# RFINE FOR STEEN Art Mike Jones "H4unt3d Hacker"





#### Who am I?

- Former Hacktivist
- Penetration Tester
- Security Researcher
- Podcast Host "H4unt3d Hacker"
- Founder of "The H4unt3d Hacker Community"
- Former SIGINT Operator US DoD
- Former FBI Informant
- Knight Ink Media screenplay writer "ransom"
- MDR Manager / Red Team / IR
- Board member (UAE and London)





#### SIGINT

In God we trust. Everyone else we monitor.

#### What is RF

- Radio Frequency is a band or bands used for telecommunications.
- Electronic emissions is energy put off from electronic devices (leak)
- Key fobs, wifi, BT, smart meters, electronic devices
- Radio transmissions
  - Voice
  - Video
  - Data

## Types of Antennas

- Array Antennas
  - Yagi
- Wire Antennas
  - Dipole
  - loop
- Reflector Antennas
  - Parabolic



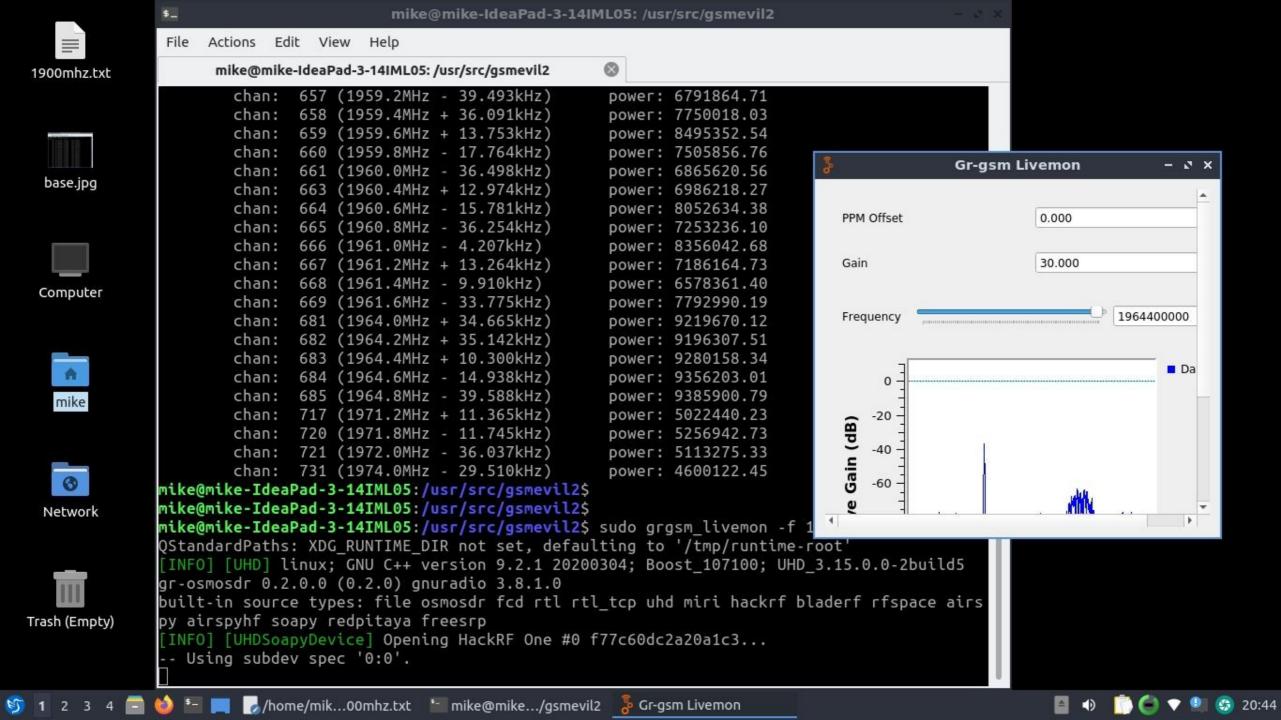
## Hackrf One & DragonOS

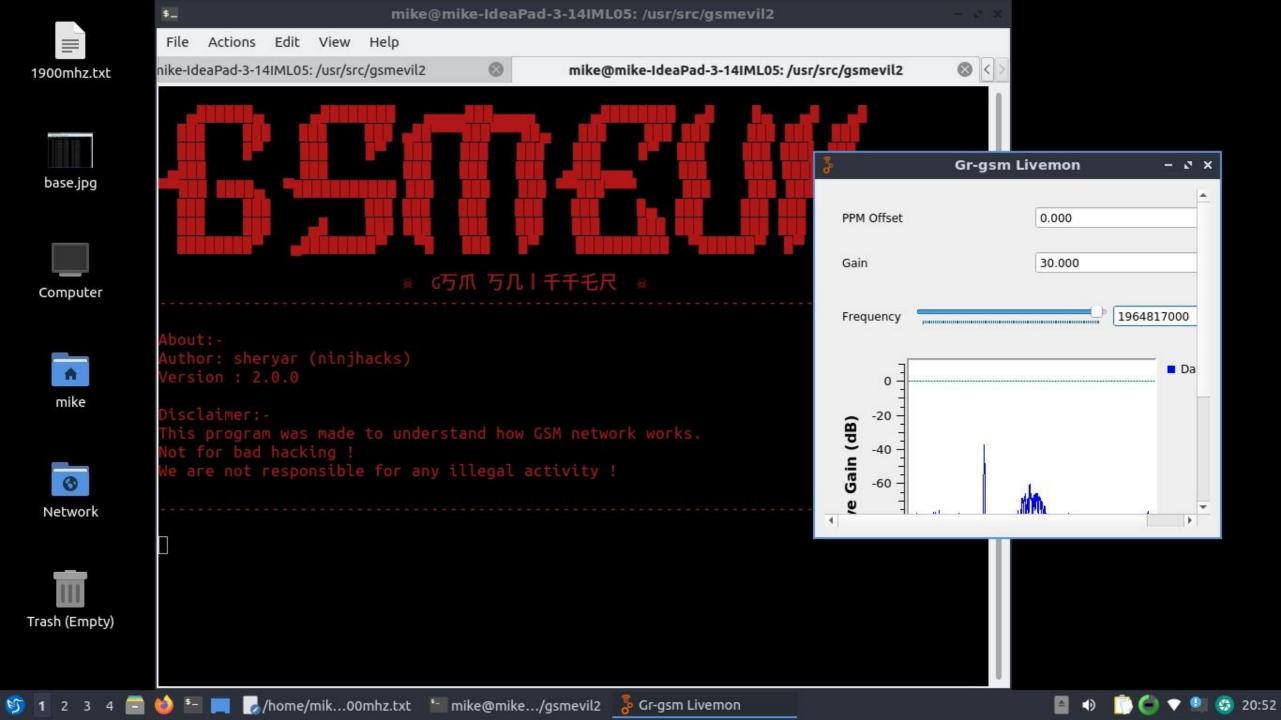
- GSM Scanning for base stations (multiple frqs)
- Grgsm-Livemon scrolling through freqs to find active voice freqs
- Decoding for IMSI and SMS
- Recording of audio and text
- Identifies phone numbers and carriers based on MNC number

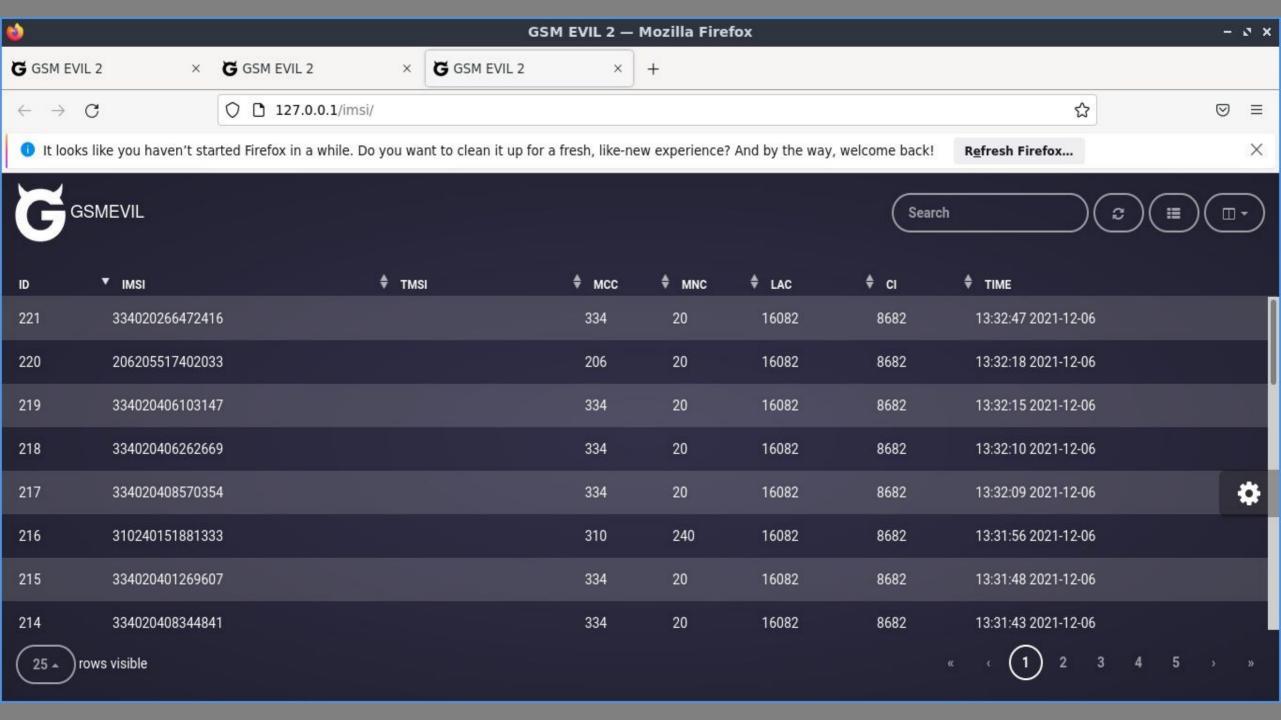
## **GSM** Details

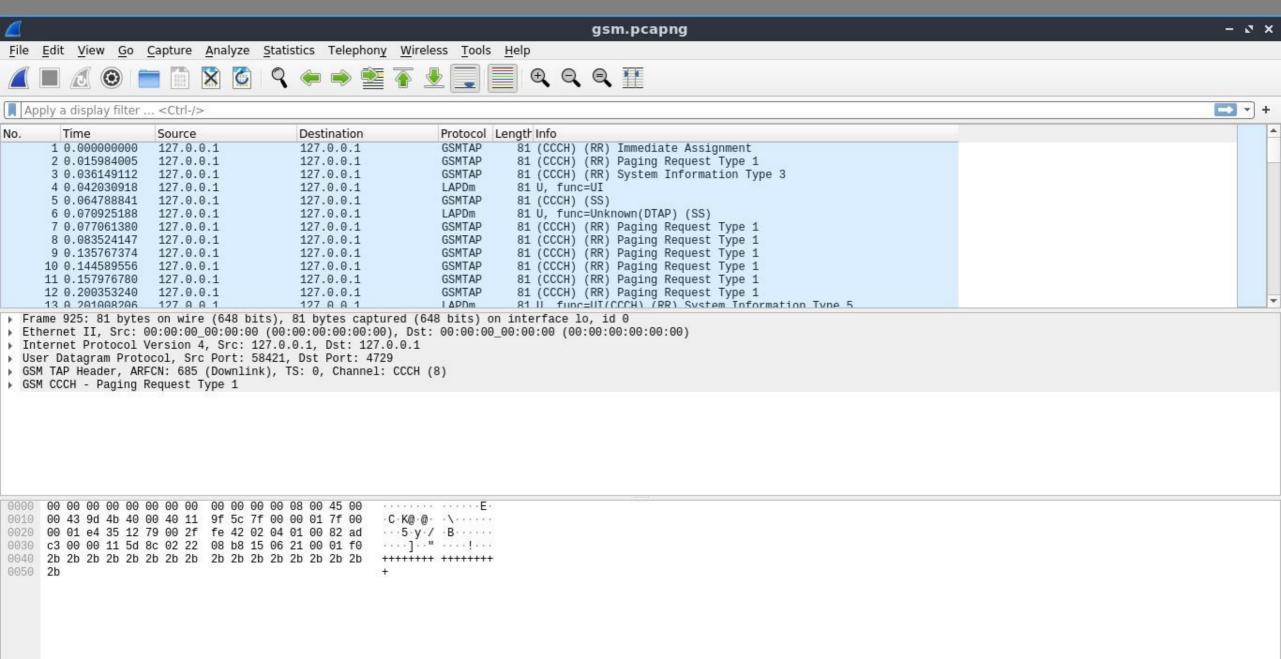
- MCC—Mobile Country Code
  - https://cellidfinder.com/mcc-mnc
- MNC—Mobile Network Code (ATT, Tmobile etc)
- Cell ID—Bast station Transciever
- LAC—Location Area Code

 GSMTAP--pseudo-header format, used to encapsulate frames from a GSM Um (air) interface into UDP/IP packets. It serves a similar purpose to that of radiotap in the 802.11 world.









#### System Bus Radio

This program transmits radio on computers / phones without radio transmitting hardware.

#### Why?

Some computers are intentionally disconnected from the rest of the world. This includes having their internet, wireless, bluetooth, USB, external file storage and audio capabilities removed. This is called "air gapping". Even in such a situation, this program can transmit radio.

Publicly available documents already discuss exfiltration from secured systems using various electromagnetic radiations. This is documented in the TEMPEST guidelines published by the US National Security Agency and the US Department of Defense. This project simply adds to that discussion.

#### How to use it

NEW: Try it in your browser, click here: http://fulldecent.github.io/system-bus-radio/

Enter the Using \_mm\_stream\_si128 folder and compile using make . (There are also other flavors you can make and try in different folders!)



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