



Domain: SIMinfo

api@orange.com

Product: CDREventsReport

Version: v1

Access: Pre-Commercial/Commercial

API allows you to gather information about the CDR events for successful (Voice/SMS/MMS/Data) & unsuccessful call attempts for MSISDN
The CDR events are available up to 30 min after event registration in OPL IT systems.

API details

Authorization	oAuth2.0, ApiKey
oAuth 2.0 documentation	https://{host}/oauth/v2/doc.json https://{host}/oauth/v2/doc.pdf
HTTP Method	GET
URI request for CDREventsReport (v1.2)	https://{host}/SIMinfo/v1/CDREventsReport?msisdn=...&apikey=...&date=.....&type=..... where: For commercial access host is apib2b.orange.pl For pre-commercial access host is apib2b-test.orange.pl
URI request for documentation (v1.2)	pdf format: https://{host}/SIMinfo/v1/CDREventsReport/doc.pdf swagger 2.0 format: https://{host}/SIMinfo/v1/CDREventsReport/doc.json
URI request to check the limit	https://{host}/SIMinfo/v1/CDREventsReport/limits?apikey=...

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API CDREventsReport Request:

Authorization	oAuth2.0, ApiKey
HTTP Methods	GET
Request URI	https://{host}/SIMInfo/v1/CDREventsReport?msisdn=...&apikey=...&date=.....&type=....

Request parameters:

Parameter	Description	Parameter type	Required	Data type
msisdn	Orange number for which related CDR events are requested, eg. 48501200200	query	yes	Integer
date	requested date of CDR events to be reported in. ex. 20180131	query	yes	String
type	type of the registered CDR events: ° GSM (voice/SMS/MMS), ° GPRS (2G/3G/4G data sessions), ° UCA (unsuccessful calls), ° ALL (all records)	query	yes	String
apikey	authorization key	query	yes ¹	String
authorization	header for oauth2.0	header	yes ¹	String

¹ One of these authorization parameters is required

Response format:

For correct requests API return 200OK status with body in JSON format:

Parameter	Description	Type
asn_typ_danych	type of record: available GSM (Voice+SMS+MMS) or GPRS (Data 2G/3G channel) or UCA (Unsuccessful Calls)	String
asn_msisdn	MSISDN number for which event is registered	String
asn_datetime	date & time of registered event	String
asn_imsi	IMSI number for which event is registered	String
asn_imei	IMEI number for which event is registered	String
asn_other_party	B party in MOC type, A party in MTC type, in. eg: 48502866219; presented only for GSM and UCA record types. (Note: If B party has set call forwarding, in that case may be generated two CDRs, the first for B party and the second for the forwarded number (C party). Typically, CDREventsReport is presented only for the connection to the number B).	String
asn_duration	successful call/data session duration in sec, presented only for GSM and GPRS record types and selected 'asn_typ_rekordu'	String
asn_intermediate	record category : single (S), first (F), intermediate (I), final (L)	String
asn_typ_rekordu	extended record type as listed in table below	String
dzien	record event	String
asn_dataVol	upload data volume used in DATA session (2G/3G) in kB, presented only for GPRS record types day, eg: 20160801	String

asn_apn	APN name used for DATA connection in. ex: internet; presented only for GPRS record types	String
asn_messages	upload + download data volume used in DATA session (2G/3G) in kB, presented only for GPRS record types day, eg: 20160801	String

Asn_typ_rekordu field is coded as presented in table below:

asn_typ_rekordu:	description:
FWD	Forwarding call
GPRS	Data 2G, 3G, 4G.
MMSMO	MMS send
MMSMT	MMS receive
MOC	Mobile Originated Call
MTC	Mobile Terminated Call ²
POC	Offnet incoming call
PTC	Offnet outgoing call ³
RCF	Roaming Call Forward
SMSMO	SMS send
SMTMT	SMS receive (incl. delivery reports)
SOC	Outgoing SIP call
STC	Incoming SIP call
XOC	Outgoing PABX call

Response body:

The response body for this operation is represented by the following JSON data structure, where the value part of each name/value pair indicates its data type:

```
[{
  "asn_typ_danych": "String",
  "asn_MSISDN": "String",
  "asn_datetime": "String",
  "asn_IMSI": "String",
  "asn_IMEI": "String",
  "asn_other_party": "String",
```

² The records can be duplicated for asn_typ_rekordu type: MTC, PTC.

³ The records can be duplicated for asn_typ_rekordu type: MTC, PTC.

```
"asn_duration":"Integer",
"asn_intermediate":"String",
"asn_typ_rekordu":"String",
"dzien":"String",
"asn_datavol":"String", "asn_apn":"String",
"asn_messages":"String"
}]
```

API CDREventsReport - limit checking

Request:

Authorization	oAuth2.0, ApiKey
HTTP Methods	GET
Request URI	https://{host}/SIMInfo/v1/CDREventsReport/limits?apikey=...

Request parameters:

Parameter	Description	Parameter Required type		Data type
apikey	authorization key	query	yes ⁴	String
authorization	header for oauth2.0	header	yes ⁴	String

Response format:

For correct requests API return 200OK status with body in JSON format.

Parameter	Description	Type
used	number of API calls registered in a given billing period ⁵	String

⁴ one of the authorization parameters is required

⁵ the billing period is 30 days



available	number of API calls remaining in the billing period	String
date	the nearest call renewal date after the end of the billing period	String

```
{  
  "used": "String",  
  "available": "String",  
  "date": "String"  
}
```

HTTP Errors

The Headers of error response are standard HTTP Status Codes:

- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not found
- 500 Internal Server Error
- 503 Service Unavailable
- 504 Gateway Time-out
- 510 Not Extended

Error Body

The body of failed response contains the error code with details of error:

```
{  
  "code": Integer,  
  "message": "String",  
  "description": "String"  
}
```

List of error codes:

HTTP

400

Codes:

30 - Missing parameters - Parameter **msisdn**, **date**, **type** are required

31 - Wrong parameter format - Parameter **msisdn** consist of 11 digits. Country Code +9 digits

32 - Wrong parameter format - Parameter **msisdn** should be Polish number, start with Country Code 48

HTTP

401

Codes:

41 - Invalid credentials - The requested service needs credentials, but the ones provided were invalid

40 - Missing credentials

HTTP

403:

Codes:

50 - Access denied - The application that makes the request is not authorized to access this endpoint

51 - No permission for this number - MSISDN not defined on list of allowed numbers

53 - Too many requests - The application has made too many calls and has exceeded the rate limit for this service.

HTTP

404:

Codes:

60 - Resource not found - The requested resource does not exist

HTTP

405:

Codes:

61 - Method not allowed - The URI does not support the requested method

Examples

Example 1: CDREventsReport request – Authorization with APIKey

`https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport?msisdn=48510123456&date`



=20160801&type=GSM&apikey=tTGPMspDeGpdGQ8PLCyf...jz5zQdZ **Example**

2: CDREventsReport Request – Authorization OAuth 2.0

Request Header:

Authorization: Bearer

dFRHUE1zcERlR3BkR1E...anlelFkWm6N2xkRzh5YnJ4SmxUSHpNbQ==

Request: https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport?
msisdn=48510123456&date=20160108&type=GSM

Example 3: CDREventsReport response

Response Header:

Status Code: 200 OK

Response Body example 1 (GSM)

```
[{"asn_typ_danych":"GSM","asn_MSISDN":"48517005586","asn_datetime":"20161012163308","asn_IMSI":"260034001908296","asn_IMEI":"3585080041233","asn_other_party":"OrangeInfo","asn_duration":"","asn_intermediate":"S","asn_typ_rekordu":"SMTMT","dzien":"20161012","asn_dataVol":"","asn_apn":"","asn_messages":"1"}]
```

Response Body example 2 (GPRS)

```
[{"asn_typ_danych":"GPRS","asn_MSISDN":"48517000092","asn_datetime":"20161012154309","asn_IMSI":"260034600008299","asn_IMEI":"35850007241243","asn_other_party":"","asn_duration":"1673","asn_intermediate":"S","asn_typ_rekordu":"GPRS","dzien":"20161012","asn_dataVol":"763","asn_apn":"internetip6","asn_messages":"24753"}]
```

Example 4: CDREventsReport Request – Wrong apikey

Response Header:

Status Code: 401 Unauthorized

Response Body

```
{"code":41,"message":"Invalid credentials","description":"The requested service needs credentials, but the ones provided were invalid."}
```

Example 5: CDREventsReport Request – Lack of apikey

Response Header:

Status Code: 401 Unauthorized



Response Body

```
{"code":40,"message":"Missing credentials","description":"The requested service needs credentials, but none were provided."}
```

Example 6: CDREventsReport Request – Limit is reached

Response Header:

Status Code: 403 Forbidden

Response Body

```
{"code":53,"message":"Too many requests","description":"The application has made too many calls and has exceeded the rate limit for this service."}
```

Example 7: CDREventsReport – Request for documentation in json format (swagger 2.0)

<https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport/doc.json>

Example 8: CDREventsReport – Request for documentation in pdf format

<https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport/doc.pdf>

Example 9: CDREventsReport – Request to check the limit – Authorization APIKey

<https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport/limit?apikey=tTGPMspDeGpdG...LCyfdSD1jz5zQdZb>

Example 10: CDREventsReport – Request to check the limit – Authorization oAuth 2.0

Request Header:

Authorization: Bearer

dFRHUE1zcERlR3BkR1E4UEEx...U0Qxano1e1FkWmI6N2xkRzh5YnJ4SmxUSHpNbQ==

**Request:**

`https://apib2b.orange.pl/SIMinfo/v1/CDREventsReport/limit`

Example 11: CDREventsReport – Check the limit -Response

```
{"used":"45","available":"55","date":"Tue Jun 30 2018"}
```