

SUBSCRIBER INFORMATION REQUEST

API

THIS DOCUMENTATION DESCRIBES:

Grapevine's Subscriber Information Request API.

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1 About

The Subscriber Information Request API allows the end user to retrieve information for a mobile subscriber, such as last SIM swap and ported information.

2 SIM Swap

A SIM swap happens when a user uses a new sim card and assign an existing mobile number to the new sim. When we do a call to the API we would be able to see when last the mobile number in question has replaced the sim.

3 Ported Number

Porting occurs when a mobile subscriber from an existing mobile network changes to an alternative network.

4 Media Types

The subscriber request API accepts the following media types when doing a request

Request	Response	SIM Swap Information	Ported Information
application/xml	application/xml	Yes	No
text/xml	application/xml	Yes	No
text/plain	application/xml	Yes	No
application/x-www-form-urlencoded (parameter: xml)	application/xml	Yes	No
application/json	application/json	Yes	Yes

5 POST Sample using XML with last sim swap information

request

```
POST /sir/simswapxml HTTP/1.1
Content-Type: application/xml;charset=UTF-8
Accept: application/xml
Host: simswap-api.vine.co.za
Content-Length: 331

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

response

```
HTTP/1.1 200 OK
Content-Length: 880
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>2020-04-17 15:18</responseDateTime>
  <requestDateTime>2020-04-17 15:18</requestDateTime>
  <responseType>reply</responseType>
  <responseStatus>
    <responseCode>0</responseCode>
    <responseData>2016-12-22 15:49:21</responseData>
  </responseStatus>
  <isPorted>true</isPorted>
  <portedDateTime>2014-02-05 10:59</portedDateTime>
  <portedDate>2014-02-05</portedDate>
  <portedTime>10:59</portedTime>
  <previousNetwork>vodacom</previousNetwork>
  <simSwapDate>2016-12-22</simSwapDate>
  <simSwapTime>15:49</simSwapTime>
  <simSwapDateTime>2016-12-22 15:49</simSwapDateTime>
</subscriberInformationResponse>
```

curl

```
$ curl 'https://simswap-api.vine.co.za/sir/simswapxml' -i -X POST \  
  -H 'Content-Type: application/xml;charset=UTF-8' \  
  -H 'Accept: application/xml' \  
  -d '<?xml version="1.0" encoding="UTF-8"?>  
<subscriberInformationRequest>  
  <affiliateCode>AFFILIATE_CODE</affiliateCode>  
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>  
  <requestType>simswap</requestType>  
  <requestId>12345-YOUR-REF</requestId>  
  <msisdn>27828511234</msisdn>  
</subscriberInformationRequest>  
'
```

http-pie

```
$ echo '<?xml version="1.0" encoding="UTF-8"?>  
<subscriberInformationRequest>  
  <affiliateCode>AFFILIATE_CODE</affiliateCode>  
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>  
  <requestType>simswap</requestType>  
  <requestId>12345-YOUR-REF</requestId>  
  <msisdn>27828511234</msisdn>  
</subscriberInformationRequest>  
' | http POST 'https://simswap-api.vine.co.za/sir/simswapxml' \  
  'Content-Type:application/xml;charset=UTF-8' \  
  'Accept:application/xml'
```

6 Authentication Failure Sample

request

```
POST /sir/simswapxml HTTP/1.1
Content-Type: application/xml;charset=UTF-8
Accept: application/xml
Host: simswap-api.vine.co.za
Content-Length: 331

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

response

```
HTTP/1.1 200 OK
Content-Type: application/xml;charset=UTF-8
Content-Length: 567

<?xml version="1.0" encoding="UTF-8"?>
<subscriberInformationResponse>
  <requestType>simswap</requestType>
  <requestId>12345-YOUR-REF</requestId>
  <msisdn>27828511234</msisdn>
  <network>unknown</network>
  <responseDateTime>2020-04-17 15:18</responseDateTime>
  <requestDateTime>2020-04-17 15:18</requestDateTime>
  <responseType>error</responseType>
  <responseStatus>
    <responseCode>5</responseCode>
    <responseData>Authentication error. Verify user
credentials</responseData>
  </responseStatus>
</subscriberInformationResponse>
```

curl

```
$ curl 'https://simswap-api.vine.co.za/sir/simswapxml' -i -X POST \  
  -H 'Content-Type: application/xml;charset=UTF-8' \  
  -H 'Accept: application/xml' \  
  -d '<?xml version="1.0" encoding="UTF-8"?>  
<subscriberInformationRequest>  
  <affiliateCode>AFFILIATE_CODE</affiliateCode>  
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>  
  <requestType>simswap</requestType>  
  <requestId>12345-YOUR-REF</requestId>  
  <msisdn>27828511234</msisdn>  
</subscriberInformationRequest>  
'
```

http-pie

```
$ echo '<?xml version="1.0" encoding="UTF-8"?>  
<subscriberInformationRequest>  
  <affiliateCode>AFFILIATE_CODE</affiliateCode>  
  <authenticationCode>AUTHENTICATION_CODE</authenticationCode>  
  <requestType>simswap</requestType>  
  <requestId>12345-YOUR-REF</requestId>  
  <msisdn>27828511234</msisdn>  
</subscriberInformationRequest>  
' | http POST 'https://simswap-api.vine.co.za/sir/simswapxml' \  
  'Content-Type:application/xml;charset=UTF-8' \  
  'Accept:application/xml'
```


7 POST Sample using JSON with sim swap and ported information

request

```
POST /sir/simswapjson HTTP/1.1
Accept: application/json
Content-Type: application/json;charset=UTF-8
Host: simswap-api.vine.co.za
Content-Length: 179
```

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

response

```
HTTP/1.1 200 OK
Content-Length: 580
Content-Type: application/json;charset=UTF-8

{
  "requestType" : "simswap",
  "requestId" : "12345-YOUR-REF",
  "msisdn" : "27828511234",
  "network" : "mtn",
  "responseDateTime" : "2020-04-17 15:18",
  "requestDateTime" : "2020-04-17 15:18",
  "responseType" : "reply",
  "responseStatus" : {
    "responseCode" : "0",
    "responseData" : "2016-12-22 15:49:21"
  },
  "isPorted" : "true",
  "portedDateTime" : "2014-02-05 10:59",
  "portedDate" : "2014-02-05",
  "portedTime" : "10:59",
  "previousNetwork" : "vodacom",
  "simSwapDate" : "2016-12-22",
  "simSwapTime" : "15:49",
  "simSwapDateTime" : "2016-12-22 15:49"
}
```

curl

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

http-pie

```
$ echo '{  
  "affiliateCode" : "AFFILIATE_CODE",  
  "authenticationCode" : "AUTHENTICATION_CODE",  
  "requestType" : "simswap",  
  "requestId" : "12345-YOUR-REF",  
  "msisdn" : "27828511234"  
}' | http POST 'https://simswap-api.vine.co.za/sir/simswapjson' \  
  'Accept:application/json' \  
  'Content-Type:application/json;charset=UTF-8'
```

8 Authentication Failure Sample

request

```
POST /sir/simswapjson HTTP/1.1
Accept: application/json
Content-Type: application/json;charset=UTF-8
Host: simswap-api.vine.co.za
Content-Length: 179

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

response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 354

{
  "requestType" : "simswap",
  "requestId" : "12345-YOUR-REF",
  "msisdn" : "27828511234",
  "network" : "unknown",
  "responseDateTime" : "2020-04-17 15:18",
  "requestDateTime" : "2020-04-17 15:18",
  "responseType" : "error",
  "responseStatus" : {
    "responseCode" : "5",
    "responseData" : "Authentication error. Verify user credentials"
  }
}
```

curl

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

http-pie

```
$ echo '{  
  "affiliateCode" : "AFFILIATE_CODE",  
  "authenticationCode" : "AUTHENTICATION_CODE",  
  "requestType" : "simswap",  
  "requestId" : "12345-YOUR-REF",  
  "msisdn" : "27828511234"  
}' | http POST 'https://simswap-api.vine.co.za/sir/simswapjson' \  
  'Accept:application/json' \  
  'Content-Type:application/json;charset=UTF-8'
```

9 No information found for a subscriber sample

When a subscriber has not ported or did not do a sim swap the following response will be expected

request

```
POST /sir/simswapjson HTTP/1.1
Accept: application/json
Content-Type: application/json;charset=UTF-8
Host: simswap-api.vine.co.za
Content-Length: 179

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

response

```
HTTP/1.1 200 OK
Content-Length: 309
Content-Type: application/json;charset=UTF-8

{
  "requestType" : "simswap",
  "requestId" : "12345-YOUR-REF",
  "msisdn" : "27828511234",
  "network" : "vodacom",
  "responseDateTime" : "2020-04-17 15:18",
  "requestDateTime" : "2020-04-17 15:18",
  "responseType" : "reply",
  "responseStatus" : {
    "responseCode" : "3",
    "responseData" : ""
  }
}
```

curl

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

http-pie

```
$ echo '{  
  "affiliateCode" : "AFFILIATE_CODE",  
  "authenticationCode" : "AUTHENTICATION_CODE",  
  "requestType" : "simswap",  
  "requestId" : "12345-YOUR-REF",  
  "msisdn" : "27828511234"  
}' | http POST 'https://simswap-api.vine.co.za/sir/simswapjson' \  
  'Accept:application/json' \  
  'Content-Type:application/json;charset=UTF-8'
```

10 Response Codes

This section specifies the response codes which will be returned in the responses.

Response Code	Description
0	The network provider has returned a valid response date which will be populated in the responseData field.
1	Service Timed out
2	The cell phone requested is not found
3	Subscriber information could not be retrieved
4	Invalid Request
5	Authentication error. Verify user credentials.
6	Invalid cell phone number
7	Network not supported
8	System Error