

DAILY BROADSOFT E1 REPORT

This report is done to monitor all E1s that are part of the broadsoft project in order to prevent any fraudulent activity and bypass by following their usage and checking their diversity. Below is the script used for this report:

SCRIPTs:

```

/***** BROADSOFT E1s SUMMARY *****/

SELECT DISTINCT

    CALLINGNUMBER,

    DATE_CODE,

    COUNT (1) call_count,

    COUNT (DISTINCT CALLEDNUMBER) UNIQ_B,

    CEIL (

        SUM (

            ( TO_DATE (SUBSTR (RELEASETIME, 1, 14),

'yyyymmddhh24miss')

            - TO_DATE (SUBSTR (ANSWERTIME, 1, 14),

'yyyymmddhh24miss'))

            * 24

            * 60

            * 60)

        / 60)

    DURATION

FROM DWH_BROADSOFT.ST_CDRBROADSOFT_IMPORT@exae

WHERE     DATE_CODE >= '20250321'

AND DIRECTION LIKE 'Originating'

AND ( ( TO_DATE (SUBSTR (RELEASETIME, 1, 14), 'yyyymmddhh24miss')

        - TO_DATE (SUBSTR (ANSWERTIME, 1, 14), 'yyyymmddhh24miss'))

        * 24

        * 60

        * 60) > 0

GROUP BY DATE_CODE, CALLINGNUMBER
```

```

ORDER BY DATE_CODE ASC;

/***** BROADSOFT E1s DIVERSITY *****/

SELECT CALLINGNUMBER,
       'cust name' AS CUSTOMER_NAME,
       DATE_CODE,
       COUNT (1) call_count,
       COUNT (DISTINCT CALLEDNUMBER) UNIQ_B,
       ROUND (COUNT (DISTINCT CALLEDNUMBER) / COUNT (DATE_CODE), 2)
DIVERSITY,
       CEIL (
           SUM (
               ( TO_DATE (SUBSTR (RELEASETIME, 1, 14),
'yyyymmddhh24miss')
               - TO_DATE (SUBSTR (ANSWERTIME, 1, 14),
'yyyymmddhh24miss'))
               * 24
               * 60
               * 60)
           / 60)
       DURATION
FROM DWH_BROADSOFT.ST_CDRBROADSOFT_IMPORT@exae
WHERE DATE_CODE >= '20250322'
      AND DIRECTION LIKE 'Originating'
      AND ( ( TO_DATE (SUBSTR (RELEASETIME, 1, 14), 'yyyymmddhh24miss')
              - TO_DATE (SUBSTR (ANSWERTIME, 1, 14), 'yyyymmddhh24miss'))
              * 24
              * 60
              * 60) > 0
GROUP BY CALLINGNUMBER, DATE_CODE
ORDER BY DATE_CODE ASC;

```

STEPS:

- 1- Run the first script to get the daily summary usage for the E1 in used by modifying the DATE_CODE to the desired date.
- 2- Export those records for the respective E1 to the sixth spreadsheet of the template excel file named below

DATE	DoW	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
50928190090	Test SIP Digicel					356			
50928190093	Test SIP Digicel								
50928190150	SHIPPEX	3,706	911	1,521	1,759	2,778	814	1,357	4,146
50937007449	Test Digicel								
50928190100	DINASA	40							

Once done, we observe the trend for any high traffic and if there is new E1 generating traffic. If so, we notice this high usage observed for the date and follow up with the concerned person to reach out this customer E1 to know the reason of this increase. Also to help us get the name of the new E1 customer.

- 3- Run the second script to check their diversity and export the record to the seventh spreadsheet of the template excel file named below by consider the ones with highest usage and diversity greater or equal to 0.75.

CALLINGNUMBER	CUSTOMER_NAME	DATE_CODE	CALL_COUNT	UNIQ_B	DIVERSITY	DURATION
50928190150	SHIPPEX	20221223	12	9	0.75	2,272
50928190093	TEST SIP DIGICEL	20221223	9	9	1.00	356
50928190093	TEST SIP DIGICEL	20221223	7	7	1.00	222

- 4- We can get CDRs for any suspicious high usage by using the below script to see if the calls were local or Intl.

```
***** BROADSOFT E1 CDRs *****/

SELECT date_code,
       time_code,
       callingnumber,
       CALLINGPRESENTATIONINDICATOR,
       DIRECTION,
       TYPE_,
       NETWORKCALLTYPE,
       CALLEDNUMBER,
       STARTTIME,
       ANSWERTIME,
       RELEASETIME,
       ( TO_DATE (SUBSTR (RELEASETIME, 1, 14), 'yyyymmddhh24miss')
        - TO_DATE (SUBSTR (ANSWERTIME, 1, 14), 'yyyymmddhh24miss'))
* 24
* 60
* 60/60
       DURATION
FROM DWH_BROADSOFT.ST_CDRBROADSOFT_IMPORT@exae
WHERE date_code >= '20221221'
AND DIRECTION LIKE 'Originating'
AND ( TO_DATE (SUBSTR (RELEASETIME, 1, 14), 'yyyymmddhh24miss')
      - TO_DATE (SUBSTR (ANSWERTIME, 1, 14), 'yyyymmddhh24miss'))
* 24
* 60
* 60/60 > 0;
```