

SUBSCRIBER INFORMATION REQUEST

API

THIS DOCUMENTATION DESCRIBES:

Grapevine's Subscriber Information Request API.

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SUPPORT:

Call us on +27 21 702 3333, or
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**Note, you must be registered with
Grapevine to log a support query.*

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1 About

The Subscriber Information Request (SIR) API allows the caller to retrieve SIM swap and ported number information for a South African mobile subscriber. The API supports JSON and XML media types.

2 SIM Swap

A SIM swap occurs when a subscriber replaces their SIM card while retaining the same mobile number. The API returns the date and time of the last SIM swap recorded for the requested MSISDN.

3 Ported Number

Porting occurs when a mobile subscriber transfers from one network to another while retaining their existing mobile number. The API returns the original network, the current network, and the date on which the port took place.

4 Authentication

All API requests require a valid `affiliateCode` and `authenticationCode` issued by Grapevine. These credentials must be included in every request body. If authentication fails, a `responseCode` of 5 is returned.

5 Media Types

The SIR API accepts the following media types:

Request Content-Type	Response Content-Type	Endpoint	Notes
application/json	application/json	/sira	Recommended. Returns full ported and SIM swap detail.
application/xml	application/xml	/sira	Returns full ported and SIM swap detail.
application/x-www-form-urlencoded	application/xml	/simswap	Legacy endpoint only. XML body in form payload.

6 POST /sira

The primary endpoint accepts JSON or XML and returns a structured response containing SIM swap date and ported network information.

Host: simswap-api.vine.co.za

7 Request Fields

Field	Required	Description
affiliateCode	Yes	Your Grapevine affiliate code
authenticationCode	Yes	Your Grapevine authentication code
requestId	Yes	Your unique reference for this request
msisdn	Yes	Mobile number in international format (e.g. 27828511234)

8 Response Fields

Field	Description
msisdn	The mobile number that was queried
requestId	Echo of the requestId provided in the request
responseDateTime	Date and time the response was generated (yyyy-MM-dd HH:mm:ss)
simSwapDate	Date and time of last SIM swap (yyyy-MM-dd HH:mm:ss), empty if none
portedFromNetwork	Original network before porting, empty if not ported
portedToNetwork	Current network
portedDate	Date and time the port occurred (yyyy-MM-dd HH:mm:ss), empty if not ported
responseCode	Numeric response code (see Response Codes section)
responseMessage	Human-readable response description

9 POST /sira JSON Sample

request

```
POST /sira HTTP/1.1
Content-Type: application/json;charset=UTF-8
Accept: application/json
Host: simswap-api.vine.co.za

{
  "affiliateCode": "AFFILIATE_CODE",
  "authenticationCode": "AUTHENTICATION_CODE",
  "requestId": "12345-YOUR-REF",
  "msisdn": "27828511234"
}
```

response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8

{
  "msisdn": "27828511234",
  "requestId": "12345-YOUR-REF",
  "responseDateTime": "2024-03-15 10:30:45",
  "simSwapDate": "2023-11-20 14:22:10",
  "portedFromNetwork": "vodacom",
  "portedToNetwork": "mtn",
  "portedDate": "2022-06-15 09:15:00",
  "responseCode": "0",
  "responseMessage": "FOUND SIMSWAP INFORMATION"
}
```

curl

```
$ curl 'https://simswap-api.vine.co.za/sira' \
-i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Accept: application/json' \
-d '{
  "affiliateCode": "AFFILIATE_CODE",
  "authenticationCode": "AUTHENTICATION_CODE",
  "requestId": "12345-YOUR-REF",
  "msisdn": "27828511234"
}
```

```
}'
```

10 POST /sira XML Sample

request

```
POST /sira HTTP/1.1
Content-Type: application/xml;charset=UTF-8
Accept: application/xml
Host: simswap-api.vine.co.za

<?xml version="1.0" encoding="UTF-8"?>
<subscriberInformationRequest>
  <affiliateCode>AFFILIATE_CODE</affiliateCode>
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>
  <requestId>12345-YOUR-REF</requestId>
  <msisdn>27828511234</msisdn>
</subscriberInformationRequest>
```

response

```
HTTP/1.1 200 OK
Content-Type: application/xml;charset=UTF-8

<?xml version="1.0" encoding="UTF-8"?>
<SubscriberInformation>
  <msisdn>27828511234</msisdn>
  <requestId>12345-YOUR-REF</requestId>
  <responseDateTime>2024-03-15 10:30:45</responseDateTime>
  <simSwapDate>2023-11-20 14:22:10</simSwapDate>
  <portedFromNetwork>vodacom</portedFromNetwork>
  <portedToNetwork>mtn</portedToNetwork>
  <portedDate>2022-06-15 09:15:00</portedDate>
  <responseCode>0</responseCode>
  <responseMessage>FOUND SIMSWAP INFORMATION</responseMessage>
</SubscriberInformation>
```

11 Authentication Failure Sample

Request: same format as the JSON sample above.

response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8

{
  "msisdn": "27828511234",
  "requestId": "12345-YOUR-REF",
  "responseDateTime": "2024-03-15 10:30:45",
  "simSwapDate": "",
  "portedFromNetwork": "",
  "portedToNetwork": "",
  "portedDate": "",
  "responseCode": "5",
  "responseMessage": "AUTHENTICATION ERROR. VERIFY USER CREDENTIALS"
}
```

12 No Information Found Sample

When a subscriber has no SIM swap history, or the network cannot return data:

response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8

{
  "msisdn": "27828511234",
  "requestId": "12345-YOUR-REF",
  "responseDateTime": "2024-03-15 10:30:45",
  "simSwapDate": "",
  "portedFromNetwork": "vodafone",
  "portedToNetwork": "vodafone",
  "portedDate": "",
  "responseCode": "3",
}
```

```
"responseMessage": "SIMSWAP INFORMATION COULD NOT BE RETRIEVED"
}
```

13 POST /simswap

The legacy endpoint is retained for backward compatibility. It accepts a form-urlencoded POST with an XML body and always returns XML.

New integrations should use POST /sira.

Host: simswap-api.vine.co.za

14 POST /simswap Sample

request

```
POST /simswap HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Host: simswap-api.vine.co.za

<?xml version="1.0" encoding="UTF-8"?>
<subscriberInformationRequest>
  <affiliateCode>AFFILIATE_CODE</affiliateCode>
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>
  <requestId>12345-YOUR-REF</requestId>
  <msisdn>27828511234</msisdn>
</subscriberInformationRequest>
```

response

```
HTTP/1.1 200 OK
Content-Type: application/xml; charset=UTF-8

<?xml version="1.0" encoding="UTF-8"?>
<subscriberInformationResponse>
  <requestType>simswap</requestType>
  <requestId>12345-YOUR-REF</requestId>
  <msisdn>27828511234</msisdn>
  <network>mtn</network>
  <responseDateTime>2024-03-15 10:30:45</responseDateTime>
```



```

<requestDateTime>2024-03-15 10:30:44</requestDateTime>
<responseType>Reply</responseType>
<responseStatus>
  <responseCode>0</responseCode>
  <responseData>2023-11-20 14:22:10</responseData>
</responseStatus>
</subscriberInformationResponse>

```

curl

```

$ curl 'https://simswap-api.vine.co.za/simswap' \
-i -X POST \
-H 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode '<?xml version="1.0" encoding="UTF-8"?>
<subscriberInformationRequest>
  <affiliateCode>AFFILIATE_CODE</affiliateCode>
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>
  <requestId>12345-YOUR-REF</requestId>
  <msisdn>27828511234</msisdn>
</subscriberInformationRequest>'

```

15 Response Codes

Response codes returned in responseCode (or responseStatus.responseCode for the legacy /simswap endpoint):

Code	responseMessage	Description
0	FOUND SIMSWAP INFORMATION	Success. SIM swap date in simSwapDate (or responseData for legacy).
1	SERVICE TIMEOUT	The upstream network provider did not respond in time.
3	SIMSWAP INFORMATION COULD NOT BE RETRIEVED	No SIM swap data available for this subscriber.
4	INVALID PAYLOAD	Request body is malformed or missing required fields.
5	AUTHENTICATION ERROR. VERIFY USER CREDENTIALS	Invalid affiliateCode or authenticationCode.

6	INVALID MSISDN	The MSISDN is not a valid South African mobile number.
7	NETWORK NOT ENABLED OR CONFIGURED	The subscriber's network is not supported.
8	AN UNEXPECTED ERROR OCCURRED. PLEASE TRY AGAIN LATER	System error.