



Call Detail Records (CDRs) & Supporting Reports API

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Introduction

The REST API replaces the iPass Fetch script for automatically downloading reports, and like the Fetch script, it is not an officially supported product. This API may be updated at some time in the future.

It is a REST API that should work with any language. The examples we give below are cURL scripts, but REST calls can be made from any other language (such as C or Java).

Prerequisites

You need to create (or have access to) a user with the Bill Viewer role (and for child accounts, the user will need the Delegated Bill Viewer role). You can confirm that a user has the appropriate roles by logging into the Open Mobile Portal as this user and downloading the appropriate reports.

High Level Steps

Scripts should follow these steps:

1. Use the Portal login API to login as the user described in the prerequisite above. Store the cookie received from the login call. Ignore all the resulting data coming back from the login API.
2. Passing the cookie back, invoke the API to download the required reports file for the customer.

The URL contains the Company ID (represented by \$COMPANY in the sample scripts below). This Company ID should match the company that you would like to download reports for, and it is usually the Company ID of the user that you have set up.

The URL for each of the reports is slightly different (please see the sample scripts below).

3. Save the output.

Passwords with Special Characters

Special characters in passwords will have to be converted to URL-encoding in order to work with these scripts.

ASCII Character	URL-encoding
(space)	%20
!	%21
“	%22
#	%23
\$	%24
%	%25
&	%26
'	%27
(%28
)	%29

ASCII Character	URL-encoding
*	%2A
+	%2B
,	%2C
-	%2D
.	%2E
/	%2F

Network & Client Users

The Network & Client Users report summarizes important user information like the how many users logged onto an iPass network and which have used Open Mobile. The following information will be available:

Column Information

- **User Name:** The user name as it appears in the CDR.
- **User Domain:** The user's domain as it appears in the CDR.
- **Network User?** Indicates whether this user connected to an iPass network during the selected month (or there is at least one CDR this month for this user).
- **OM User?** Indicates whether this user connected to a network with an Open Mobile client during the selected month (or there is at least one Open Mobile SQM this month for this user).
- **iPC User?** Indicates whether this user connected to a network with an iPassConnect client during the selected month (or there is at least one iPassConnect SQM this month for this user).

```
#!/bin/bash
# The BASEURL in this script points to the Portal.
BASEURL=https://openmobile.ipass.com

Echo Enter the username
read USER

Echo Enter the password for user $USER
Read -s PASSWORD

Echo Enter the Company ID
read COMPANY

Echo Enter the month in the format YYYY-MM
read month

# Login to the Portal as a user who has access to view the Network & Client User Report
curl -k -c tmpCookies.txt "$BASEURL/moservices/rest/api/login?User-Agent=apiuser&username=$USER&password=$PASSSSWORD"

# Pass back the cookie returned by the login while retrieving the Network & Client User Report
```



```
curl -k -request GET -b tmpCookies.txt -o networkclientusers.csv
"$BASEURL/moservices/rest/api/ipass/$COMPANY/mo/cdrReports/networkAndClientUser?month
=$MONTH&User-Agent=apiuser"

rm tmpCookies.txt
```

Call Details Records (CDRs) API

The Call Detail Records (CDR) report features several different key pieces of information such as: Transaction ID, Billing code, User ID, Authentication Domain, etc. For more details on the fields contained within monthly and daily CDR reports, please visit our [Call Detail Records](#) help page.

Download Child Account IDs

The URL below will allow you to retrieve a list of your Child Accounts, along with ID, name, and status. Paste the URL into the address bar while logged into the Open Mobile Portal.

URL:

<https://openmobile.ipass.com/moservices/rest/api/ipass/COMPANYID/mo/omapi/findAllChildCompanies>

Result:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<companies>
  <company>
    <id>1234567</id>
    <name>XXXXX</name>
    <isActive>true</isActive>
  </company>
  <company>
    <id>1212121</id>
    <name>XXXXX</name>
    <isActive>true</isActive>
  </company>
  <company>
    <id>1231231</id>
    <name>XXXXX</name>
    <isActive>true</isActive>
  </company>
</companies>
```



Sample Scripts

The following examples are cURL scripts for invoking the various CDR download functions. You may use any language that supports HTTPS and processing of the output from HTTPS

cURL Example: Monthly CDR Download with comments

The following is an example cURL script that uses the CDR API to download a Monthly CDR.

```
#!/bin/bash
# The BASEURL in this script points to the portal
BASEURL=https://openmobile.ipass.com

echo Enter the company ID for which you need to download the Monthly CDR.
read COMPANY

echo Enter the username.
read USER

echo Enter password for user $USER.
read -s PASSWORD

echo Enter month in the format YYYY-MM
read month

# Login to the portal as a user who has access to view CDRs.
curl -k -c tmpCookies.txt "$BASEURL/moservices/rest/api/login?User-Agent=flex3.0&username=$USER&password=$PASSWORD"

# Pass back the cookie returned by the login while retrieving the cdr
curl -k --request GET -b tmpCookies.txt -o $month.csv
"$BASEURL/moservices/rest/api/ipass/$COMPANY/mo/cdrReports/monthly/cdr?User-Agent=apiuser&month=$month"

rm tmpCookies.txt
```


cURL Example: Daily CDR Download

The following is an example in cURL for writing a Monthly CDR Download script for the CDR API.

```
#!/bin/bash

BASEURL= https://openmobile.ipass.com

echo Enter the company ID for which you need to download the Monthly CDR.
read COMPANY

echo Enter the username.
read USER

echo Enter password for user $USER.
read -s PASSWORD

echo Enter date in the format YYYY-MM-DD
read date

curl -k -c tmpCookies.txt "$BASEURL/moservices/rest/api/login?User-Agent=flex3.0&username=$USER&password=$PASSWORD"

curl -k --request GET -b tmpCookies.txt -o $date.csv
"$BASEURL/moservices/rest/api/ipass/$COMPANY/mo/cdrReports/daily/cdrdaily?User-Agent=apiuser&date=$date"

rm tmpCookies.txt
```

cURL Example: Monthly Adj CDR

The following is an example in cURL for writing a Monthly Adjusted CDR Download script for the CDR API.

```
#!/bin/bash

BASEURL=https://openmobile.ipass.com

echo Enter the company ID for which you need to download the Monthly CDR.
read COMPANY

echo Enter the username.
read USER

echo Enter password for user $USER.
```

```
read -s PASSWORD

echo Enter month in the format YYYY-MM
read month

curl -k -c tmpCookies.txt "$BASEURL/moservices/rest/api/login? User-
Agent=flex3.0&username=$USER&password=$PASSWORD"

curl -k --request GET -b tmpCookies.txt -o $month.csv
"$BASEURL/moservices/rest/api/ipass/$COMPANY/mo/cdrReports/monthly/adjcdr?User-
Agent=apiuser&month=$month"

rm tmpCookies.txt
```

cURL Example: Daily Adjustment CDR

The following is an example in cURL for writing a Daily Adjusted CDR Download script for the CDR API.

```
#!/bin/bash

BASEURL=https://openmobile.ipass.com

echo Enter the company ID for which you need to download the Monthly CDR.
read COMPANY

echo Enter the username.
read USER

echo Enter password for user $USER.
read -s PASSWORD

echo Enter date in the format YYYY-MM-DD
read date

curl -k -c tmpCookies.txt "$BASEURL/moservices/rest/api/login?User-
Agent=flex3.0&username=$USER&password=$PASSWORD"

curl -k --request GET -b tmpCookies.txt -o $date.csv
"$BASEURL/moservices/rest/api/ipass/$COMPANY/mo/cdrReports/daily/adjcdrdaily?Us
er-Agent=apiuser&date=$date"

rm tmpCookies.txt
```



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