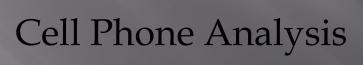


CYBER EVIDENCE

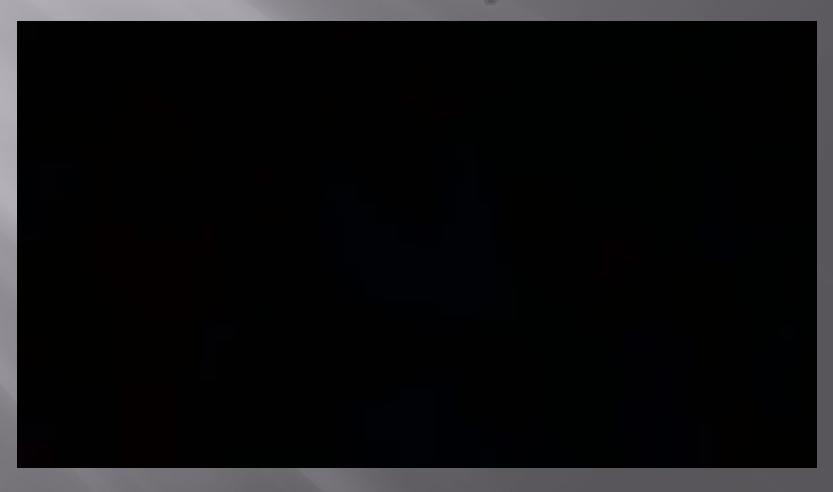






Trooper Joel Gagne Middlesex State Police Detective Unit

Cell Phones Today



Digital Evidence



Cell Phone Analysis

- Often referred to as a "cell phone dump"
- Comprehensive collection of data stored on the mobile device as well as sim card and sd card
- Several companies offer software for this process including Cellebrite, Oxygen and Mobile Forensics Central
- Data is then converted by the examiner into a report format

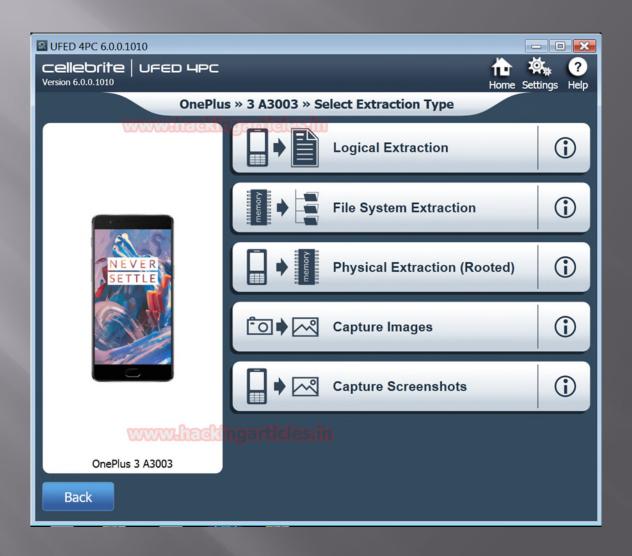
Extraction Process





Cellebrite UFED (Universal Forensic Extraction Device)

Extraction Types



Analysis Report

- Report can be generated in a variety of formats including PDF, HTML and EXCEL
- If you are receiving a report, it will be a comprehensive report, however, specific reports can be generated from the analysis by the examiner
 - Content between specific contacts
 - Limited to a certain time frame

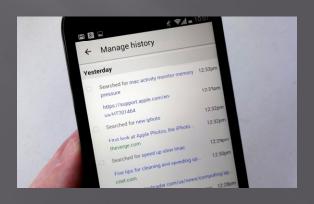
Report Information

Туре	Included in report		Total	
Calendar	164	(5 Deleted)	164	(5 Deleted)
III Call Log	127	(3 Deleted)	127	(3 Deleted
Chats	64	(1 Deleted)	64	(1 Deleted
Contacts	111	(1 Deleted)	111	(1 Deleted
Cookies	1061	(21 Deleted)	1061	(21 Deleted
Installed Applications	66		66	
Locations	1336		1336	
MMS Messages	455	(1 Deleted)	455	(1 Deleted
Notes Notes	19	(7 Deleted)	19	(7 Deleted
SMS Messages	8425	(2 Deleted)	8425	(2 Deleted
	32931	(9 Deleted)	32931	(9 Deleted
user Accounts	1		1	
voicemail •	81		81	
Web Bookmarks	9		9	
Wireless Networks	20		20	
🚳 Data Files	4311		4311	
Audio	82		82	
Configurations	469		469	
Databases	90		90	
Images	3632		3632	
Text	10		10	
Videos	28		28	
Activity Analytics	222		222	
Analytics Phones	164		164	

Obvious vs the not so obvious

- Obvious
 - SMS
 - MMS
 - Calls
 - Chats
 - Contacts
- Things to consider
 - Search history
 - Location
 - Audio Files





Examine your phones and READ YOUR REPORTS!

- Examiner may not be part of your case and is not searching the report for your information
- After the analysis is performed, take the opportunity to examined the mobile device
- Temporary files my fall into a different location then expected
 - Audio
 - Video

Anticipate Limitations

Constant development of new phones



- Daily Addition of new applications
 - Causing connection problems with software

Adapting with technology

- Use of alternative messaging apps
 - Facebook messenger
 - Snapchat
 - Kik
 - Whatsap
- Taking the victims phone



Passwords



