

Action (Before)

This action occurs before a certain interaction is performed on a payment. It runs before both the `embedded.commerce.payments.performPaymentInteraction` and the `embedded.commerce.payments.action.after` actions. The main difference between these three actions is the methods each has access to and whether they occur before or after the payment interaction. The relevant payment interactions that this action responds to are:

- AuthAndCapture
- Authorize
- Capture
- Create
- Credit
- Decline
- RequestCheck
- Rollback
- Void

Action Type	Embedded
Full Action ID	embedded.commerce.payments.action.before
Runs multiple custom functions?	Yes

JavaScript File Structure

Action files share the following basic structure:

```
module.exports = function(context, callback) {  
  // Your custom code here  
  callback();  
};
```

When you code the custom function for an action, you have access to two arguments:

`callback` —This argument follows the established JavaScript callback pattern: it takes an error as the first argument (or null if there is no error) and a result as the second argument (if required).

`context` —This argument provides the function access to relevant objects and methods that interface with Kibo.

Context: Payment

The following methods and objects are available to this action through the use of the `context` argument.

Microservice Operation

This action corresponds to the microservice that performs payment actions.

Get Methods

- [get.payment](#)
- [get.paymentAction](#)

Exec Methods

- [exec.setActionAmount](#)
- [exec.setPaymentData](#)
- [exec.removePaymentData](#)
- [exec.setActionPreAuthFlag](#)
- [exec.setBillingInfo](#)

Context Objects Available to All Actions

- [apiContext](#)
- [configuration](#)

Get

get.payment

Returns the payment transaction.

Parameters	Type	Description
N/A	N/A	N/A

Example:

```
context.get.payment();
```

Response:

```
{
  "amountCollected": "decimal",
  "amountCredited": "decimal",
  "amountRequested": "decimal",
  "auditInfo": {
    "createBy": "string",
    "createDate": "DateTime",
    "updateBy": "string",
    "updateDate": "DateTime"
  },
  "availableActions": "string",
  "billingInfo": {
```

```
"auditInfo": {
  "createBy": "string",
  "createDate": "DateTime",
  "updateBy": "string",
  "updateDate": "DateTime"
},
"billingContact": {
  "address": {
    "address1": "string",
    "address2": "string",
    "address3": "string",
    "address4": "string",
    "addressType": "string",
    "cityOrTown": "string",
    "countryCode": "string",
    "isValidated": "bool",
    "postalOrZipCode": "string",
    "stateOrProvince": "string"
  },
  "companyOrOrganization": "string",
  "email": "string",
  "firstName": "string",
  "id": "int",
  "lastNameOrSurname": "string",
  "middleNameOrInitial": "string",
  "phoneNumbers": {
    "home": "string",
    "mobile": "string",
    "work": "string"
  }
},
"card": {
  "cardNumberPartOrMask": "string",
  "expireMonth": "short",
  "expireYear": "short",
  "isCardInfoSaved": "bool",
  "isUsedRecurring": "bool",
  "nameOnCard": "string",
  "paymentOrCardType": "string",
  "paymentServiceCardId": "string"
},
"isSameBillingShippingAddress": "bool",
"paymentType": "string",
"storeCreditCode": "string"
},
"changeMessages": [
  {
    "amount": "decimal",
    "appld": "string",
    "appKey": "string",
    "appName": "string",
    "correlationId": "string",
    "createDate": "DateTime",
    "id": "string",
    "identifier": "string",
    "message": "string",
    "metadata": "object",
    "newValue": "string",
    "oldValue": "string",
    "subject": "string"
  }
]
```

```

    subject : string ,
    "subjectType": "string",
    "success": "bool",
    "userFirstName": "string",
    "userId": "string",
    "userLastName": "string",
    "userScopeType": "string",
    "verb": "string"
  }
],
"id": "string",
"interactions": [
  {
    "amount": "decimal",
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "checkNumber": "string",
    "currencyCode": "string",
    "gatewayAuthCode": "string",
    "gatewayAVSCodes": "string",
    "gatewayCVV2Codes": "string",
    "gatewayInteractionId": "int",
    "gatewayResponseCode": "string",
    "gatewayResponseText": "string",
    "gatewayTransactionId": "string",
    "id": "string",
    "interactionDate": "DateTime",
    "interactionType": "string",
    "isManual": "bool",
    "isRecurring": "bool",
    "note": "string",
    "orderId": "string",
    "paymentEntryStatus": "string",
    "paymentId": "string",
    "paymentTransactionInteractionIdReference": "int",
    "status": "string"
  }
],
"isRecurring": "bool",
"orderId": "string",
"paymentServiceTransactionId": "string",
"paymentType": "string",
"status": "string"
}

```

For information about the properties in the response, refer to the [REST API Help](#).

get.paymentAction

Returns a primitive list of strings naming the available payment actions.

Parameters	Type	Description
N/A	N/A	N/A

Example:

```
context.get.paymentAction();
```

Response:

```
[
  {}
]
```

Exec

exec.setActionAmount

Set a requested payment amount for the transaction.

Parameters	Type	Description
amount	number	The requested amount you want to set for the payment.

Example:

```
context.exec.setActionAmount(37.00);
```

Response:

```
[
  {}
]
```

Returns a payment action. For information about the properties in the response, refer to the [REST API Help](#).

exec.setPaymentData

Set custom payment data (usually billing information associated with a billing service that might only send an auth token).

Parameters	Type	Description
key	string	Key used to identify the payment data.
value	object	Custom data originated by the billing service.

Example:

```
context.exec.setPaymentData("paypal",existingPayment.billingInfo.data.paypal);
```

Response:

```
{
  "amountCollected": "decimal",
  "amountCredited": "decimal",
  "amountRequested": "decimal",
  "auditInfo": {
    "createBy": "string",
    "createDate": "DateTime",
    "updateBy": "string",
    "updateDate": "DateTime"
  },
  "availableActions": "string",
  "billingInfo": {
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "billingContact": {
      "address": {
        "address1": "string",
        "address2": "string",
        "address3": "string",
        "address4": "string",
        "addressType": "string",
        "cityOrTown": "string",
        "countryCode": "string",
        "isValidated": "bool",
        "postalOrZipCode": "string",
        "stateOrProvince": "string"
      },
      "companyOrOrganization": "string",
      "email": "string",
      "firstName": "string",
      "id": "int",
      "lastNameOrSurname": "string",
      "middleNameOrInitial": "string",
      "phoneNumbers": {
        "home": "string",
        "mobile": "string",
        "work": "string"
      }
    },
    "card": {
      "cardNumberPartOrMask": "string",
      "expireMonth": "short",
      "expireYear": "short",
      "isCardInfoSaved": "bool",
      "isUsedRecurring": "bool",
      "nameOnCard": "string",
      "paymentOrCardType": "string",
      "paymentServiceCardId": "string"
    }
  }
}
```

```
    "isSameBillingShippingAddress": "bool",
    "paymentType": "string",
    "storeCreditCode": "string"
  },
  "changeMessages": [
    {
      "amount": "decimal",
      "appld": "string",
      "appKey": "string",
      "appName": "string",
      "correlationId": "string",
      "createDate": "DateTime",
      "id": "string",
      "identifier": "string",
      "message": "string",
      "metadata": "object",
      "newValue": "string",
      "oldValue": "string",
      "subject": "string",
      "subjectType": "string",
      "success": "bool",
      "userFirstName": "string",
      "userId": "string",
      "userLastName": "string",
      "userScopeType": "string",
      "verb": "string"
    }
  ],
  "id": "string",
  "interactions": [
    {
      "amount": "decimal",
      "auditInfo": {
        "createBy": "string",
        "createDate": "DateTime",
        "updateBy": "string",
        "updateDate": "DateTime"
      },
      "checkNumber": "string",
      "currencyCode": "string",
      "gatewayAuthCode": "string",
      "gatewayAVSCodes": "string",
      "gatewayCVV2Codes": "string",
      "gatewayInteractionId": "int",
      "gatewayResponseCode": "string",
      "gatewayResponseText": "string",
      "gatewayTransactionId": "string",
      "id": "string",
      "interactionDate": "DateTime",
      "interactionType": "string",
      "isManual": "bool",
      "isRecurring": "bool",
      "note": "string",
      "orderId": "string",
      "paymentEntryStatus": "string",
      "paymentId": "string",
      "paymentTransactionInteractionIdReference": "int",
      "status": "string"
    }
  ]
}
```

```
],
  "isRecurring": "bool",
  "orderId": "string",
  "paymentServiceTransactionId": "string",
  "paymentType": "string",
  "status": "string"
}
```

For information about the properties in the response, refer to the [REST API Help](#).

exec.removePaymentData

Remove custom payment data from a payment.

Parameters	Type	Description
key	string	Key used to identify the payment data.

Example:

```
context.exec.removePaymentData("paypal");
```

Response:

```
{
  "amountCollected": "decimal",
  "amountCredited": "decimal",
  "amountRequested": "decimal",
  "auditInfo": {
    "createBy": "string",
    "createDate": "DateTime",
    "updateBy": "string",
    "updateDate": "DateTime"
  },
  "availableActions": "string",
  "billingInfo": {
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "billingContact": {
      "address": {
        "address1": "string",
        "address2": "string",
        "address3": "string",
        "address4": "string",
        "addressType": "string",
        "cityOrTown": "string",
        "countryCode": "string",
        "isValidated": "bool",
        "postalOrZipCode": "string",
        "stateOrProvince": "string"
      }
    }
  }
}
```



```
    },
    "companyOrOrganization": "string",
    "email": "string",
    "firstName": "string",
    "id": "int",
    "lastNameOrSurname": "string",
    "middleNameOrInitial": "string",
    "phoneNumbers": {
      "home": "string",
      "mobile": "string",
      "work": "string"
    }
  },
  "card": {
    "cardNumberPartOrMask": "string",
    "expireMonth": "short",
    "expireYear": "short",
    "isCardInfoSaved": "bool",
    "isUsedRecurring": "bool",
    "nameOnCard": "string",
    "paymentOrCardType": "string",
    "paymentServiceCardId": "string"
  },
  "isSameBillingShippingAddress": "bool",
  "paymentType": "string",
  "storeCreditCode": "string"
},
"changeMessages": [
  {
    "amount": "decimal",
    "appld": "string",
    "appKey": "string",
    "appName": "string",
    "correlationId": "string",
    "createDate": "DateTime",
    "id": "string",
    "identifier": "string",
    "message": "string",
    "metadata": "object",
    "newValue": "string",
    "oldValue": "string",
    "subject": "string",
    "subjectType": "string",
    "success": "bool",
    "userFirstName": "string",
    "userId": "string",
    "userLastName": "string",
    "userScopeType": "string",
    "verb": "string"
  }
],
"id": "string",
"interactions": [
  {
    "amount": "decimal",
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    }
  }
]
```

```

    },
    "checkNumber": "string",
    "currencyCode": "string",
    "gatewayAuthCode": "string",
    "gatewayAVSCodes": "string",
    "gatewayCVV2Codes": "string",
    "gatewayInteractionId": "int",
    "gatewayResponseCode": "string",
    "gatewayResponseText": "string",
    "gatewayTransactionId": "string",
    "id": "string",
    "interactionDate": "DateTime",
    "interactionType": "string",
    "isManual": "bool",
    "isRecurring": "bool",
    "note": "string",
    "orderId": "string",
    "paymentEntryStatus": "string",
    "paymentId": "string",
    "paymentTransactionInteractionIdReference": "int",
    "status": "string"
  }
],
"isRecurring": "bool",
"orderId": "string",
"paymentServiceTransactionId": "string",
"paymentType": "string",
"status": "string"
}

```

For information about the properties in the response, refer to the [REST API Help](#).

exec.setActionPreAuthFlag

Enable pre-authorization for an order payment. Pre-authorization authorizes a small dollar amount (e.g. \$1) in order to check the authorization response for errors (incorrect CVV, etc.) before the full amount is authorized. This feature provides a cleaner method for authorizing large-value orders.

To enable this feature, contact your Kibo representative. At this moment, Cybersource is the only payment gateway that supports this feature.

Parameters	Type	Description
isPreAuth	Boolean	Enables pre-authorization when true.

Example:

```
context.exec.setActionPreAuthFlag(true);
```

Response:

```
{
  "amountCollected": "decimal",
```

```
"amountCredited": "decimal",
"amountRequested": "decimal",
"auditInfo": {
  "createBy": "string",
  "createDate": "DateTime",
  "updateBy": "string",
  "updateDate": "DateTime"
},
"availableActions": "string",
"billingInfo": {
  "auditInfo": {
    "createBy": "string",
    "createDate": "DateTime",
    "updateBy": "string",
    "updateDate": "DateTime"
  },
  "billingContact": {
    "address": {
      "address1": "string",
      "address2": "string",
      "address3": "string",
      "address4": "string",
      "addressType": "string",
      "cityOrTown": "string",
      "countryCode": "string",
      "isValidated": "bool",
      "postalOrZipCode": "string",
      "stateOrProvince": "string"
    },
    "companyOrOrganization": "string",
    "email": "string",
    "firstName": "string",
    "id": "int",
    "lastNameOrSurname": "string",
    "middleNameOrInitial": "string",
    "phoneNumbers": {
      "home": "string",
      "mobile": "string",
      "work": "string"
    }
  },
  "card": {
    "cardNumberPartOrMask": "string",
    "expireMonth": "short",
    "expireYear": "short",
    "isCardInfoSaved": "bool",
    "isUsedRecurring": "bool",
    "nameOnCard": "string",
    "paymentOrCardType": "string",
    "paymentServiceCardId": "string"
  },
  "isSameBillingShippingAddress": "bool",
  "paymentType": "string",
  "storeCreditCode": "string"
},
"changeMessages": [
  {
    "amount": "decimal",
    "appld": "string",
    "appKey": "string"
```

```

    appKey : string ,
    "appName": "string",
    "correlationId": "string",
    "createDate": "DateTime",
    "id": "string",
    "identifier": "string",
    "message": "string",
    "metadata": "object",
    "newValue": "string",
    "oldValue": "string",
    "subject": "string",
    "subjectType": "string",
    "success": "bool",
    "userFirstName": "string",
    "userId": "string",
    "userLastName": "string",
    "userScopeType": "string",
    "verb": "string"
  }
],
"id": "string",
"interactions": [
  {
    "amount": "decimal",
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "checkNumber": "string",
    "currencyCode": "string",
    "gatewayAuthCode": "string",
    "gatewayAVSCodes": "string",
    "gatewayCVV2Codes": "string",
    "gatewayInteractionId": "int",
    "gatewayResponseCode": "string",
    "gatewayResponseText": "string",
    "gatewayTransactionId": "string",
    "id": "string",
    "interactionDate": "DateTime",
    "interactionType": "string",
    "isManual": "bool",
    "isRecurring": "bool",
    "note": "string",
    "orderId": "string",
    "paymentEntryStatus": "string",
    "paymentId": "string",
    "paymentTransactionInteractionIdReference": "int",
    "status": "string"
  }
],
"isRecurring": "bool",
"orderId": "string",
"paymentServiceTransactionId": "string",
"paymentType": "string",
"status": "string"
}

```

For information about the properties in the response, refer to the [REST API Help](#).

exec.setBillingInfo

Set the billing info object for a payment.

Parameters	Type	Description
billingInfo	object	The <code>billingInfo</code> object for the payment resource.

Example:

```
context.exec.setBillingInfo(billingInfo);
```

Response:

```
{
  "amountCollected": "decimal",
  "amountCredited": "decimal",
  "amountRequested": "decimal",
  "auditInfo": {
    "createBy": "string",
    "createDate": "DateTime",
    "updateBy": "string",
    "updateDate": "DateTime"
  },
  "availableActions": "string",
  "billingInfo": {
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "billingContact": {
      "address": {
        "address1": "string",
        "address2": "string",
        "address3": "string",
        "address4": "string",
        "addressType": "string",
        "cityOrTown": "string",
        "countryCode": "string",
        "isValidated": "bool",
        "postalOrZipCode": "string",
        "stateOrProvince": "string"
      },
      "companyOrOrganization": "string",
      "email": "string",
      "firstName": "string",
      "id": "int",
      "lastNameOrSurname": "string",
      "middleNameOrInitial": "string",
      "phoneNumbers": {
        "home": "string",
        "mobile": "string",

```

```

    "work": "string"
  }
},
"card": {
  "cardNumberPartOrMask": "string",
  "expireMonth": "short",
  "expireYear": "short",
  "isCardInfoSaved": "bool",
  "isUsedRecurring": "bool",
  "nameOnCard": "string",
  "paymentOrCardType": "string",
  "paymentServiceCardId": "string"
},
"isSameBillingShippingAddress": "bool",
"paymentType": "string",
"storeCreditCode": "string"
},
"changeMessages": [
  {
    "amount": "decimal",
    "appld": "string",
    "appKey": "string",
    "appName": "string",
    "correlationId": "string",
    "createDate": "DateTime",
    "id": "string",
    "identifier": "string",
    "message": "string",
    "metadata": "object",
    "newValue": "string",
    "oldValue": "string",
    "subject": "string",
    "subjectType": "string",
    "success": "bool",
    "userFirstName": "string",
    "userId": "string",
    "userLastName": "string",
    "userScopeType": "string",
    "verb": "string"
  }
],
"id": "string",
"interactions": [
  {
    "amount": "decimal",
    "auditInfo": {
      "createBy": "string",
      "createDate": "DateTime",
      "updateBy": "string",
      "updateDate": "DateTime"
    },
    "checkNumber": "string",
    "currencyCode": "string",
    "gatewayAuthCode": "string",
    "gatewayAVSCodes": "string",
    "gatewayCVV2Codes": "string",
    "gatewayInteractionId": "int",
    "gatewayResponseCode": "string",
    "gatewayResponseText": "string",
    "gatewayTransactionId": "string"
  }
]

```

```

    "gatewayTransactionId": "string",
    "id": "string",
    "interactionDate": "DateTime",
    "interactionType": "string",
    "isManual": "bool",
    "isRecurring": "bool",
    "note": "string",
    "orderId": "string",
    "paymentEntryStatus": "string",
    "paymentId": "string",
    "paymentTransactionInteractionIdReference": "int",
    "status": "string"
  }
],
"isRecurring": "bool",
"orderId": "string",
"paymentServiceTransactionId": "string",
"paymentType": "string",
"status": "string"
}

```

For information about the properties in the response, refer to the [REST API Help](#).

Context Objects Available to All Actions

apiContext

Accesses tenant information.

Properties	Type	Description
baseUrl	string	The base URL for the site.
basePciUrl	string	The base PCI URL for the site.
tenantPod	string	The name of the tenant pod in which the tenant resides.
appClaims	string	The application claims token.
appKey	string	The application key.
tenantId	integer	Unique identifier for the tenant.
siteId	integer	Unique identifier for the site. This ID is used at all levels of a store, catalog, and tenant to associate objects to a site.
masterCatalogId	integer	Unique identifier for the master catalog.
catalogId	integer	The unique identifier for the product catalog. Catalogs are part of a master catalog.
currencyCode	string	The default three-letter ISO currency code for monetary amounts.

Properties	Type	Description
previewDate	date/time	The date and time that the content is being viewed. This might be a future date if the content is previewed with an active date range set in the future.
localeCode	string	The locale code per the country code provided. This code determines the localized content to use and display.
correlationId	string	The unique identifier of the API request associated with the event action, which might contain multiple actions.
isAuthorizedAsAdmin	Boolean	Indicates whether the Dev Account user is authorized as an admin.
userClaims	string	The user claims token.

Example:

```
context.apiContext.baseUrl;
```

configuration

Receives a JSON response that contains information about the configuration data set in the Action Management JSON editor.

Properties	Type	Description
Varies	object	Custom fields and values that you can set in the Action Management JSON Editor.

Example:

```
context.configuration.customData;
```