



**Rabobank**

# Rabo OmniKassa 2.0 API

*Developer's manual versie 1.5 UK*

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## **1. Introduction**

This document describes how a webshop can be connected to the Rabo OmniKassa. In this document Rabo OmniKassa will be abbreviated as ROK, but this abbreviation may not be used in communication or documentation of the plugin to webshops.

### **1.1. Overview**

The payment interface consists of 3 calls from the web shop to Rabo OmniKassa (ROK) and 1 call from ROK to the web store.

The payment of an order at ROK consists of the following steps:

1. The web store requests an Access Token on ROK (Refresh call)
2. The web store uses the Access Token to announce an order (Order announce call)
3. The webshop leads the consumer to ROK
4. The consumer executes the payment using ROK
5. The consumer is guided back to the web store
6. ROK sends the web shop a message to indicate that an order status update is available (Notification call)
7. The webshop asks ROK the latest order statuses (Status pull call)

De calls are:

- Refresh
- Order announce
- Notification
- Status pull

In the calls tokens are used, these are JSON Web Tokens. It is not necessary for the webshop to be able to create or parse these tokens, all tokens are provided by Rabobank and ROK.

### **1.2. Example and formats**

The examples contain many long texts, such as tokens, signatures and URLs. To keep the text readable, these are provided with (extra) end-of-lines. Extra end-of-lines must not be placed in the messages themselves and will not be included in the actual messages either.

## 2. Call: refresh

To be able to communicate with ROK in a safe manner, the webshop uses an **access token**. An access token has a limited validity (a number of hours). If the webshop no longer has a valid **access token**, then the online store must use its **refresh token** to retrieve a new access token. This access token can then be used for the next order announce calls. The webshop must keep track of how long an access token is valid, and when a new access token has to be retrieved.

The web store must cache the access token as long as it is still valid. It is not the intention that a new access token is collected for every payment if this is not necessary.

### Request

#### Call

The call is an HTTPS GET request without body.

#### URL

Sandbox environment: *<https://betalen.rabobank.nl/omnikassa-api-sandbox/gatekeeper/refresh>*

Production environment: *<https://betalen.rabobank.nl/omnikassa-api/gatekeeper/refresh>*

#### Headers

The entry requires at least the entry:

Authorization: Bearer <refresh-token>

Where <refresh-token> is replaced by the refresh token as it can be copied from the Rabobank Dashboard.

#### Example

Authorization: Bearer  
eyJraWQiOiIrcUNTdzlvL2dGcUMxeVlHWVhHZFBReGFVVTVLYlpyYWVZCjNiOHFrYWxvPSIsImFsZyI6IktVMjU2In0.eyJta2lkIjozMDI0LCJleHAiOjE0OTExNDU3MjN9.MEYCIQDyt1p3lA3zTyl\_s8nQuLwBburgWlw3pIrFk4FDyRXebAIhALnCHKUwc8lRA7DAv\_IF8uOtbVcIzJVUc447I14KVe04

### Response

Example response:

```
{
  "token":
  "eyJraWQiOiJHS0wiLCJhbGciOiJFUzI1NiJ9.eyJwayMiOjEwMjQsImNpZCI6ImNjYTUt"
```

```
NmRjYyIsImV4cCI6MTQ4MDAwNjQ5MX0.MEQCIGZoLp7HvBS6SbHVfwCICQz_jvF-  
abvbET2HsENcAKG_AiAYlI8WouBYyRvkbJHamR_PBL36P1b2fCy2H5mZNQtS9Q",  
  "validUntil": "2016-11-24T16:54:51.216+0000",  
  "durationInMillis": 28800000  
}
```

The content of the token field is the access token.

### 3. Call: Order announce

An order is announced at ROK by an order announcement. This contains the details of the order. The result of this is a redirect URL where the browser of the consumer has to be sent.

## Request

Call

The call is an HTTPS POST request with a JSON body.

## URL

Sandbox environment: <https://betalen.rabobank.nl/omnikassa-api-sandbox/order/server/api/order>

Production environment: <https://betalen.rabobank.nl/omnikassa-api/order/server/api/order>

## Headers

A minimum of two entries are required in the header:

```
Content-Type: application/json
Authorization: Bearer <access-token>
```

Where <access-token> is replaced by the access token recovered in the Refresh call.

Example:

Authorization: Bearer  
eyJraWQiOiJHS0wiLCJhbGciOiJIUzU1NiJ9.eyJwayMiOiJUMiwiY2lkIjoieYzhjYy1mMThjIiwiaXNwIjojNDc5MTIyODc2fQ.MEUCIQC2Z5WUVTAKcBHISsOVMJIJE8PAbVe5xlio  
r4bqrTcqCwIqLNoVIWEmSbQekJTccM89sosAY-8JzN47DGjvdPGdF0w

## Body

The details of the order are placed in the body as a JSON message. Not as a key value pair but as bare content of the body. The following fields are supported:

## JSON structuur

Field	Number	Format	Explanation and remarks	Example
-------	--------	--------	-------------------------	---------

timestamp	1	DT	<p>ISO 8601 standard Date / time on which the order is announced at ROK. As a rule, this is the current date / time.</p> <p>This field is mandatory and provides protection against so-called replay (playback) attacks</p>	2017-02-06T08:32:51.759+01:00
merchantOrderId	1	AN..max 10	Generated by Merchant. If your webshop wants to use AfterPay, this field must be unique.	order123
description	0..1	AN..max 35	Description of the order	A nice blue beach ball.
orderItems	0..1	Array van OrderItems	The orderlines, see below for more details.	
amount	1	Money	<p>The total order amount in cents, including VAT.</p> <p>The amount must be equal to the sum over all order items of the piece price (including VAT) multiplied by the number of copies.</p> <p>As a result of the way in which the VAT is calculated, due to rounding differences it can occur that these are not the same. We therefore recommend to base the total VAT amount on the VAT of the piece price instead of the total order amount excluding VAT. See example</p> <p><b>Note:</b> If the amount is not equal to the sum of the amounts of the order items then</p> <ol style="list-style-type: none"> <li>1. the order items from the order announcement are filtered, and</li> <li>2. AfterPay is not possible as a payment method</li> </ol>	<p>Suppose that the piece price of an order item (excluding VAT) is € 12.98 and a VAT rate of 21% is applied. When a consumer orders 7 copies, the piece price including VAT € <math>12.98 + 21\% = € 15.71</math> is rounded off. The total order amount (including VAT) that is given in this field is then <math>7 \times € 15.71 = € 109.97</math></p>



shippingDetail	0..1	Address	The shippingaddress, see below for more details.	
billingDetail	0..1	Address	The billingaddress, see below for more details..	
customerInformation	0..1	CustomerInformation	The customer details, see below for more details.	
language	0..1	AN..2	ISO 639-1 standard. Not Case sensitive	NL
merchantReturn URL	1	AN..max 1024	The URL to which the consumer's browser will be sent after the payment.	<a href="https://mijn.webwinkel/betalingsresultaat">https://mijn.webwinkel/betalingsresultaat</a>
paymentBrand	0..1	AN..50	<p>This field is optional and is used to enforce a specific payment method with the consumer instead of the consumer selecting a payment method on the payment method selection page.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• IDEAL</li> <li>• AFTERPAY</li> <li>• PAYPAL</li> <li>• MASTERCARD</li> <li>• VISA</li> <li>• BANCONTACT</li> <li>• MAESTRO</li> <li>• V_PAY</li> <li>• CARDS</li> </ul> <p>The CARDS value ensures that the consumer can choose between payment methods: MASTERCARD, VISA, BANCONTACT, MAESTRO and V_PAY</p>	IDEAL

paymentBrandForce	0..1	AN..50	<p>This field should only be delivered if the paymentBrand field (see above) is also specified. This field can be used to send or, after a failed payment, the consumer can or can not select another payment method to still pay the payment.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• FORCE_ONCE</li> <li>• FORCE_ALWAYS</li> </ul> <p>In the case of FORCE_ONCE, the indicated paymentBrand is only enforced on the first transaction. If this fails, the consumer can still choose another payment method. When FORCE_ALWAYS is chosen, the consumer can not choose another payment method.</p>	FORCE_ONCE
signature	1	AN..128	Signature on the message, see heading Signature for more details.	1795e71284f9e3e5805fe43964259f28810cd5047a726a5aaa48043eac69e8728ce23e97032f4a0844b0509dbe9f247a2c99f06017fdb7b85b06710a1c666a

### OrderItems

Field	Number	Format	Explanation and remarks	Example
id	0..1	AN..max 25	Item id	A1000
name	1	AN..max 50	Item name	Jackie O Round Sunglasses
description	0..1	AN..max 100	Item description	These distinct, feminine frames balance a classic Jackie-O styling with a modern look.

quantity	1	N	number: 1-2147483647	1
amount	1	Money	The amount in cents, including VAT, of the item each, see below for more details.	If the piece price of an order item (excluding VAT) is € 12.98 and a VAT rate of 21% is applied. The piece price including VAT € 12.98 + 21% = € 15.71
tax	0..1	Money	The VAT of the item each, see below for more details.	
category	1	AN..max 8	Product category: PHYSICAL or DIGITAL	PHYSICAL
vatCategory	0..1	N	The VAT category of the product. The values refer to the different rates that are used in the Netherlands: 1 = High (currently 21%), 2 = Low (currently 6%), 3 = Zero (0%), 4 = None (exempt from VAT)	1

### Money

Field	Number	Format	Explanation and remarks	Example
amount	1	N	The amount in cents	1000
currency	1	AN..max	The currency. ROK currently only supports EUR	EUR

### Address

Field	Number	Format	Explanation and remarks	Example
firstName	0..1	AN..max 50	First name	Jan
middleName	0..1	AN..max 20	Insert or second name	van
lastName	1	AN..max 50	Surname	Jansen

street	1	AN..max 100	Street.  <b>Note:</b> In case of payment via <b>Visa, Mastercard, V PAY, Bancontact</b> and <b>Maestro</b> the street name will be truncated to 50 characters.	Beukenlaan
houseNumber	0..1	AN..max 100	House number.  <b>Note:</b> In case of payment via <b>Visa, Mastercard, V PAY, Bancontact</b> and <b>Maestro</b> the houseNumber concatenated with houseNumberAddition (see below) will be truncated to 10 characters.	12
houseNumberAddition	0..1	AN..max 6	House number additions	a
postalCode	1	AN..max 10	Postal code	1234AA
city	1	AN..max 40	City	Amsterdam
countryCode	1	A..2	Country code, ISO 3166-1 alpha-2	NL

### CustomerInformation

Field	Number	Format	Explanation and remarks	Example
emailAddress	0..1	AN..max 45	The e-mailaddress of the consumer	jan@example.org
dateOfBirth	0..1	DD-MM-YYYY	The date of birth of the consumer	21-11-1977
gender	0..1	M/F	The gender of the consumer	F
initials	0..1	A..max 256	The initials of the consumer	J.A.N.
telephoneNumber	0..1	AN..max 31	The consumer's telephone number	+31204971111

An example of a minimal JSON message:

```
{
  "timestamp": "2017-02-06T08:32:51.759+01:00",
  "merchantOrderId": "order123",
  "amount": {
    "amount": "4999",
    "currency": "EUR"
  },
  "merchantReturnURL": "http://www.example.org",
  "signature":
  "1795e71284f9e3e5805fe43964259f28810cd5047a726a5aaa48043eac69e87e28ce2
  3e97032f4a08444b0509dbe9f247a2c99f06017fdb7b85b06710alc666a"
}
```

An example of a complete message:

```
{
  "timestamp": "2017-09-11T14:54:57+02:00",
  "merchantOrderId": "order123",
  "description": "Aankoop mijn webwinkel ordernummer 123",
  "orderItems": [
    {
      "id": "A1000",
      "name": "Jackie O Round Sunglasses",
      "description": "These distinct, feminine frames balance a
      classic Jackie-O styling with a modern look.",
      "quantity": 1,
      "amount": {
        "currency": "EUR",
        "amount": 22500
      },
      "tax": {
        "currency": "EUR",
        "amount": 4725
      },
      "category": "PHYSICAL",
      "vatCategory": "1"
    }
  ],
  "amount": {
    "currency": "EUR",
    "amount": 22500
  },
  "shippingDetail": {
    "firstName": "Jan",
    "middleName": "van",
    "lastName": "Jansen",
    "street": "Beukenlaan",
    "houseNumber": "12",
    "houseNumberAddition": "a",
    "postalCode": "1234AA",
    "city": "Amsterdam",
    "countryCode": "NL"
  }
}
```

```

    },
    "billingDetail": {
      "firstName": "Jan",
      "middleName": "van",
      "lastName": "Jansen",
      "street": "Kersenstraat",
      "houseNumber": "385",
      "houseNumberAddition": "b",
      "postalCode": "1234BB",
      "city": "Haarlem",
      "countryCode": "NL"
    },
    "customerInformation": {
      "emailAddress": "jan@example.org",
      "dateOfBirth": "21-11-1977",
      "gender": "M",
      "initials": "J.A.N.",
      "telephoneNumber": "+31204971111"
    },
    "language": "nl",
    "merchantReturnURL": "https://mijn.webwinkel.nl/betalingsresultaat",
    "paymentBrand": "IDEAL",
    "paymentBrandForce": "FORCE_ONCE",
    "signature":
      "1a0f6e4526fb81d5bf70fe2a9d7a3c46a2a1e85993b5df08cd2a7ff5324d48da6a12fb38a38ccb4c4d44b9901f7f3a5b5fe6aec475db6fe24c57fcc4f2d6eff2"
  }
}

```

## Signature

The signature is the result of applying HMAC-SHA512 (initialized with the signing key) on the message.

The signing key can be copied from the Rabobank Dashboard. This is a shared secret between Rabobank and the web store. This allows Rabobank to check that it is the web store that sends the message. The key is delivered in base64 encoded form. When initializing the HMAC-SHA512, it must first be decoded base64.

## Input

The signature is calculated on the following fields, in the same order as indicated, of the JSON object:

1. timestamp
2. merchantOrderId,
3. amount currency
4. amount amount
5. language\*\*
6. description\*\*
7. merchantReturnURL
8. (order items)\*
9. (shipping detail)\*
10. (paymentBrand)\*
11. (paymentBrandForce)\*

12. (customerInformation)\*
13. (billing detail)\*

The contents of these fields are separated by a comma. If a field is not present, the content is considered empty.

The (..) \* fields are optional, if they are not there they are not added (also not considered empty).

The \*\* fields are optional, but are always used as part of the signature. If they have not been given, an empty value is used as part input for the signature.

### *Order Items*

The fields of the order items are added in the following order:

1. (id)\*
2. name
3. description
4. quantity
5. amount currency
6. amount amount
7. (tax velden) \*\*
8. category
9. (vatCategory)\*

The fields are combined together in the same way as with the order. If a field is not present, the content is considered empty. The (..) \* fields are optional, if they are not there they are not added (also not considered empty). \*\* tax is an optional field, if it is not present, it is considered as a single empty field. If it is present, the amount and currency are added as two separate fields.

### *Shipping & billing details*

The fields of the shipping and billing details are added in the following order:

1. firstName
2. middleName
3. lastName
4. street
5. (houseNumber)\*
6. (houseNumberAddition)\*
7. postalCode
8. city
9. countryCode

The fields are combined together in the same way as with the order. If a field is not present, the content is considered empty.

The (..) \* fields are optional, if they are not there they are not added (also not considered empty).

### *Customer information*

The fields of the customer information are added in the following order:

1. emailAddress\*\*
2. dateOfBirth\*\*
3. gender\*\*
4. initials\*\*
5. telephoneNumber\*\*

The \*\* fields are optional, but are always used as part of the signature. If they have not been given, an empty value is used as part input for the signature.

### *Examples*

The combined signature fields of the minimal sample message are:

```
2017-02-
06T08:32:51.759+01:00,order123,EUR,4999,,,http://www.example.org
```

The combined signature fields of the full sample message are:

```
2017-09-11T16:28:07+02:00,order123,EUR,22500,nl,Aankoop mijn webwinkel
ordernummer
123,https://mijn.webwinkel.nl/betalingsresultaat,A1000,Jackie O Round
Sunglasses,These distinct, feminine frames balance a classic Jackie-O
styling with a modern
look.,1,EUR,22500,EUR,4725,PHYSICAL,1,Jan,van,Jansen,Beukenlaan,12,a,1
234AA,Amsterdam,NL,IDEAL,FORCE_ONCE,jan@example.org,21-11-
1977,M,J.A.N.,+31204971111,Jan,van,Jansen,Kersenstraat,385,b,1234BB,Ha
arlem,NL
```

### Calculation

To arrive at the signature an HMAC-SHA512 calculation is performed. The HMAC-SHA512 is initialized with the signing key from the dashboard. Note that this signing key is supplied in base64 encoded form and therefore base64 must be decoded first. Subsequently, the byte representation of the string of the stitched signature fields (based on UTF-8 encoding) is presented to the HMAC-SHA512 to arrive at the signature. The hexadecimal representation in lower case letters of this signature is finally included in the message.

### Example



## PHP

```
$signatureFields = '2017-02-06T08:32:51.759+01:00,order123,EUR,4999,,,http://www.example.org';  
$signingKey = '<signing key uit Rabobank Dashboard>';  
$signingKeyDecoded = base64_decode($signingKey);
```

```
$signature = hash_hmac('sha512', $signatureFields,  
$signingKeyDecoded);
```

## Java

```
String signatureFields = "2017-02-06T08:32:51.759+01:00,order123,EUR,4999,,,http://www.example.org";  
String signingKey = "<signing key uit Rabobank Dashboard>";  
byte[] signingKeyDecoded = Base64.getDecoder().decode(signingKey);
```

```
Mac macAlgorithm = Mac.getInstance("HmacSHA512");  
Key secretKey = new SecretKeySpec(signingKeyDecoded , "HmacSHA512");  
macAlgorithm.init(secretKey);
```

```
byte[] result = macAlgorithm.doFinal(signatureFields.getBytes(UTF_8));  
String signature = Hex.encodeHexString(result);
```

## Response

The answer is a JSON object containing the redirect URL and a signature.

Example response:

```
{  
  "signature":  
    "d3dd97b48752f3d4d4c5a914bf9e935956546887c7c8fd020a0702cd4462fbd8c60d2  
b7b0e0c4fc160005c71a1f7c504ef7ca8bbfb82cf0a6564b1bfeb0a4f7f",  
  "redirectUrl": "https://betalen.rabobank.nl/omnikassa-api/payment-  
brand?token=eyJraWQiOiJFTU8iLCJhbGciOiJFUzI1NiJ9.eyJlbW8iOiJhYWZhMDAxM  
y1lYmNiLTQ1ZjQtYTRmYi01OGNjMmQ5MDM2MDIiLCJjaWQiOiIxOTQwLTBkNTgiLCJleHA  
iOiJEO0DAXNTA0Mjd9.MEQCIHJLZjlcNYShX7YzVFvghfwmvH7WTV2Lj5IQIejFyjH7AiBK  
mvahL29DgiA5vMhGLOHoHaT3SjQKGR4RVxJetG7Fdw&lang=nl"  
}
```

The signature is calculated in the same way as the signature of the request, but in this case there is only one field: redirectUrl.

## Consumer returns to the webshop

When the consumer returns to the webshop, URL parameters are added to say something about the status of the order. Unfortunately, the final status of an order is not known in all cases, for example with an iDEAL payment it may take a while before the status is final.

The URL parameters are:

URL Parameter	Meaning	Example
---------------	---------	---------

order_id	The "merchantOrderId" as used in the Order announce.	order123
status	The status of the order, see below for more details.	COMPLETED
signature	The signature of the data in the URL.	14bf9e935956546887c7c8fd020a0702cd4462d3dd97b48752f3d4d4c5a9cf0afbd8c60d2b7b0e0c46564b1bfeb0a4f7ffc160005c71a1f7c504ef7ca8bbfb82

### Statuses

#### **COMPLETED**

The payment was successful.

#### **EXPIRED**

The consumer has not paid within the stipulated period.

#### **IN\_PROGRESS**

The payment has not yet been completed. This can occur as a result of a breakdown or delay in the hinterland of payment processing. This is a possible outcome of an iDEAL or credit card payment.

#### **CANCELLED**

The consumer chose not to pay.

### Signature

The signature is calculated in the same way as other signatures. In this case, the two fields (in order: order\_id, status) are used as input.

## 4. Call: Notification

A notification is a message from ROK to the web shop to announce that at least one order has reached a definitive status. The notification is an invitation to the webshop to retrieve the statuses of these orders (status pull call). The webshop is free to do this immediately (even before an answer has been given to the notification) or at a later time. The notification contains a token that must be used in the status pull call, and this token has a limited validity (minutes). If the webshop does not make a status update call, ROK will send a new notification later. However, ROK will give up after a number of hours until the next order is processed.

The notification is signed by ROK so that the webshop can check its integrity. Analogous to the other messages, the signature is calculated using the signing key as configured for the web store.

If several signing keys are active for the web shop at ROK, ROK will send a notification to the web store separately for each key. ROK does not know which of these signing keys is configured within the webshop. The web store can carry out a successful verification of the signature from exactly one notification. The authentication of this notification can be used by the webshop for the status pull call. ROK will sign the statuses of these orders with the same signing key.

### Request

The call is an HTTPS POST with the relevant information in the body as a JSON object.

### URL

ROK sends the notification message to the webhook URL as specified in the Rabobank Dashboard.

### Headers

The header contains at least the entry:

Content-Type: application/json

### Body

The body of the notification is a JSON object containing the following fields:

Field	Meaning	Example
-------	---------	---------

authentication	The token that can be used to do the status pull	eyJraWQiOiJOTyIsImFsZyI6IkdVTMjU2In0.eyJub3RhdHVzLmNoYW5nZWQiLCJjaWQiOiJhYmNkLTEyMzQiLCJleHAiOiE0ODg0NjQ1MDN9.MEUCIHtPFoKmA7JNQjj0U5rWpl0zR9RsQvgj_n-ckHBngHAiEAmbtgrxa4cS3BTHd0DJ8md3Rn7V13Nv35m5DurY1wI
expiry	The validity period of the token, in the ISO-8601 format (yyyy-MM-ddTHH: mm: ss.SSSZZ)	2016-11-25T09:53:46.765+01:00
eventName	The type of notification. For the time being this is always:merchant.order.status.changed	merchant.order.status.changed
poiId	Identification of the webshop (point of interaction), seen from ROK. This is relevant if several webshops use the same webhook URL.	123
signature	The signature of the message, see heading signature for details.	

### Signature

The signature on the notification message is calculated in the same way as the other signatures. The fields used are in order:

- authentication
- expiry
- eventName
- poiId

For the example, the signature is determined based on the following string:

```
eyJraWQiOiJOTyIsImFsZyI6IkdVTMjU2In0.eyJub3RhdHVzLmNoYW5nZWQiLCJjaWQiOiJhYmNkLTEyMzQiLCJleHAiOiE0ODg0NjQ1MDN9.MEUCIHtPFoKmA7JNQjj0U5rWpl0zR9RsQvgj_n-ckHBngHAiEAmbtgrxa4cS3BTHd0DJ8md3Rn7V13Nv35m5DurY1wI,2016-11-25T09:53:46.765+01:00,merchant.order.status.changed,123
```

### **Response**

ROK does not expect a response to this message and has set a short time-out for its request. It is therefore possible that the connection is already broken when a response is sent.

The reason for this is that it is often useful to immediately make the status pull call before a response is sent.

## 5. Call: Status pull

With this call, the web store retrieves final statuses from orders.

### Request

#### Call

The call is an HTTPS GET with empty body.

#### URL

Sandbox environment: *<https://betalen.rabobank.nl/omnikassa-api-sandbox/order/server/api/events/results/merchant.order.status.changed>*

Production environment: *<https://betalen.rabobank.nl/omnikassa-api/order/server/api/events/results/merchant.order.status.changed>*

#### Headers

The entry requires at least the entry:

Authorization: Bearer <notification-token>

The <notification-token> is the field "authentication" from the notification.

### Response

The response body contains a JSON object with the following fields:

Field	Meaning	Example
moreOrderResultsAvailable	Indication if there are more order results available than in this message. In that case, a status pull call can be made (with the same notification token). This can be repeated until the result is false.	true
orderResults	An array containing the results per order	See heading OrderResults for details

signature	The signature of the message, see heading signature for details.	99ca2487243fbad72bbaa456a3219db7b0d2a19777f436cedb3c045e999b86c05001bb0837b43caa3d1757321d00959ac2a161f473a103af72bf440db5147b4a
-----------	--	--

#### orderResults velden

Fields	Meaning	Example
merchantOrderId	OrderId as delivered during the Order Announce	order123
omnikassaOrderId	The unique id that the omnikassa has assigned to this order	1d0a95f4-2589-439b-9562-c50aa19f9caf
poiId	Unique identification of the webshop (point of interaction), seen from ROK. This is relevant if several webshops use the same webhook URL.	2004
orderStatus	The status of the order. See chapter "Consumer returns at the webshop" for an overview of the possible statuses.	CANCELLED
orderStatusDateTime	The moment this status is reached.	2016-11-25T13:20:03.157+01:00
errorCode	Future field, for now: always empty	
paidAmount currency	The currency in which payment is made	EUR
paidAmount amount	The amount paid by the consumer	0
totalAmount currency	The currency of the order	EUR
totalAmount amount	The total amount of the order, in cents	4999

#### Example response

```
{
  "signature":
    "99ca2487243fbad72bbaa456a3219db7b0d2a19777f436cedb3c045e999b86c05001bb0837b43caa3d1757321d00959ac2a161f473a103af72bf440db5147b4a",
  "moreOrderResultsAvailable": false,
  "orderResults": [
```

```

{
  "merchantOrderId": "order123",
  "omnikassaOrderId": "1d0a95f4-2589-439b-9562-c50aa19f9caf",
  "poiId": "2004",
  "orderStatus": "CANCELLED",
  "orderStatusDateTime": "2016-11-25T13:20:03.157+01:00",
  "errorCode": "",
  "paidAmount": {
    "currency": "EUR",
    "amount": "0"
  },
  "totalAmount": {
    "currency": "EUR",
    "amount": "4999"
  }
}
]
}

```

### Signature

The signature on the result is calculated in the same way as the other signatures. The fields used are in order:

- moreOrderResultsAvailable
- De orderResults

For every orderResult the following fields are used in order:

- merchantOrderId
- omnikassaOrderId
- poiId
- orderStatus
- orderStatusDateTime
- errorCode
- paidAmount currency
- paidAmount amount
- totalAmount currency
- totalAmount amount

For the example, the signature is determined based on the following string:

```

false,order123,1d0a95f4-2589-439b-9562-
c50aa19f9caf,2004,CANCELLED,2016-11-
25T13:20:03.157+01:00,,EUR,0,EUR,4999

```