

DAILY CUBA ROAMING REPORT

This daily report is done to monitor traffic of our subscribers that are roaming in Cuba Network and making bypass. Since roaming in Cuba Network is so expensive then we should have closely checked it. So we use the below script to check daily calls summary, duration and charge of the calls for distinct number roaming in Cuba and making calls to different high cost destination. Then we calculate the **COST**, **REVENUE** and the **MARGIN**. So the critical point of this report is the **MARGIN** which is the difference between the **REVENUE** and the **COST** (**REVENUE – COST**). If this value is negative that means the **REVENUE** was less than the **COST**, so we have to investigate to see if the calls were well charged.

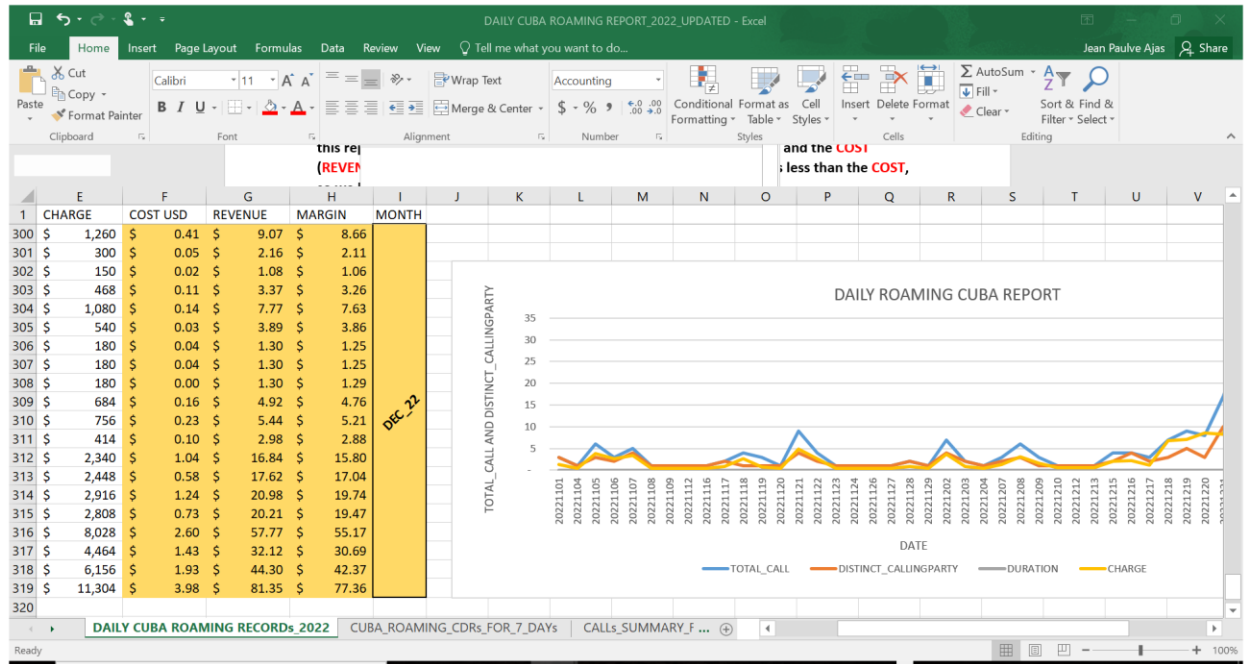
SCRIPT:

```
SELECT date_code,
       COUNT (1) TOTAL_CALL,
       COUNT (DISTINCT callingpartynumber) DISTINCT_CALLINGPARTY,
       SUM (TIMEUNIT1 / 60) DURATION,
       SUM (ACCOUNTVALUEDEDUCTED) CHARGE
FROM CCN.ST_CDRCCN_IMPORT@EXAE
WHERE   date_code >= '20221223'
       AND serviceidentifier = 0
       AND ROAMINGPOSITION = 1
       AND callingpartylocationid LIKE '36801%'
GROUP BY date_code
ORDER BY date_code;
```

STEPS:

- 1- Run the script above by modifying the DATE_CODE to the appropriate date.

2- Export the record to the first spreadsheet of the template excel file named



3- Run the below script to get the CDRs for last 7 days.

```

SELECT DATE_CODE,
        TIME_CODE,
        CALLINGPARTYNUMBER,
        CALLINGPARTYLOCATIONID,
        CALLEDPARTYNUMBER,
        TIMEUNIT1,
        SERVICEOFFERINGS,
        ACCOUNTVALUEDEDUCTED
FROM CCN.ST_CDRCCN_IMPORT@EXAE
WHERE   DATE_CODE >= '20221223'
        AND SERVICEIDENTIFIER = 0
        AND roamingposition = 1
        AND CALLEDPARTYNUMBER NOT LIKE '50937000000'
        AND CALLINGPARTYLOCATIONID LIKE '36801%'
        AND CALLINGPARTYNUMBER LIKE '509%'
ORDER BY DATE_CODE ASC;

```

- 4- Export the record and paste it to the second spreadsheet below of the template excel file named

| | A | B | C | D | E | F | G | H | I | J |
|-----|-----------|-----------|--------------------|------------------------|-------|-----------------|-------------------|-----------------------------------|----------|-----------------|
| | DATE_CODE | TIME_CODE | CALLINGPARTYNUMBER | CALLINGPARTYLOCATIONID | MCCM | ROAMING_COUNTRY | CALLEDPARTYNUMBER | CALLED_COUNTRY | TIMEUNIT | SERVICEOFFERING |
| 141 | 20221226 | 111921 | 50937456646 | 3680100033600510 | 36801 | CUBA | 50937051292 | Haiti Mobile - Digicel | 14 | |
| 142 | 20221226 | 105659 | 50931847957 | 3680100033600510 | 36801 | CUBA | 50938225787 | Haiti Mobile - Digicel | 1 | |
| 143 | 20221226 | 113807 | 50937456646 | 3680100033601610 | 36801 | CUBA | 50943811937 | Haiti Mobile - Natcom | 43 | |
| 144 | 20221226 | 92400 | 50937563738 | 3680100033600510 | 36801 | CUBA | 13052061012 | United States - ROC | 78 | |
| 145 | 20221226 | 92653 | 50937563738 | 3680100033600510 | 36801 | CUBA | 19202891224 | United States - ROC | 3 | |
| 146 | 20221226 | 92755 | 50937563738 | 3680100033600510 | 36801 | CUBA | 18138475411 | United States - ROC | 42 | |
| 147 | 20221226 | 103513 | 50931847957 | 3680100033600510 | 36801 | CUBA | 50931038916 | Haiti Mobile - Digicel | 21 | |
| 148 | 20221226 | 93458 | 50937563738 | 3680100033600510 | 36801 | CUBA | 19546960102 | United States - ROC | 49 | |
| 149 | 20221226 | 112017 | 50937456646 | 3680100033601610 | 36801 | CUBA | 50937051292 | Haiti Mobile - Digicel | 15 | |
| 150 | 20221226 | 112109 | 50937456646 | 3680100033600510 | 36801 | CUBA | 50937051292 | Haiti Mobile - Digicel | 28 | |
| 151 | 20221226 | 80220 | 50937563738 | 3680100033600510 | 36801 | CUBA | 15613358543 | United States - ROC | 142 | |
| 152 | 20221226 | 80650 | 50937563738 | 3680100033600510 | 36801 | CUBA | 18097435112 | Dominican Republic Mobile - Other | 24 | |

As we can see in the above script, there is not the CALLED_COUNTRY however we use the below script to determine the CALLED_COUNTRY by using the CALLEDPARTYNUMBER

```

SELECT DATE_CODE,
TIME_CODE,
SUBSCRIBERNUMBER,
CALLINGPARTYNUMBER,
CALLEDPARTYNUMBER,
BRISK.fn_intl_country_op (CALLEDPARTYNUMBER),
DEDACC1ID,
ACCOUNTVALUEAFTER,
CALLINGPARTYLOCATIONID,
TIMEUNIT1,
NVL (SUBSTR (TO_CHAR (fn_dec2bin (serviceofferings)), -27, 1), 0),
ACCOUNTVALUEDEDUCTED,
( (accountvaluededucted - 2.25 * CEIL (timeunit1 / 60))
/ ( (timeunit1) / 60))
rate_applied
FROM CCN.ST_CDRCCN_IMPORT@EXAE
WHERE date_code >= '20221223'
AND LENGTH (CALLEDPARTYNUMBER) > '8'
AND SERVICEIDENTIFIER = 0
AND ROAMINGPOSITION = 1
AND SERVICECLASSID < '2000'
AND CALLEDPARTYNUMBER NOT LIKE '%1B303%'
AND ACCOUNTVALUEDEDUCTED > 0
AND DEDACC1ID IS NULL
AND CALLEDPARTYNUMBER IN ('17862906166',

```

'50936102873',
 '50944693321',
 '13052061012',
 '5353220818',
 '50936408489')

5- Once getting the CALLED_COUNTRY, first we create a table of calls summary by CALLED_COUNTRY as shown the template excel file named below

Excel spreadsheet titled "DAILY CUBA ROAMING REPORT_2022_UPDATED - Excel". The spreadsheet shows a table with columns A and B. Column A lists various countries and regions, and column B shows the count of calls. The 'Grand Total' is 246. The table is filtered to show only 'Cuba'.

| Count of CALLEDPARTYNUMBER | CALLED_COUNTRY | Total |
|----------------------------|-----------------------------------|-------|
| 21 | Brazil - ROC | 21 |
| 7 | Brazil Mobile | 7 |
| 4 | Canada - ROC | 4 |
| 46 | Cuba | 46 |
| 4 | Dominican Republic Mobile - Other | 4 |
| 67 | Haiti Mobile - Digicel | 67 |
| 8 | Haiti Mobile - Natcom | 8 |
| 1 | Haiti Mobile - Other | 1 |
| 1 | Mexico - Zone3 | 1 |
| 10 | Spain - ROC | 10 |
| 11 | United States - OLO | 11 |
| 66 | United States - ROC | 66 |
| 246 | Grand Total | 246 |

6- Secondly, we create a table of daily call summary by CALLEDPARTYNUMBER as shown the template excel file named below

PivotTable Fields

Choose fields to add to report:

Search

☐ CALLINGPARTYNUMBER
☐ CALLINGPARTYLOCATIONID
☐ MCCMNC
☐ ROAMING_COUNTRY
☒ CALLEDPARTYNUMBER
☐ CALLED_COUNTRY

Drag fields between areas below:

FILTERS COLUMNS

ROWS VALUES

DATE_CO... Count of ...

Defer Layout Upd... UPDATE

| Count of CALLEDPARTYNUMBER | DATE_CODE | Total |
|----------------------------|-----------|-------|
| 3 | 20221101 | 3 |
| 1 | 20221104 | 1 |
| 6 | 20221105 | 6 |
| 3 | 20221106 | 3 |
| 5 | 20221107 | 5 |
| 1 | 20221108 | 1 |
| 1 | 20221109 | 1 |
| 1 | 20221112 | 1 |
| 1 | 20221116 | 1 |
| 2 | 20221117 | 2 |
| 4 | 20221118 | 4 |
| 3 | 20221119 | 3 |
| 1 | 20221120 | 1 |
| 9 | 20221121 | 9 |
| 4 | 20221122 | 4 |
| 1 | 20221123 | 1 |
| 1 | 20221124 | 1 |
| 1 | 20221126 | 1 |
| 1 | 20221127 | 1 |
| 2 | 20221128 | 2 |