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:

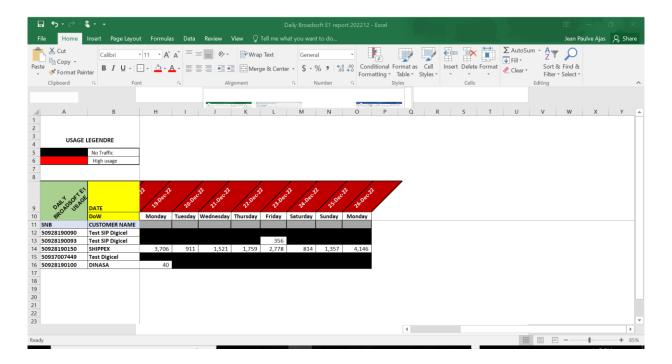
SCRIPTs:

```
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'))
               * 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;
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
          DATE CODE >= '20250322'
       AND DIRECTION LIKE 'Originating'
        AND ( TO_DATE (SUBSTR (RELEASETIME, 1, 14), 'yyyymmddhh24miss')
               - TO DATE (SUBSTR (ANSWERTIME, 1, 14), 'yyyymmddhh24miss'))
            * 60
            * 60) > 0
GROUP BY CALLINGNUMBER, DATE CODE
ORDER BY DATE CODE ASC;
```

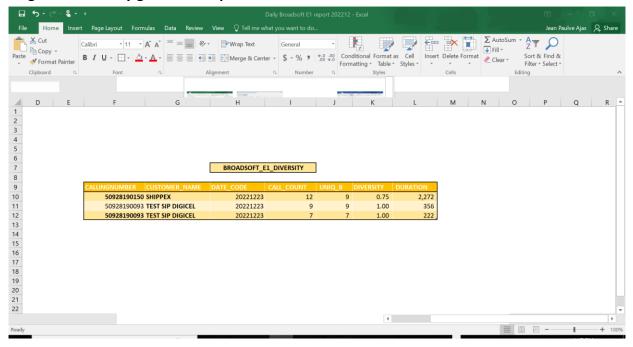
STEPs:

- 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



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.



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;
```