

Case Study Assignment: Exploring Field Test Mode on Smartphones

IMEI (International Mobile Equipment Identity):

A unique 15-digit number assigned to every mobile phone device.

Importance: It identifies your phone on a mobile network and helps track it if lost or stolen. Carriers use IMEI to block or blacklist devices.

MAC Address (Media Access Control Address):

A unique identifier assigned to the network interface (like Wi-Fi or Bluetooth) of a device.

Importance: It helps with identifying and managing devices on a local network, such as in Wi-Fi networks. Every device has a different MAC address for security and tracking within the local network.

IP Address (Internet Protocol Address):

A unique address that identifies a device on the internet or a local network.

Importance: It's essential for devices to communicate over the internet. Each device gets a public or private IP depending on its role in the network (e.g., public-facing web server vs. a home network device).

Product name Galaxy A23

Model name SM-A235F/DS

Serial number RZ8T8026AVM

IMEI (slot 1) 357688952368281

IMEI (slot 2) 358975842368285

Version

AP : A235FXXS4CWK2

CP : A235FXXS4CWK2

CSC : A235FODM4CWH1

Model :SM-A235F/DS

ServiceMode



DEBUG INFO : 1 1 9 124 2520

HPLMN(405-869) sim_state(1)

Slot 2 with DDS

Serving PLMN(405-869) - LTE

NW sel mode : Auto

EMM(registered-0) TAC(65535)

GUTI:405-869-180-3-e2e073c4

LTE RRC:CONN BAND:5 BW:10

Earfcn: 2520, PCI: 108

RSRP:-103 RSRQ:-12 SNR:2.6

RREReqCause : --

paging_cycle : 1280 ms

CA-Not Config 0 0

UL CA Not Configured

PA STATE:0(ET),HDET:0

NETWORK : UNBLOCK

FINAL IMEI Certi: PASS

Unknown 0

AJB Init_buf:0 ms

ASDiv : NOT SUPPORTED

WAKEUP_INFO: 0

State: CONNECTED
SSID: "Pikachu"
AP MAC: fa:f2:93:98:06:93
BSS CH: 6 [Frequency : 2437MHz]
WSEC: [WPA2-PSK-CCMP][RSN-PSK-CCMP][ESS]
Hi/Op: Open
RSSI: -59
Modulation: 256-QAM
CR: 3/4
PER: %
TX: 13dBm
Link Speed: 86Mbps
NETWORK: 802.11ac
IP: 192.168.99.80
MAC: b6:cc:ef:08:99:3e
MAC: b6:cc:ef:08:99:3e
P2P Group mode: null
P2P Freq: null
P2P Peers: null
P2P IP Addr: null
MHS MAC: null
WiFi Sharing: Lite
Auto Hotspot: Full
IWC: QAI: 1, SS: false, Q: 4.26 / 2.00 / 0.00

PING TEST 0.0.0.0

IP Ping Result: