxlength="4">
```

- **instalment:** Select element for instalments. The select options are filled dynamically with Ajax if merchant has instalment enabled and defined. The default option is "-". The table row with element with id=*tr_instalment*'s style is set to *"display:none;"* if no instalment is defined

```
<tr id="tr_instalment" style="display: none;">
  <td class="cardData2">Instalment:</td>
  <td>
    <select id="instalment" name="instalment" size="1" class="buy">
      <option value="">-</option>
    </select>
  </td>
</tr>
```

- **BillToName:** Input element for entering the billing name of the cardholder

```
<input type="text" size="30" value="@@BillToNameValue@" name="BillToName"
id="BillToName" autocomplete="off" maxlength="40">
```

- **BillToStreet1:** Input element for entering the billing address line 1 of the cardholder

```
<input type="text" size="30" value="@@BillToStreet1Value@" name="BillToStreet1"
id="BillToStreet1" autocomplete="off" maxlength="60">
```

- **BillToStreet2:** Input element for entering the billing address line 2 of the cardholder

```
<input type="text" size="30" value="@@BillToStreet2Value@" name="BillToStreet2"
id="BillToStreet2" autocomplete="off" maxlength="60">
```

- **BillToStreet3:** Input element for entering the billing address line 3 of the cardholder

```
<input type="text" size="30" value="@@BillToStreet3Value@" name="BillToStreet3"
id="BillToStreet3" autocomplete="off" maxlength="60">
```


- **BillToPostalCode:** Input element for entering the billing postal code of the cardholder

```
<input type="text" size="30" value="@@BillToPostalCodeValue@"
name="BillToPostalCode" id="BillToPostalCode" autocomplete="off" maxlength="60">
```

- **BillToCountry:** Input element for entering the 3-letter billing country code of the cardholder

```
<select name="BillToCountry" id="BillToCountry"> @@countries@@</select>
```

- **BillToCity:** Input element for entering the billing city of the cardholder

```
<input type="text" size="30" value="@@BillToCityValue@" name="BillToCity" id="
BillToCity" autocomplete="off" maxlength="20">
```

- **BillToTelVoice:** Input element for entering the billing phone number of the cardholder

```
<input type="text" size="30" value="@@BillToTelVoiceValue@" name="BillToTelVoice"
id="BillToTelVoice" autocomplete="off" maxlength="20">
```

- **ShipToName:** Input element for entering the shipping name of the cardholder

```
<input type="text" size="30" value="@@ShipToNameValue@" name="ShipToName"
id="ShipToName" autocomplete="off" maxlength="40">
```

- **ShipToStreet1:** Input element for entering the shipping address line 1 of the cardholder

```
<input type="text" size="30" value="@@ShipToStreet1Value@" name="ShipToStreet1"
id="ShipToStreet1" autocomplete="off" maxlength="60">
```

- **ShipToStreet2:** Input element for entering the shipping address line 2 of the cardholder

```
<input type="text" size="30" value="@@ShipToStreet2Value@" name="ShipToStreet2"
id="ShipToStreet2" autocomplete="off" maxlength="60">
```

- **ShipToStreet3:** Input element for entering the shipping address line 3 of the cardholder

```
<input type="text" size="30" value="@@ShipToStreet3Value@" name="ShipToStreet3" id="ShipToStreet3" autocomplete="off" maxlength="60">
```

- **ShipToPostalCode:** Input element for entering the shipping postal code of the cardholder

```
<input type="text" size="30" value="@@ShipToPostalCodeValue@" name="ShipToPostalCode" id=" ShipToPostalCode" autocomplete="off" maxlength="60">
```

- **ShipToCountry:** Input element for entering the 3-letter shipping country code of the cardholder

```
<select name=" ShipToCountry" id="ShipToCountry"> @@countries@@</select>
```

- **ShipToCity:** Input element for entering the shipping city of the cardholder

```
<input type="text" size="30" value="@@ShipToCityValue@" name="ShipToCity" id="ShipToCity" autocomplete="off" maxlength="20">
```

- **ShipToTelVoice:** Input element for entering the shipping phone number of the cardholder

```
<input type="text" size="30" value="@@ShipToTelVoiceValue@" name=" ShipToTelVoice" id=" ShipToTelVoice" autocomplete="off" maxlength="20">
```

1.3.3 gateresultnologo.htm

If the payment pages are hosted by the merchant, the result page (gateresultlogofail.htm or gateresultlogosuccess.htm) is omitted and the payment result is posted to the merchant. The card holder is redirected to e-shop if JavaScript is enabled with gateresultnologo.htm page. If JavaScript is not enabled the card holder must click on the button to redirect to merchant e-shop. Do not edit this page.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=@@encoding@@">
<script type="text/javascript" language="javascript">
function moveWindow() {
    document.returnform.submit();
}
</script>
</head>

<body onLoad="javascript:moveWindow()">
<form action="@@returnurl@@" method="post" name="returnform">
    @@allhiddenparams@@

    <!-- To support javascript unaware/disabled browsers -->
    <noscript>
        <center>
            Please Click to continue.<br>
            <input type="submit" name="submit" value="Submit"></center>
        </noscript>
    </form>
</body>
```

1.3.4 gatestaterr.htm

It is forbidden to go back and forth on payment pages. If cardholder goes to the previous payment page, gate state error occurs. This is a simple HTML page without any dynamic variables. It can be customized.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
<head>
<TITLE>Error</TITLE>
</head>
<body>
    <center>Invalid state. Please close this window and start over.<br>
    </center>
</body>
```

1.3.5 gatestatetimeout.htm

The cardholder can spend time on a payment page only for certain amount of time. This time is adjusted on fim.properties file with gate.statetimetype.global property. If the timeout value is exceeded and cardholder clicks on the submit page the gatestatetimetype.htm page is shown to the cardholder. This is a simple HTML page without any dynamic variables. It can be customized.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<TITLE> Error </TITLE>
</head>
<body>
  <center>
    Timeout. Please close this window and start over.<br>
  </center>
</body>
</html>
```

1.4 Template Upload through Merchant Center

Template files and resource (css and images) can be also uploaded on Merchant Center. All files and resources should have the following directory structure:

Zip file → Template file (e.g gatelogo_en.htm)

→ Resources folder → Css file

→ Image file 1

→ Image file 2

The template file name should be one the available template names:

→ gatelogo.htm

→ gateadrellogo.htm

The language of the template is added with its 2-letter code before the file extension: gatelogo_en.htm where "en" is the code for English. Any template not matching to this rule will be rejected automatically during upload.

All resources must be bundled within the zip file. If merchant upload a template file all images and css files must be in the resources folder of the zip. The format of the relative path of the resources is following:

templates?dimUid=[DIMUID]&file=[RESOURCE_DIR/FILE_NAME]

Example for css file whose name is style.css and copied in resources folder of zip file:

```
<link rel="stylesheet" href="templates?dimuid=700012345&file=resources/style.css" type="text/css">
```

Example for image file whose name is logo.png:

```
</td>
```

All resources not obeying this format will not be displayed on template.

1.5 Useful Functions

Here you can find some useful Javascript function that can be used in templates.

1. Disable F5/Ctrl+F5/Ctrl+R in Chrome, Firefox and Explorer

```
<script language="JavaScript" type="text/JavaScript">
    //this code disables F5/Ctrl+F5/Ctrl+R in Chrome, Firefox and Explorer
    document.onkeydown = disableF5
    function disableF5(e) { if ((e.which || e.keyCode) == 116 || ((e.which || e.keyCode) == 82 && e.ctrlKey))
    e.preventDefault(); };
    $(document).on("keydown", disableF5);
</script>
```

2. Disable backward in Chrome, Firefox and Explorer

```
<script language="JavaScript" type="text/JavaScript">
    //this code disables backward in Chrome, Firefox and Explorer
    history.pushState(null, null, "");
    window.addEventListener('popstate', function(event) {
    history.pushState(null, null, "");
    });
</script>
```

3. Copy blocking

```
<script language="JavaScript" type="text/JavaScript">
    var message = "This is copyrighted page - copying is not permitted!!!";
    function clickIE4() {
```

```
if (event.button == 2) {  
    alert(message);  
    return false;  
}  
}  
function clickNS4(e) {  
    if (document.layers || document.getElementById && !document.all) {  
        if (e.which == 2 || e.which == 3) {  
            alert(message);  
            return false;  
        }  
    }  
}  
if (document.layers) {  
    document.captureEvents(Event.MOUSEDOWN);  
    document.onmousedown = clickNS4;  
}  
else if (document.all && !document.getElementById) {  
    document.onmousedown = clickIE4;  
}  
document.oncontextmenu = new Function("alert(message);return false")  
  
</script>
```