#### ANDROID FORENSICS INVESTIGATION REPORT

Title: Digital Forensics Analysis of an Android Device Image

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#### 1. Introduction

This report presents the outcome of a digital forensic investigation performed on a provided Android image file. The analysis was conducted using forensic tools to extract and examine digital artifacts such as SMS messages, call logs, contact lists, browser history, application data, and deleted files. The objective of the investigation was to simulate a real-world mobile forensic examination and document findings in a professional and structured manner.

# 2. Tools and Methodology

Tool Used:

Autopsy

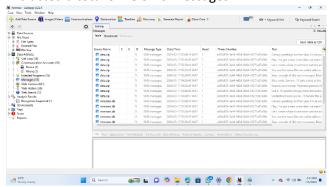
## Methodology:

- Loading the Android Image: The Android image file was loaded into the forensic tool.
- Artifact Extraction: Categories of interest were examined, including
  - Communications (SMS, Call logs)
  - Internet Activity (Browser history)
  - Application Usage (App logs, cache)
  - Media (Photos, Deleted files)
  - Financial/Privacy-sensitive data (crypto wallets)
- Documentation: Screenshots were captured and findings were documented

## 3. Findings

## 3.1 SMS Messages

## Extracted a total of 18 SMS Messages



**Last Message Sent:** 2024-03-17 "Understood omo iya mi. I'll handle the promotional activities and monitor for any potential leaks. This one go be bang Inshallah"

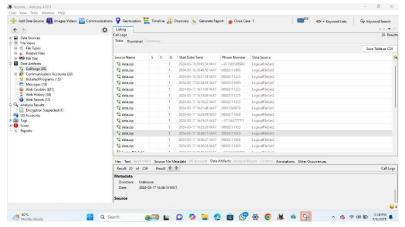
Frequent Contacts: 08032111133 and +971543777711

**Suspicious Content:** Some messages contained phrase like "Crypto Wallet, Scam, Fake Investment" which is saying a fake investment plan be created to scam low value people.

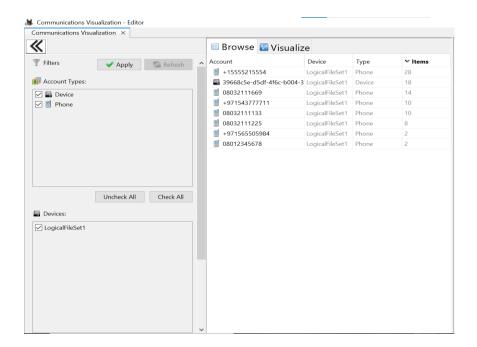
## 3.2 Call Logs

**Total Call Entries: 28** 

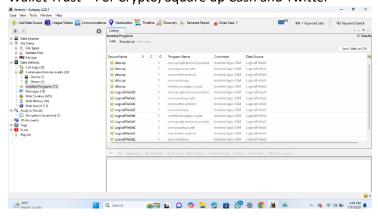
**Top Contacted Number:** 08032111669 **Last Call Made:** 2024-03-17 16:36:28 WAT



3.3 Contacts: There are seven (7) contacts with no visible names.



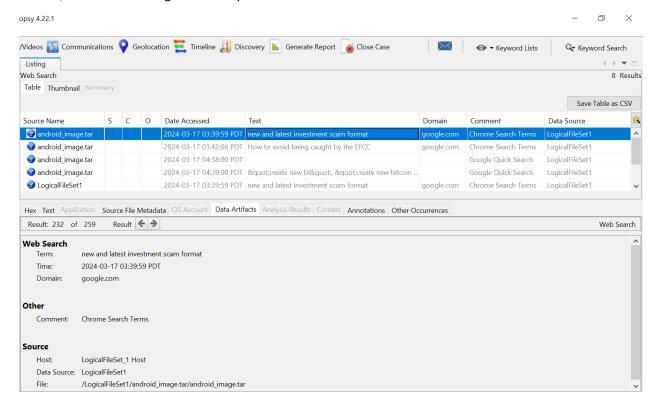
3.4 Application Usage History: The following apps were accessed - YouTube, WhatsApp, Wallet Trust – For Crypto, Square up Cash and Twitter



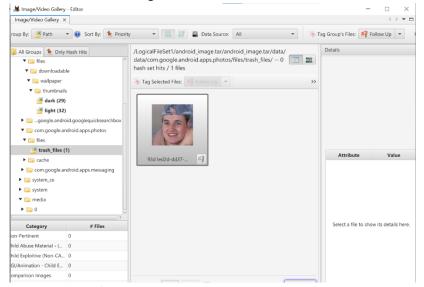
3.5 Browser History: Search terms and visited URLs were recovered and below are the visited domains. Browsers Detected: Chrome, Nairaland, Businessday

Top Sites Visited: https://google.com, https://nairaland.com, https://businessday.ng

Search Queries: "How to know if EFCC is tracking you", "New and latest investment scam format," "Scared of being arrested by EFCC"



3.5 Deleted Content: 1 image was recovered from thrash



3.6 Crypto Wallets/Financial Data: There are no wallet recovery phrases or credential discovered

### 4. Conclusion & Recommendations

The forensic analysis of the Android device image successfully retrieved valuable digital evidence, including communication records, application activity, browsing behavior. These findings demonstrated the effectiveness of forensic tools in extracting sensitive and actionable data from mobile devices.

## **Recommendations:**

- Device encryption and application-level security should be enabled to protect user data
- Users should clear cache, browsing data and use privacy-focused apps where necessary
- Investigators should maintain chain-of-custody protocols and use write-blocking techniques in real investigations.