Technical Reference EVO Gateway

Capture

June 28, 2021

Simplifying Payments AROUND THE GLOBE

Changes in contrast to the previous document version

Chapter no.	Key word	Content of change	Author (initials)	Date
All		New document	CE	06/28/2021

Changes in contrast to the previous document version

About this document

Document Purpose

The purpose of this document is to describe the Capture API Operation to enable merchant developers to integrate their webpages with the EVO Gateway. Refer to the **Technical Reference EVO Gateway – API Operations Overview** for how this API Operation is used in the merchant processes.

A Capture API Operation is required after an Auth Request, not a Purchase Request.

Transaction Status

All transactions that can be captured have the status **SET_FOR_CAPTURE**, which means the payment is authorized, through the Auth / Purchase / Verify – API Operation (see **Technical Reference EVO Gateway – Auth / Purchase / Verify (Direct API Integration)** or **Technical Reference EVO Gateway – Auth / Purchase / Verify (Hosted Payment Page Integration)**, as appropriate to the integration method)).

The successful Capture API Operation will set the transaction status to Captured.

A Capture API Operation can be unsuccessful for two reasons:
> The transaction status is set to **ERROR** if there was an error in the API Operation
>> usually the result of a communication error between the customer browser and the EVO Gateway
> The transaction status is set to **DECLINED** if:
>> the card payment was refused by the acquirer, or
>> the 3DS authentication failed

A failure response is sent.

Funds Transfer

The transfer of funds from the customers' accounts to the merchant account is not instantaneous.

The EVO Gateway Capture API Operation flags transactions for batch processing later in the day, according to the acquirers' requirements. This batch process informs the acquirer that the funds should be transferred.

The actual transfer of funds is performed by the acquirer.

This delay allows for the Void API Operation (see **Technical Reference EVO Gateway – Void**) to be performed before the Capture API Operation.

Only the full authorized amount of the transaction can be captured, based on the amount authorized in the Auth API operation. Partial captures are currently not supported.

Full or Partial Captures

The EVO Gateway caters for full or partial captures. If the full amount is not captured the residual amount is released to the cardholder. Multiple partial captures are not currently catered for.

Explanation of role-related terms

Three main roles exist in the complex scenario of payment processing. Depending on the perspective and situation at hand, two of these can act as customers, or two of them as service providers. To enable a clear distinction, systematic use will be made of the following terms:

Merchant or Client

Uses, in its capacity as merchant or services provider, the products of EVO Payments to settle payments for the goods or services it offers. Is the contract partner and thus the direct "customer" of EVO Payments.

Customer or end customer

Customers who purchase goods from the merchant or services from the service provider; are contractual partners of the merchant / service partner and not of EVO Payments.

EVO Payments

EVO Payments provides services connected with payment processing and acts as the link between the parties, especially the merchant / service provider and other establishments such as card organizations and other institutions involved in the processing of payments.

Terms in the EVO Payments XML language

All terms belonging to the EVO Payments XML language are displayed in "Consolas" font in this document (e. g. **additionalDetails**). If such XML terms are separated by line breaks, they do not have a hyphen, as this might lead to misunderstandings in the spelling of the programming terms. Thus, if an XML term is separated by a line break in this document, the line break must be ignored when programming.

Example:
Text in this document text in this document text in this document text in this document text in **additional Details** document text in this document text in this Dokument Text in …

Text when programming: **additionalDetails**

Note bulleting conventions

Two forms of note bulleting are used in this document:

> Notes providing useful (but not absolutely vital) information:

➡ Please note …

> Notes that must be observed under all circumstances to avoid the risk of functional problems:

! It is imperative that …

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1. Session Token API Operation

1.1 Session Token Request

Format: POST Request to Session Token Request URL (see section 3 of the **Technical Reference EVO Gateway – API Operations Overview**)

Parameter	Data Type	Field length	Man-datory	Comment
merchantId	Integer	18	Yes	The identifier for the merchant in the EVO Gateway provided at on-boarding
password	String	64	Yes	The merchant's password to the EVO Gateway provided at on-boarding
action	String	(enum)	Yes	Must be **CAPTURE**
timestamp	Integer	18	Yes	Milliseconds since 1970-01-01 00:00:00
allowOriginUrl	String	253	Yes	The merchant's URL that will make the Capture Request (section 2.1) Cross-Origin Resource Sharing (CORS) headers will allow only this origin.
originalTxId	String	18	No	The EVO Gateway transaction ID of the transaction to be captured This will have been returned in the **txId** field of the Auth / Purchase Response – Processed (see **Technical Reference EVO Gateway – Auth / Purchase / Verify (Direct API Integration)** or **Technical Reference EVO Gateway – Auth / Purchase / Verify (Hosted Payment Page Integration)**, as appropriate to the integration method)
originalMerchant TxId	String	50	Yes	The merchant's original transaction identifier of the transaction to be captured, that was provided in the **merchantTxId** field of the Auth / Purchase Session Token Request and Auth / Purchase Request (see **Technical Reference EVO Gateway – Auth / Purchase / Verify (Direct API Integration)** or **Technical Reference EVO Gateway – Auth / Purchase / Verify (Hosted Payment Page Integration)**, as appropriate to the integration method)

Parameter	Data Type	Field length	Man-datory	Comment
agentId	String	18	No	Identifier of the merchant's operator or agent on behalf of the end customer, if the operation is not performed by the merchant, and the merchant wants to track the operator who performed the transaction **Note:** This is different to the **operator Id** and **userAgent** fields of the Auth / Purchase Response – Processed (see **Technical Reference EVO Gateway – Auth / Purchase / Verify (Direct API Integration)** or **Technical Reference EVO Gateway – Auth / Purchase / Verify (Hosted Payment Page Inte-gration)**, as appropriate to the integra-tion method)
amount	BigDeci-mal (10.2 or 10.3) BigDeci-mal (15.2 or 15.3)		Yes	The amount to capture Can be less than or equal to the origi-nal transaction amount. Cannot be more than the original trans-action amount.

Example

```
merchantId=1111111&password=klw74U6yt40mNo&originalTxId=123456789&origi-
nalMerchantTxId=XYZ123456789ABC&allowOriginUrl=www.merchantsite.com&ac-
tion=CAPTURE&timestamp=1249751864238&agentId=brian01&amount=120
```

1.2　Session Token Response – Processed

Format: JSON

Parameter	Data Type	Field length	Comment
result	String	40	Will always be **success**
merchantId	Integer	18	The **merchantId** value received in the Session Token Request (section 1.1)
token	String	40	The Session Token that is a one-time use, hexa-decimal string The Session Token that must only be used for the Capture Request (see section 2.1). Session tokens are valid for 3600 seconds (1 hour) after which they expire. Any requests with expired session tokens will be rejected.

Parameter	Data Type	Field length	Comment
resultId	String	40	Hexadecimal string that is to be used in any support request calls
processingTime	Integer	6	The time in seconds for the process to complete
additionalDetails	Array		Not used – will always be "**{}**" or not included

Example

```
{
"result":"success",
"merchantId":1111111,
"token":"abcde12345abcde12345",
"resultId":"fghij67890fghij67890",
"processingTime": 2
}
```

1.3   Session Token Response – Not Processed

Format: JSON

Parameter	Data Type	Field length	Comment
result	String	40	Will always be **failure**
resultId	String	40	Hexadecimal string that is to be used in any support request calls
processingTime	Integer	6	The time in seconds for the process to complete
additionalDetails	Array		Not used – will always be "**{}**" or not included
errors	String Array		List of issues

Example

```
{
"result":"failure",
"merchantId":1111111,
"errors":[ { "messageCode": "This field is required in [REQUEST]", "fieldName": "password" } ],
"processingTime": 4
}
```

2. Capture API Operation

2.1 Capture Request

Format: POST Request to Action Request URL (see section 3 of the **Technical Reference EVO Gateway – API Operations Overview**)

Parameter	Data Type	Field length	Man-datory	Comment
merchantId	Integer	18	Yes	The identifier for the merchant in the EVO Gateway provided at on-boarding This must be the same as that sent in the Session Token Request (section 1.1).
token	String	40	Yes	Session Token received in the Session Token Response – Processed (section 1.2)

Example

```
merchantId=1111111&token=abcde12345abcde12345
```

2.2 Capture Response – Processed

Format: JSON

Parameter	Data Type	Field length	Comment
result	String	40	Will always be **success**
merchantId	Integer	18	The **merchantId** value sent in the Session Token Request (section 1.1)
action	String	(enum)	Will always be **CAPTURE**
originalMerchantTxId	String	50	The merchant transaction identifier of the transaction that was captured
originalTxId	Integer	18	The EVO Gateway transaction ID of the transaction captured sent in the Session Token Request (section 1.1)
txId	Integer	18	The unique identifier for the capture transaction in the EVO Gateway
amount	BigDecimal (15.2 or 15.3)		The transaction amount captured sent in the Session Token Request (section 1.1)
customerId	String	20	The EVO Gateway customer identifier used in the original and capture transactions
pan	String	100	The customer account value / number used in the original and the capture transactions
brandId	Integer	18	The **brandId** value for the original and the capture transaction

Parameter	Data Type	Field length	Comment
paymentSolutionId	Integer	18	The **paymentSolutionId** value used in the original and capture transactions
status	String	(enum)	The status of the transaction in EVO Gateway:

Status	Condition
SET_FOR_CAPTURE	If **CAPTURE** successful
	All capture transactions are batch processed, when the status will be set to **CAPTURED**.
ERROR	If an error was returned by the payment process

Parameter	Data Type	Field length	Comment
errors	String	400	Any errors that occurred during the successful processing of a transaction
resultId	String	40	Hexadecimal string that is to be used in any support request calls
additionalDetails	Array		Not used – will always be "**{}**" or not included
processingTime	Integer	6	The time in seconds for the process to complete
customParameter1Or … **customParameter20Or**	String	50	The original 20 x (50 character) free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation
customParameter1 … **customParameter20**	String	50	The 20 x (50 character) free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation with the non-Basic Latin characters replaced by a space character. These values will have been sent for payment processing.

Example

```
{
"result":"success",
"merchantId":111111,
"originalMerchantTxId":"abc123",
"originalTxId":123,
"amount":12.50,
"customerId":"mgn456",
"action":"CAPTURE",
"pan":"45ae201ghy23498FjMj701",
"brandId":3,
"paymentSolutionId":500,
"status":"SET_FOR_CAPTURE",
"resultId": "4fd9f223-bb1a-4879-a6e6-81a10b53bdca",
"processingTime": 948
}
```

2.3 Capture Response – Not Processed

Format: JSON

Parameter	Data Type	Field length	Comment
result	String	40	Will always be **failure**
resultId	String	40	Hexadecimal string that is to be used in any support request calls
additionalDetails	Array		Not used – will always be "**{}**" or not included
processingTime	Integer	6	The time in seconds for the process to complete
errors	String Array		List of errors
customParameter1Or … **customParameter20Or**	String	50	The original 20 x (50 character) free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation
customParameter1 … **customParameter20**	String	50	The 20 x (50 character) free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation with the non-Basic Latin characters replaced by a space character. These values will have been sent for payment processing.

Example

```
{
"result": "failure",
"resultId": "308802f2-224d-44f5-b256-8d9443a72770",
"additionalDetails": {},
"errors": [
{ "messageCode": "This field is required in [TOKEN]", "fieldName": "amount"
}
],
"processingTime": 173
}
```