

# **TransactDirect Reporting Services**

The Monek Guide for Transaction Reporting

For use with Monek TransactDirect

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# Reporting API Authentication

### Generating an OAuth 2 Access Token

Accessing a Monek reporting API requires an OAuth 2 Access Token, which can be obtained using Client Credentials.

The client application can obtain an Access Token using the Monek OAuth endpoint:

```
https://oauth2.monek.com/oauth2/token
```

This endpoint requires a POST request. A Basic Authorization header should be present containing the client credentials base64-encoded in the format <client\_id>:<secret>.

In addition, the client should include an application/x-www-form-urlencoded body specifying the grant\_type and scope as follows.

Name	Value
grant_type	client_credentials
scope	As required by the report API to be requested

### Sample Request

The complete auth request should therefore look like this:

```
POST https://oauth2.monek.com/oauth2/token

Authorization: Basic <client_id>:<secret>
Content-Type: application/x-www-form-urlencoded

grant_type=client_credentials&scope=<reporting-service-scope>
```

### Sample Response

A successful response will include an OAuth2 Access Token, valid for one hour, enabling access to the API.

```
{
    "access_token": " c2FtcGxlX2FjY2Vzc190b2tlbl9oZXJl...",
    "expires_in": 3600,
    "token_type": "Bearer"
}
```



# Transaction Report API

### **Authentication**

Accessing the transaction reporting API requires an OAuth 2 Access Token, which can be obtained using Client Credentials and Scope:

Name	Value
grant_type	client_credentials
scope	transactdirect/get-transactions

### **TransactDirect Transaction Report**

The transaction query API will allow a merchant to query their transaction history for a given date range, Cross Reference, or merchant Payment Reference.

The OAuth2 Access Token must be specified as a Bearer token in the Authorization header.

 $\label{lem:get-def} $$\operatorname{GET}$ $$\operatorname{https://api.monek.com/transactdirect/v1/merchants/{monekId}/get-transactions?{querystring}$ 

Authorization: Bearer <oauth2token>

### Path Parameters

Field Name	Description	Req'd	Size	Туре
monekld	Monek issued merchant ID.	М	7	Z

### **Query String Parameters**

Field Name	Description	Req'd	Size	Туре
startDateTime	Start date and time for transaction report	М	25 max.	RFC 3339
endDateTime	End date and time for transaction report	М	25 max.	RFC 3339
crossReference	Filters the transaction results by the supplied Monek Cross Reference	O*1	21 max.	Α
paymentReference	Filters the transaction results by the supplied Merchant Payment Reference	O*1	50 max.	Α



	Filters the transaction results by the supplied Tracking Token and will include matching transactions across all related merchants.			
trackingToken	Note: The tracking token requested must be present on monekld supplied in path.	O*1	32	Α
	Note: Only available if tracking tokens enabled across merchant estate			

<sup>\*1</sup> Only one optional filter parameter should be supplied. If multiple filter parameters are present the most restrictive will be chosen with the following priority: Cross Reference, Payment Reference, Tracking Token.

### Example:

GET https://api.monek.com/transactdirect/v1/merchants/0000018/get-transactions?startDateTime=2019-12-04T10:21:10&endDateTime=2019-12-11T10:21:12

Authorization: Bearer eyJraWQiOiJRekQzNV14TG9tdURhQ...

### Response Fields

Field Name	Description	Size	Туре
merchant	Monek issued merchant ID	7	Ν
startDateTime	Start date and time for transaction report	25 max.	RFC 3339
endDateTime	End date and time for transaction report	25 max.	RFC 3339
message	Summary message for report. e.g.  • Success  • Unauthorised	٧	A
filterType	Confirms the type of filter used for the report, if any.	٧	Α
filterValue	Confirms the value used to filter the report	٧	Α
transactionCount	Count of total transactions returned	7	Ν
transactionDetails	Collection of transaction results. See Transaction Fields for record format.	V	Α

### Transaction Detail Fields

Field Name	Description	Size	Туре
transactionDateTime	Transaction response date and time	33	8601
requestDateTime	Transaction request date and time	33	8601
source	The source of the transaction	٧	Α



transactionType	Transaction type	V	Α
dispatch	Deferred dispatch type	5	Α
isReversed	Indicates if this transaction was subsequently reversed	5	В
amount	Transaction amount in minor currency	10	Ν
cashbackAmount	Cashback amount in minor currency	10	Ν
currencyCode	Transaction currency code	3	Ν
countryCode	Merchant country code	3	Ν
idempotencyToken	Merchant supplied unique identifier for transaction	50	Α
paymentReference	Merchant payment reference	50	Α
paymentChannel	Merchant payment channel	50	Α
paymentDetail	Merchant payment detail	1500	Α
merchantData	Additional merchant data	1500	Α
result	Transaction result details object		
crossReference	A unique reference for this transaction	50	Α
responseCode	TransactDirect response code	2	Ν
responseMessage	Transaction response message	80	Α
authorisationCode	Authorisation code	2-8	Ν
avsCv2Code	AVS/CV2 response code	6	Ν
avsCv2Message	AVS/CV2 response message	30	Α
threeDSecure	3-D Secure result details object		
enrolled	3-D Secure enrolment status code	1	Α
authenticated	3-D Secure authenticated status code	1	Α
eci	E-commerce indicator	2	Α
cavv	Cardholder authentication value	32	Α
transactionId	3-D Secure transaction ID	20	Ν
acquirerReference	Acquirer reference number	٧	Α
auditTrail	Information about linked transactions	٧	Α
cardToken	A reusable code identifying this card	50	Α



trackingToken	A unique tracking token for the card used	32	Α
terminalld	Terminal ID used for this transaction	8	N
messageNumber	Transaction message number	4	N
merchant	Merchant details object	<u>.</u>	
monekld	Monek merchant ID	7	N
merchantNumber	Bank issuer merchant number	15	N
acquirer	Acquirer name. <b>Echo+</b>	V	Α
name	Merchant name	V	Α
location	Merchant location	V	Α
subMerchant	Payment Facilitator sub merchant details object	<u>.</u>	
subMerchantId	Sub merchant number	15	Α
name	Sub merchant name	22	Α
address	Sub merchant address	48	Α
city	Sub merchant city	13	А
postcode	Sub merchant postcode	10	Α
state	Sub merchant state	3	Α
countryCode	Sub merchant country code	3	N
device	Payment device details object		
deviceDateTime	Transaction date and time on payment device	V	8601
terminalld	Payment device terminal ID	8	N
messageNumber	Payment device message number	4	N
cardholder	Cardholder details object		•
name	Cardholder name	30	Α
address	Cardholder address	100	Α
postcode	Cardholder postal code	10	Α
phoneNumber	Cardholder phone number	30	Α
emailAddress	Cardholder email address	50	Α
card	Payment card details object	l	



Masked PAN	21	Α
Card start date in from YYMM	4	Ν
Card expiry date in form YYMM	4	Ν
Monek card type code	2	Α
Card type description	٧	Α
Card issuing country code where available	3	Ν
Line item data details		
Line item data product summary. From QAProducts.	168	Α
Description of tax or discount applied	20	Α
Value of discount change to total value	9	Ν
Value of tax change to total value	9	Ν
Collection of line items		
Description of line item	15	Α
Gross value of item in minor currency	10	Ν
Quantity of item	3	Ν
	Card start date in from YYMM  Card expiry date in form YYMM  Monek card type code  Card type description  Card issuing country code where available  Line item data details  Line item data product summary. From QAProducts.  Description of tax or discount applied  Value of discount change to total value  Value of tax change to total value  Collection of line items  Description of line item  Gross value of item in minor currency	Card start date in from YYMM 4  Card expiry date in form YYMM 4  Monek card type code 2  Card type description V  Card issuing country code where available 3  Line item data details  Line item data product summary. From QAProducts. 168  Description of tax or discount applied 20  Value of discount change to total value 9  Value of tax change to total value 9  Collection of line items 15  Gross value of item in minor currency 10

### Successful Response Example



```
"messageNumber": "0858"
                                     "merchant": {
    "monekId": "9876543",
    "merchantNumber": "0123456789",
    "acquirer": "Monek",
    "same": "Test Merchant",
    "sahfield"
                                      },
"cardholder": {
    "name": "Mr Smith",
    "address": "12 High Street",
    "postcode": "B1 2BC"
                                       },
"card": {
                                               "d": {
  "maskedCard": "453979******0106",
  "expiryDate": "2212",
  "cardType": "VD",
  "cardDescription": "Visa Debit",
  "issuerCountryCode": "826"
                                      },
"lineItemData": {
    "lineItems": [
                                                               "description": "Goods",
"grossValue": "499",
"quantity": "1"
                                               ]
                                     }
                             }
                       ]
                }
Unauthorised Example
                {
                         "message": "Unauthorized"
```

}



# Payment Facilitator Report API

### **Authentication**

Accessing the payment facilitator reporting API requires an OAuth 2 Access Token, which can be obtained using Client Credentials and Scope:

Name	Value
grant_type	client_credentials
scope	payment-facilitator/pending-transactions

### **Pending Transaction Report**

The OAuth2 Access Token must be specified as a Bearer token in the Authorization header.

GET https://api.monek.com/payment-facilitator/v1/merchants/{monekId}/pendingtransactions?{querystring}

Authorization: Bearer <oauth2token>

### **Path Parameters**

Field Name	Description	Req'd	Size	Туре
monekld	Monek issued merchant ID for the primary Payment Facilitator merchant.	М	7	N

### **Query String Parameters**

Field Name	Description	Req'd	Size	Туре
startDateTime	Start date and time to check for pending transactions	М	25 max.	RFC 3339
endDateTime	End date and time to check for pending transactions	М	25 max.	RFC 3339

### Example:

GET https://api.monek.com/payment-facilitator/v1/merchants/0000018/pending-transactions?startDateTime=2019-09-11T10:21:10&endDateTime=2019-09-11T10:21:12

Authorization: Bearer eyJraWQiOiJRekQzNV14TG9tdURhQ...



### Response Fields

Field Name	Description	Size	Туре
merchant	Monek issued merchant ID for the primary Payment Facilitator merchant.	7	Ν
startDateTime	Start date and time for pending transactions report	25 max.	RFC 3339
endDateTime	End date and time for pending transactions report	25 max.	RFC 3339
message	Summary message for report. e.g.  • Success  • Unauthorised	<b>&gt;</b>	A
transaction	Collection of transaction results. See Transaction Fields for record format.	<b>V</b>	Α

### **Transaction Fields**

Field Name	Description	Size	Туре
transactionDateTime	The date and time of the transaction in RFC-3339 format	25 max.	RFC 3339
crossReference	Monek Cross Reference that uniquely identifies this transaction	50	Α
paymentReference	Merchant supplied payment reference for this transaction	50	Α
responseCode	Monek standard transaction response code is ISO format  Note: Numeric fields are typically returned as string to preserve leading zero in native formats.	2	A
authorisationCode	The authorisation code issued for a successful transaction.  Normally this is 2 digits for American Express and 6 for other card schemes.  When presenting a transaction for settlement it is mandatory to confirm the authorisation code.  Note: An authorisation code is strictly alphanumeric. While typically numeric an authorisation code may also contain letters.	2-8	Α



### Success Example

### **Unauthorised Example**

```
{
    "message": "Unauthorized"
}
```



## **Contact Details**

### **Technical Enquiries**

For all technical enquiries please contact a member of the Monek technical team on +44 (0) 345 269 6645 or by email to <a href="mailto:support@monek.co.uk">support@monek.co.uk</a>.

### Sales Enquiries

For sales enquiries, please contact a member of the Monek sales team on +44 (0) 345 269 6645.