

DAILY DIGICEL E1 CUSTOMER REPORT

This report is done to monitor all Digicel E1s traffic to prevent any fraudulent activity or bypass. Below are the scripts used to check daily Digicel E1s traffic summary and their diversity.

SCRIPTS:

```

/***** Daily Digicel Els summary usage *****/

SELECT DISTINCT CALLINGPARTYNUMBER CLI,
                DATE_CODE,
                COUNT (1) call_count,
                COUNT (DISTINCT CALLEDPARTYNUMBER) UNIQ_B,
                SUM (chargeableduration) / 60 duration
FROM cdrmsc.st_cdrmsc_isdn@exae
WHERE DATE_CODE >= '20221223'
      AND call_type LIKE 'ISDN'
      AND (chargeableduration) / 60 > 0
      AND CALLEDPARTYNUMBER NOT LIKE '50937000000'
GROUP BY DATE_CODE, CALLINGPARTYNUMBER
ORDER BY DATE_CODE ASC;

/***** Daily Digicel Els Diversity *****/

SELECT callingpartynumber CLI,
       date_code,
       COUNT (1) call_count,
       COUNT (DISTINCT CALLEDPARTYNUMBER) UNIQ_B,
       COUNT (DISTINCT CALLEDPARTYNUMBER) / COUNT (date_code) DIVERSITY,
       SUM (chargeableduration) / 60 duration
FROM cdrmsc.st_cdrmsc_isdn@exae
WHERE date_code >= '20221223'
      AND call_type LIKE 'ISDN'
      AND (chargeableduration) / 60 > 0
      AND CALLEDPARTYNUMBER NOT LIKE '50937000000'
GROUP BY callingpartynumber, date_code
ORDER BY date_code ASC;
```

STEPS:

- 1- Run the first script to get daily summary usage for all Digicel E1s by modifying the DATE_CODE to the appropriate date.

- Export the data and treat it date by date for each E1 by using the template excel file named below

USAGE LEGENDRE

- No Traffic
- New E1 assigned to CCTECH For COVID-19
- High usage

DATE	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
28100					54	29	34		47
41100									
61100									
71100			41	45	52	47			60
201400									
281400									
509200	13	119	133	103	109	90	68	49	45
2812300		3	13	13	10	1	27		2
2812500									
2812700									
2814800			0			5			
2815600									
2815800						0	2	3	0
2992100		294	226	214	279				158
28101000		231	138	315	257	212	122	49	98
28121900	91	106	253	156	177	64	26	10	45

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.

- Run the second script to check their diversity and export the record to the template excel file named below by consider the ones with highest diversity ≥ 0.75 and usage greater than 100K.

CLI	CUSTOMER_NAME	DATE_CODE	CALL_COUNT	UNIQ_B	DIVERSITY	DURATION
28129000	CANADA	20221225	55	46	0.84	139
5092998600	ACCESSHAITI	20221225	25	21	0.84	79
2812052600	HAINET	20221225	23	18	0.78	67
28101000	CAMHU	20221225	109	96	0.88	49
28121900	OFATMA	20221225	6	5	0.83	10

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

```
SELECT DATE_CODE,  
       TIME_CODE,  
       CALLINGPARTYNUMBER,  
       CALLEDPARTYNUMBER,  
       CHARGEABLEDURATION / 60 DURATION  
FROM cdrmsc.st_cdrmsc_isdn@exae  
WHERE DATE_CODE = '20221220'  
AND CHARGEABLEDURATION > 0  
AND call_type LIKE 'ISDN'  
AND CALLINGPARTYNUMBER IN ('2814015600')  
AND CALLEDPARTYNUMBER NOT LIKE '509%'  
ORDER BY DURATION DESC;
```