

API Integration Guide

Module 1

Gate-E API Specifications

| Gate-E APIs

Gate-E APIs are implemented intelligently with consideration of the security and easiness integration process to fulfill the E-Payment requirements.

| API Endpoints

- Live Environment: <https://www.gate-e.com>
- Test Environment: <https://www.test.gate-e.com>

| API Recommendations

To ensure that the integration process follows the best practice scenario, the below details should be considered: -

- Passing the payer information [name, mobile, email, ... etc]
- Using “background” action instead of normal [action= background]
- Using calculated hash
- Using “https” for all APIs’ calls

| API Modules

- Initiate Payment
- Payment Process
- Process Response
- Auto-Deduct
- List saved payment card(s)

| API Settings

- To find your unique ID and hash: Go to Gate-E Portal > Settings > API Settings
- To get sample codes and free shipping cart plugins:
<https://doc.gate-e.com/simulator/v02/>
- To get support:
Email: support@gate-e.com
TEL: +973 17684511

Module 2

Initiate Payment

APIs END-POINT

Test environment: <https://www.test.gate-e.com/api/process.php>

Live environment: <https://www.gate-e.com/api/process.php>

| Initiate Payment

The payment process starts by sending an initiating payment request through the “Initiate Payment” API.

| Initiate Payment parameters

Name	Parameter	Type	Required	Description
Merchant ID (Unique ID)	unique_id	String	Required	The unique ID of the company, you can get it from API Settings.
API Type	api_type	Integer	Required	If there is no value, the system will select default API type: <ol style="list-style-type: none">1. Use API through customer registration (value: 1 - default)2. Use API without customer registration (value: 2)3. Use API through customer registration & customer information only (value: 3)4. Use API though customer login only (value: 4)
Original amount	amount	Number	Required	Set the required amount of the payment.
Tax rate	tax_rate	Number	Optional	Set the tax rate for the payment.
Tax amount	tax_amount	Number	Optional	Set the tax amount for the payment. <ul style="list-style-type: none">- Take higher priority when provided with tax_rate, tax_rate will be ignored if both provided.
Tax countries	tax_country_include	String	Optional	Set tax applicable countries. <ul style="list-style-type: none">- Country codes separated by comma “,”- Default is “all”, to apply to all customers.
Tax excluded countries	tax_country_exclude	String	Optional	Set which countries are to be excluded from Tax <ul style="list-style-type: none">- Country codes separated by comma “,”
Reference Code	ref_code	String	Optional	Transaction reference code.

Currency code	currency_code	String	Optional	<p>Currency code in which the payment will be presented and converted.</p> <ul style="list-style-type: none"> - Note that the final payment will be in your Gate-E account currency. - Required with currency rate.
Currency rate	currency_rate	Number	Optional	<p>Currency rate to convert to Gate-E account currency.</p> <ul style="list-style-type: none"> - Note that the final payment amount will be converted using this currency rate instead of Gate-E standard rates. - Required with currency code.
Customer tax registration ID	customer_tax_tin	String	Optional	Set the customer tax registration number.
Description	description	String	Optional	Set your custom description of the payment.
Action	action	String	Optional	<p>How to process payment data:</p> <ol style="list-style-type: none"> 1. Process payment data normally (value: normal - default) 2. Process payment data in background (value: background). <p>Then, the system will return (payment_id, payment_url, & status) in JSON format; in this case the other party should redirect the user to payment URL.</p> <p>Otherwise, the system will return error code and error message (code & error) in JSON format.</p>
Required fields	required_fields	String	Optional	<p>When you activate “API type 3”, you can identify required fields that the customer should fill them before precede payment. Fields should be separated by comma “,”.</p> <p>Accepted fields:</p> <ol style="list-style-type: none"> 1. Customer email [email] 2. Customer name [name] 3. Customer mobile [mobile] 4. Customer gender [gender] 5. Customer address [address]
Redirect to gateway	redirect_to_gateway	String	Optional	You can submit payment gateway id and the system will redirect the user to the selected payment gateway
Callback URL	callback_url	String	Optional	The system will post the result and then return to this URL.

Show Callback Page	show_callback	Integer	Optional	<ol style="list-style-type: none"> 1. The API will show Gate-E Callback page (value: 1) 2. The API will not show Gate-E Callback page (value: 0)
Payment Gateways	payment_gateways_id	String	Optional	<p>When the user enters payment gateways the system will be limited to these gateways, and the gateways it should be separated by comma “,”.</p> <p>If no payment gateways the system will allow the customer to pay with any active payment gateways in API Setting.</p>
Optional Fields	<ol style="list-style-type: none"> 1. field1 2. field2 3. field3 4. field4 5. field5 	String	Optional	You can enter any information you need, and system will return it back in callback. It is required calculated hash.
Extra field	extra_field	String	Optional	You can enter any information you need, and system will return it back in callback.
Company Name	company_name	String	Optional	Your customer Company name that he will pay the amount, this information automatically will post it in registration form.
Customer Name	name	String	Optional	Your customer name that he will pay the amount, this information automatically will post it in registration form.
Customer Email	email	String	Optional	Your customer email will automatically post it in registration form.
Customer Mobile	mobile	Number	Optional	Your customer mobile will automatically post it in registration form.
Customer Gender	gender	Char	Optional	Your customer gender (M/F) will automatically post it in registration form.
Customer Country	country	String	Optional	Your customer country will automatically post it in registration form.
Customer City	city	String	Optional	Your customer city will automatically post it in registration form.
Customer Address	address	String	Optional	Your customer address will automatically post it in registration form.
Customer Note	note	String	Optional	The customer can write note for company and this field not calculated in hash.

Send Customer Address	send_address	String	Optional	This option will post your customer address automatically in the generated invoice after successful payment. To activate this option, you should post "YES".
Send Email	email_send	Integer	Optional	Send the code link through email to client/merchant or both. Accepted values: - 0 : do not send - 1 : send to client only - 2 : send to merchant only - 3 : send to both (merchant & client)
Send SMS	sms_send	Integer	Optional	Send the code link through SMS to client/merchant or both. Accepted values: - 0 : do not send - 1 : send to client only - 2 : send to merchant only - 3 : send to both (merchant & client)
Locale	locale	String	Optional	Set your custom language of the payment. Accepted values: 1. en (English) 2. ar (Arabic)
Calculated Hash	calculated_hash	String	Optional	The calculated hash will be calculated according to posted data of the above list, and you need to put your API hash also. The payment will mention as validated if you use this feature otherwise no.
* Auto Deduct	auto_deduct	Bool	Optional	Accepted values: - 1: Pay using auto-deduct - 0: Pay without auto-deduct Default value: 0
* Payer Code	user_code	String	Optional	- User code used to save the payer cards under its value
* Save Payer Card	card_save	String	Optional	Accepted values: - "checked": save card option is checked by default, but the customer can uncheck it. - "unchecked": save card option is unchecked by default, but the customer can check it. - "force": force the customer to save the card. - "disable": disable the save card option. Default value: "unchecked"
* List Payer Saved Cards	card_list	Integer	Optional	Accepted values: - 1: show saved cards' list if available - 0: hide saved cards' list if available

** Required parameters for Save-Card feature (Module 4)*

| Initiate Payment sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
unique_id	:	"xxxxxxx"
amount	:	1.5
api_type	:	2
action	:	"background"

| Initiate Payment sample response

API Response	
<pre>{ "status" : "success", "payment_id" : "3755740044958400", "payment_url" : "https://gate-e.com/api/payment.php?payment_id=3755740044958400" }</pre>	

Module 3

Payment Processing

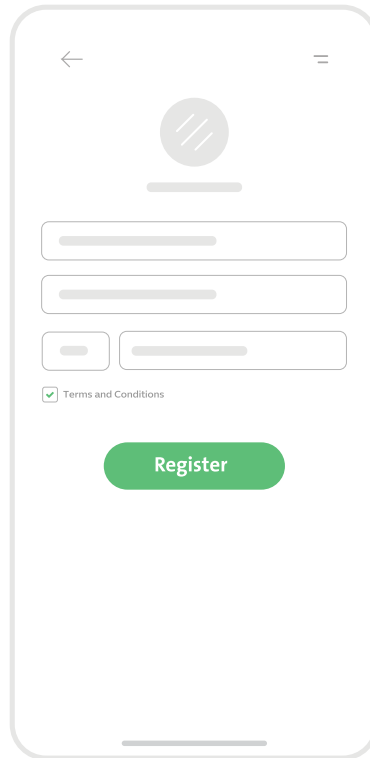
APIs END-POINT

Test environment: <https://www.test.gate-e.com/api/payment.php>

Live environment: <https://www.gate-e.com/api/payment.php>

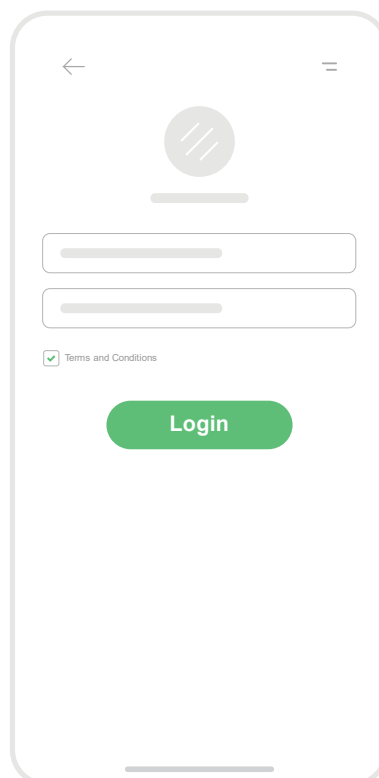
Step 3.1

In the integration process, if the used API type is “1”, the posted payer information will be showing in a form to complete the information then payer can register.



A mobile app registration form. At the top, there is a back arrow on the left and a menu icon on the right. Below them is a circular profile picture placeholder with three diagonal lines. Underneath is a horizontal line. The form consists of three input fields: a single-line text field, a single-line text field, and a two-line text field. Below the input fields is a checkbox labeled "Terms and Conditions". At the bottom is a green rounded button with the text "Register".

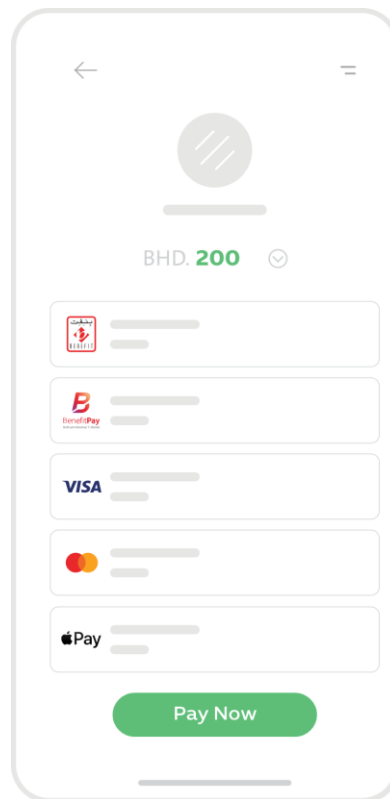
When the payer has a registered account and the integration API Type is “1”, the payer can login with his account credentials.



A mobile app login form. At the top, there is a back arrow on the left and a menu icon on the right. Below them is a circular profile picture placeholder with three diagonal lines. Underneath is a horizontal line. The form consists of two input fields: a single-line text field and a single-line text field. Below the input fields is a checkbox labeled "Terms and Conditions". At the bottom is a green rounded button with the text "Login".

Step 3.2

The payer will be redirected to the payment page, where he/she can select the preferred payment gateway to proceed with the payment.



Step 3.3

After the payment gateway selection, the payer will enter the payment details (i.e. payment card details) as per the required fields. The input will be processed, and Gate-E will process, verify, and show the results as per the payment gateways processing response. Once the response is finalized, Gate-E will redirect the payer to the Callback URL.

Module 4

Processing Response

API END-POINT

Get Payment

Test environment: <https://www.test.gate-e.com/api/getpayment.php>

Live environment: <https://www.gate-e.com/api/getpayment.php>

Update Payment

Test environment: <https://www.test.gate-e.com/api/updatepayment.php>

Live environment: <https://www.gate-e.com/api/updatepayment.php>

Step 4.1

The system will post these data in callback URL:

Name	Field Name	Description
* Amount	amount	The amount in BHD currency.
* Unique ID	unique_id	The unique ID of the company, you can get it from API Settings.
* Gateway ID	gateway_user_id	Your gateway ID that the customer paid with
* Optional Fields	<ol style="list-style-type: none"> field1 field2 field3 field4 field5 	Information that you entered in processing step, Gate-E will return it back.
* Extra field	extra_field	Information that you entered in processing step, Gate-E will return it back.
Payment ID	payment_id	The payment ID generated by Gate-E, it is for reviewing the payment.
* Note	note	The customer notes for the company and this field is not calculated in hash.
* Status	status	The payment status: <ol style="list-style-type: none"> completed: means the customer complete the payment successfully. uncompleted: means the customer does not complete the payment successfully
* Invoice ID	invoice_id	Gate-E will create an invoice with amount and description automatically, and this ID is for that invoice. You can review the invoice in Gate-e
* Transaction ID	transaction_id	Gate-E will create a transaction for invoice that generated automatically, and this ID is for that transaction. You can review the transaction in Gate-E.
Calculated Hash	calculated_hash	The hash will be calculated according to response data from the list above and your hash.
* Validated	validated	Payment has been validated YES / NO in processing phase.

* These data will be sent only if the option "Submit Payment Parameters During Redirection" is enabled in

Gate-E Portal > Settings > API Setting

Otherwise, it will send only the payment ID and the calculated hash, and the other details can be obtained from "Get Payment" API.

| Payment Callback sample

```
{
  "payment_id"           : "3755740044958300",
  "calculated_hash"      : "9d9d44be00dd8f4fw5bsfyfdsf9e01deee",
}
```

| Payment Callback sample ("Submit Payment Parameters During Redirection" enabled)

```
{
  "original_amount"      : "0.01",
  "tax_amount"           : "0",
  "tax_rate"             : "",
  "amount"               : "0.01",
  "extra_field"          : "",
  "field1"               : "",
  "field2"               : "",
  "field3"               : "",
  "field4"               : "",
  "field5"               : "",
  "gateway_user_id"      : "202697",
  "invoice_id"           : "314725",
  "note"                 : "",
  "payment_id"           : "3755740044958300",
  "status"               : "completed",
  "transaction_id"       : "000000",
  "unique_id"            : "xxxxxx",
  "validated"            : "YES",
  "calculated_hash"      : "9d9d44be00dd8f4fw5bsfyfdsf9e01deee",
}
```


Step 4.2

After the Payment processing, the payment transaction details can be retrieved using the “Get Payment” API.

Initiate Payment parameters

Name	Field Name	Required	Description
Unique ID	unique_id	Required	Unique ID of the company, you can get it from API Setting.
Hash	hash	Required	Hash of the company, you can get it from API Setting.
Payment ID	payment_id	Required	Payment ID that returns to callback URL from Gate-E.

Get Payment sample request

Accepted Methods: GET / POST (POST recommended)	
Request Parameters:	
unique_id	: "xxxxxxx"
hash	: "ABCDEFGFG0123456ABCDEFGHJKLMNOP13345"
payment_id	: "3755740044958300"

Get Payment sample response

```
{
  "payment_id"      : "3755740044958300",
  "assigned"        : "YES",
  "api_type"        : 2,
  "action"          : "background",
  "creation_date"    : "2022-10-11 14:03:45",
  "currency"        : "BHD",
  "decimal_points"   : 3,
  "unit_per_USD"     : 0.3770000041,
  "unit_per_BHD"     : 1,
  "amount"          : 1.110,
  "unique_id"       : "000000",
  "company_id"      : 3623,
}
```

```
"payment_gateways_id"      : "",
"description"              : "Default description",
"note"                     : "",
"redirect_to_gateway"      : null,
"gaatee_invoice"           : null,
"callback_url"             : "http://domain.com/callback.php",
"show_callback"            : 0,
"field1"                   : "",
"field2"                   : "",
"field3"                   : "",
"field4"                   : "",
"field5"                   : "",
"name"                     : "",
"email"                    : "",
"mobile"                   : "",
"gender"                   : "M",
"country"                  : "BH",
"city"                     : "",
"address"                  : "",
"send_address"             : "",
"locale"                   : "en",
"invoice_id"               : "000003",
"transaction_id"           : 794380,
"processed"                : 1,
"status"                   : "completed",
"validated"                : "YES",
. . .
}
```

Step 4.3

The Payment record can be updated through the “Update Payment” API by sending the processed payment parameter along with the entity information.

Name	Field Name	Required	Description
Unique ID	unique_id	Required	Unique ID of the company, you can get it from API Setting.
Hash	hash	Required	Hash of the company, you can get it from API Setting.
Payment ID	payment_id	Required	Payment ID that is returned to callback URL from Gate-E.
Processed Status	processed	Required	Status of the payment that has been or not. (Accepted values: 0 / 1)

Update Payment sample request

Accepted Methods: GET / POST (POST recommended)	
Request Parameters:	
unique_id	: "xxxxxxx"
hash	: "ABCDEFGFG0123456ABCDEFGHJKLMNOP13345"
payment_id	: "3755740044958300"
processed	: 1

Update Payment sample response

API Response	
{	
"status"	: "success",
"msg"	: "Update Done"
}	

Module 5

Save Card

APIs END-POINT

Payment Process

Test environment: <https://www.test.gate-e.com/api/process.php>

Live environment: <https://www.gate-e.com/api/process.php>

Auto-deduct

Test environment: https://www.test.gate-e.com/api/auto_deduct.php

Live environment: https://www.gate-e.com/api/auto_deduct.php

| Option 1 card-code

In this option, when the payer selects “save card”, a card-code will be generated to be used for the auto-deduct feature in the next payment transactions.

Save Card steps: -

- Step 1: Make a Payment
- Step 2: Get card-code
- Step 3: Use card-code to Pay/Auto Deduct

| Step 1 Make a Payment

- Make a payment transaction (Module 2 & 3).
- The payer should select save card option at the step of providing the card information during the payment.
- Gate-E will generate a card-code for the used payment card.
- The generated code can be obtained using a get payment request (Module 4).

| Initiate Payment sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
unique_id	:	"xxxxxx"
amount	:	1.5
api_type:	:	2
action	:	"background"

| Initiate Payment sample response

API Response	
<pre>{ "status" : "success", "payment_id" : "3755740044958500", "payment_url" : "https://gate-e.com/api/payment.php?payment_id=3755740044958500" }</pre>	

Step 2 Get card-code

The generated card-code in Step 1 can be found in the payment information which can be obtained using get payment request (Module 4). The obtained token should be saved to let the customer pay with the saved card in the coming payments (Step 3).

Get Payment sample request

Accepted Methods:	GET / POST (POST recommended)
Request Parameters:	
unique_id	: "xxxxxxx"
hash	: "ABCDEFG0123456ABCDEFGHJKLMNOP13345"
Payment_id:	: "3755740044958500"

Get Payment sample response

API Response
<pre>{ "payment_id" : "3755740044958500", "unique_id" : "xxxxxxx" ... "card" : { "code" : "12365abcdef-dlefg hijklmnopqrstuvwxyztee8bd8877898" } }</pre>

Step 3 Use card-code

In the coming payment process, when a customer chooses to pay with a saved card, an additional field (auto_deduct = 1) should be submitted along with the initiate-payment parameters (Module 2).

Name	Field Name	Required	Description
Auto Deduct	auto_deduct	Optional	Value should be "yes" to use customer's saved card, and "no" to process the payment without saved card.

| Payment Process sample request

Accepted Methods: GET / POST (POST recommended)	
Request Parameters:	
unique_id	: "xxxxxx"
amount	: 1.5
api_type:	: 2
action	: "background"
auto_deduct	: 1

| Payment Process sample response

API Response	
{	
"status"	: "success",
"payment_id"	: "3755740044958500",
"payment_url"	: "https://gate-e.com/api/auto_deduct.php?payment_id=3755740044958500"
}	

The response of the payment process will include payment id and payment link. The code which obtained from Step 2, with other parameters (refer to the following table) should be submitted to the auto deduct link.

| Auto-Deduct Parameters

Name	Field Name	Required	Description
Payment ID	payment_id	Required	Payment ID returned from the payment process
Card Code	card_code	Required	Card code returned by Gate-E (represents the customer's saved card)
Security Code	security_code	Optional	CVV Payment Card

The payment link will return the status of the payment with a message. If the payment is successful, the status will be true. In case the payment failed, the status will be false, and the reason will be indicated in the message.

| Auto-deduct sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
Payment_id	:	"3755740044958500"
token_code	:	"12365abcdef-dlefg hijklmnopqrstuvwxyztee8bd8877898"
security_code	:	111

| Auto-Deduct sample response (success)

API Response	
<pre>{ "status" :true, "msg" : "Paid" "gateway_msg" : "Apprpoved" }</pre>	

| Auto-Deduct sample response (Failure)

API Response	
<pre>{ "status" :false, "msg" : "Invalid Payment ID" }</pre>	

| Option 2 User-code

In this option, a user-code should be submitted with the initiate payment parameters (Module 2). When the payer selects save-card, it will be saved under the provided user-code. In the coming payments, the same user-code should be submitted to list the saved payment cards for the user.

List cards steps:

- Step 1: Make a Payment
- Step 2: Get user-code
- Step 3: Use user- code

| Step 1 Make a Payment

- Make a payment transaction and provide a user-code along with the initiate payment parameters (Module 2).
- The payer selects save card option at the step of providing the card information during the payment.
- The payment card will be saved under the provided user-code.

| Get Payment sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
unique_id	:	"xxxxxxx"
amount	:	1.5
api_type:	:	2
action	:	"background"
user_code	:	"uc-user0001"
card_save	:	"checked"

| Get Payment sample response

API Response	
<pre>{ "status" : "success", "payment_id" : "3755740044958500", "payment_url" : "https://gate-e.com/api/payment.php?payment_id=3755740044958500" }</pre>	

| Step 2 Get user-code

- If no user-code submitted with the process request, Gate-E will generate a new one. The generated code can be obtained using a get payment request (Module 4).
- The obtained code should be saved to let the user pay with the saved card(s) in the coming payments (Step 3).

| Get Payment sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
unique_id	:	"xxxxxx"
hash	:	"ABCDEFG0123456ABCDEFGHJKLMNOP13345"
Payment_id:	:	"3755740044958500"

| Get Payment sample response

API Response	
<pre>{ "payment_id" : "3755740044958500", "unique_id" : "xxxxxx" "payment_url" : "https://gate-e.com/api/payment.php?payment_id=3755740044958500" "user_code" : " uc-user0001" }</pre>	

| Step 3 Use user-code

- In the coming payment processes, to show the list of saved cards for the user, additional fields (card_list and user_code, refer to the following table) should be submitted along with the other payment-related fields in the initiate-payment parameters (Module 2). Then, the payment page will list all saved cards that belong to the submitted user code.
- The token of used card can be obtained using the get payment request (Module 4).

Name	Field Name	Required	Description
Saved Card List	card_list	Optional	Value should be 1 to show the list of user's saved cards.
User Code	user_code	Optional	A unique code that represents the user. It will be used to show the list of saved cards that

			belongs to the user. Expected value: uc-#####
--	--	--	--

| Get Payment sample request

Accepted Methods:		GET / POST (POST recommended)
Request Parameters:		
unique_id	:	"xxxxxx"
amount	:	1.5
api_type:	:	2
action	:	"background"
user_code	:	"uc-user0001"
Card_list	:	1

| Get Payment sample response

API Response	
<pre>{ "status" : "success", "payment_id" : "3755740044958500", "payment_url" : "https://gate-e.com/api/payment.php?payment_id=3755740044958500" }</pre>	