

Category: OSINT

Challenge: Find the Tower

Write-up:

We are given a file that contains three parameters, eNB ID, MCC, and MNC. We need to find the latitude and longitude of that specific cell tower. After doing some research about MNC and MCC, one can access an MNC MCC list.

<https://cellidfinder.com/mcc-mnc>

When we search the parameters given to us, one can understand that those MCC and MNC ID's are for Turk Telekom in Turkey.

Turkey				
MCC	MNC	Network	Operator or brand name	Status
286	1	Turkcell Iletisim Hizmetleri A.S.	Turkcell	Operational
286	2	Vodafone	Vodafone	Operational
286	3	Turk Telekom	Turk Telekom	Operational
286	4	Ayccell	Ayccell	Inactive

After searching for a cell map, one can reach a website called cell mapper.

After figuring out what those values are, we can quickly get the cell tower's location by looking at the <https://www.cellmapper.net/> website.

First of all, we are selecting Turk Telekom; after that, we are given all of the cell towers for Turk Telekom. And now, entering an eNB ID should provide us the exact location of that cell tower.

Select Provider

Provider

Turk Telekom - 2863

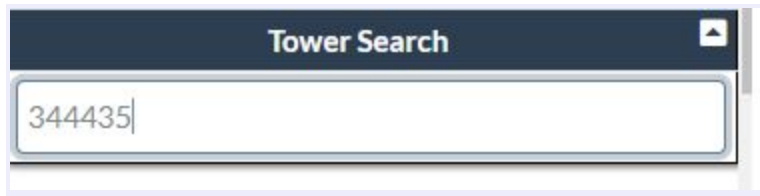
Network

4G - LTE

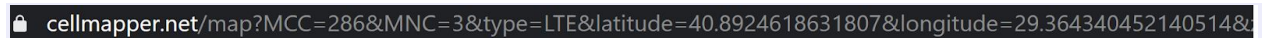
Band

All Bands

We are entering the tower ID to the website and search.

A screenshot of a web application titled "Tower Search". It features a dark blue header with the title and a small upward arrow icon. Below the header is a white search input field with a light blue border, containing the text "344435".

One can see the latitude and longitude in the URL

A screenshot of a web browser's address bar. The URL is "cellmapper.net/map?MCC=286&MNC=3&type=LTE&latitude=40.8924618631807&longitude=29.364340452140514&". The address bar has a lock icon on the left.

Flag is: SUCTF{40.9,29.3}