

NRT+ Fraud Alert(IMSI)

This is an alert received from NextGen that mentions IMSIs are making Suspicious call (hot number traffic (voice, data, sms) to some destination while roaming into another Network. Below are the scripts and different steps followed to investigate this case if it's related to a Digicel Haiti IMSI range.

STEPS:

- 1- Once received the mail Fraud Alert IMSI, first identify if it's a Digicel Haiti IMSI range and secondly run the below script with the IMSI.

This query allow to retrieve the msisdn.

```
SELECT DISTINCT MSISDN, IMSI
FROM DWH_HLR.ST_HLR_IMPORT@EXAE
WHERE date_code >= TRUNC (SYSDATE - 3)
AND imsi IN ('');
```

- 2- Run below query on CCN with msisdn to check:

- check roamin position
- check sgsnaddress to choose roaming
- check location
- check the volume
- check if it is main account or DA
- if it is Dedicated Account check if the plan bought allows to do data in the location found

Fields to check and values meaning

```
ROAMINGPOSITION = 1 - Voice roaming
SERVICEIDENTIFIER =0 voice local
SERVICEIDENTIFIER =4 sms
ROAMINGPOSITION = 20 - sms roaming
(Data roaming is based on SGSN address
SGSNADDRESS '%200.113.210%'
SGSNADDRESS '%200.113.211%' Local usage- anything else aside this
is roaming
```

```
/***** DATA CDRs from CCN *****/
```

```
SELECT DATE_CODE,
TIME_CODE,
SUBSCRIBERNUMBER,
CALLINGPARTYNUMBER,
CALLEDPARTYNUMBER,
LOCATIONAREACODE,
LOCATIONMCCMNC,
ROAMINGPOSITION,
```

```

SERVICEIDENTIFIER,
TOTALOCTETSUNIT1,
SERVICECLASSID,
ACCOUNTVALUEBEFORE,
ACCOUNTVALUEAFTER,
DEDACC1ID,
DEDACC1VALUEBEFORE,
DEDACC1VALUEAFTER,
DEDACC1CHANGE,
GGSNADDRESS,
SGSNADDRESS,
SERVICEOFFERINGS,
ACCUMULATEDCOST,
ACCOUNTVALUEDEDUCTED,
AGGREGATEDVALUEAFTER AS RATE
FROM CCN.ST_CDRCCN_IMPORT@EXAE
WHERE DATE_CODE BETWEEN '20250130' AND '20250131' -- AND
SERVICEIDENTIFIER > 4
AND CALLINGPARTYNUMBER IN (
    ''
)
ORDER BY 1 DESC, 2 DESC;

```

3- if nothing is found in CCN we should check in GGSN using the query below.

```

SELECT DATE_CODE,
TIME_CODE,
MARKET_ID,
SERVEDIMSI,
GGSNADDRESS,
CHARGINGID,
SGSNADDRESS,
ACCESSPOINTNAMENI,
PDPTYPE,
SERVEDPDPADDRESS,
DATAVOLUMEGPRSUPLINK,
DATAVOLUMEGPRSDOWNLINK,
DURATION,
APNSELECTIONMODE,
SERVEDMSISDN,
CHARGINGCHARACTERISTICS,
SGSNPLMNIDENTIFIER,
SERVEDIMEISV,
USERLOCATIONINFORMATION,
FILENAME,
FILENAME_ORIG,
FILENAME_EMM,
DATE_LOADED
FROM DATA.ST_EGSN_IMPORT@EXAE
WHERE DATE_CODE BETWEEN '20250113' AND '20250114' AND SERVEDIMSI IN
('');

```

if session is found check if customer has balance (minsat).

