# Case Report National Gallery DC

Tracy's iPhone [2012-07-15-National-Gallery]

# **Table of Contents**

### Case Report

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**Table of Contents** 

**Executive Summary** 

**Equipment and Tools** 

**Details of Tracy's iPhone** 

**Evidence to Establish Personas** 

Evidence relating to theft of valuable stamps

Evidence relating to defacement of museum art

**Plot Timeline** 

**Conclusion** 

Appendix A: Correspondence Evidence

Appendix B: WiFi and GPS Location Information

## **Executive Summary**

On January 21, 2016, Digitech Inc. was called in to assist the National Gallery, Washington D.C. (NGDC) case involving the conspiracy associated with the theft of valuable stamps and defacing of museums are at the NGDC.

#### i. Basic facts of the case

• Alex is seeking to embarrass America and damage public relations by defacing Foreign Art, belonging to Majavia and currently on display in the National Gallery during the month of July.

- Alex contacts Carry to recruit her to assist with his cause. Also, Alex is sending Krasnovian militants to Washington DC to carry out the deed.
- Carry is to develop the plan to get them into the museum with the tools needed to damage the artwork.
- Carry contacts Tracy who works as a supervisor at the National Gallery and is an acquaintance of Carry.
- Tracy has been talking with her brother about stealing stamps from the National Gallery.
   Information about the plot to take the stamps will be on her computer, personal phone and home computer.

#### ii. Suspects

- <u>Alex</u> he is seeking to deface Foreign Art in efforts to embarrass America and damage public relations; has close family ties to the family of Carry-whom he recruits to help him. Both are from Krasnovia.
- <u>Carry</u> is from Krasnovia and is a supporter of Krasnovia; she is an acquaintance to Tracy; has been recruited by Alex; is developing the plans to get into the museum and stage a fake "flash mob"; is technically savvy in that she knows about steganography tools and encryption. She hides many of her correspondence in steg files and encrypted files; has information about the plot stored on her various devices.
- Tracey she works as a supervisor at the National Gallery and is an acquaintance to Carry.
- <u>Joe</u> currently going through a divorce with Tracy; financial well-off; recently installed a key logger on the MacBook Air to keep track of Terry's (his daughter) online behavior; motivated by the divorce- will seek to utilize the key logger to spy on both Tracy and Terry; used to have an account on the family MacBook Air-- home folder may have been preserved.
- Pat is the brother to Tracy and uncle to Terry; is a corrupt DC police officer/detective of the Enforcers Bureau; not an outright criminal but walks the line closely.
- As part of the investigation, Tracy's iPhone was taken into custody.
- Digitech, Inc. was tasked with investigating evidence relevant to the aforementioned conspiracy.

As described fully in the report, Digitech, Inc. made the following findings.

#### The following evidence was confiscated:

- Carry's Tablet
- Tracy's iPhone
- Tracy's External Hard Drive
- Tracy's MacBook Air
- Carry's Phone

## **Equipment and Tools**

Kali Linux Terminal(within Microsoft Azure VM)

- Autopsy
- SQLite Browser

# Details of Tracy's iPhone

Case Name: 2012-07-15-National-Gallery

Case #: 1EZ215-P

## Details of Tracy's iPhone

Name	Findings	Location in iPhone image file	
Model	iPhone1,2	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/AppleSupport/general.log	
Host Name	Tracy Sumtwelve's iPhone	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/lockdownd.log1	
OS Version	iPhone OS 4.2.1 (8C148)	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/AppleSupport/general.log	
Install Time	6/6/2012 12:03:28 -0700	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/AppleSupport/general.log	
User Email	tracysumtwelve@gmail.com, tracy.sumtwelve@nationalgallerydc.org	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/mobile/Library/Mail	
Phone Number	1 (703) 340-9661	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/lockdownd.log1	
Serial Number	86004482Y7H	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/AppleSupport/general.log	
ICCID	89014103255195342366	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/logs/lockdownd.log.1	
IMEI	012021003735398	/img_tracy-phone-2012-07-15- final.E01/vol_vol5/root/Library/Lockdown/activati on_records/wildcard_record.plist	
MD5 Hash	34c4888f095dc3241330462923f6fea5		

SHA256 Hash

71aed05a86a753dec4ef4033ed7f52d6 577ccb534ca0d1e83ffd27683e621607

```
root@kali: ~/casedata/2012-07-15-National-Gallery/Export/35027-logs
                                                                                                                      • •
    Edit View Search Terminal Help
Mon Jun 25 10:03:54 2012 pid=16 (0x3e7518b8) deliver_baseband_ticket: Storing propose activation ticket in the data ark
Mon Jun 25 10:03:54 2012 pid=16 (0x3e7518b8) determine activation state old: The activation state has not changed.
Mon Jun 25 10:03:54 2012 pid=16 (0x3e7518b8)
                                             lookup baseband info old: The SIM status has changed
Mon Jun 25 10:03:54 2012 pid=16 (0x3e7518b8)
                                              extract record_identifier: Could not extract ICCID from account token
Mon Jun 25 10:03:55 2012 pid=16 (0x3e7518b8)
                                             load_activation_records: Could not extract ICCID from record
   Jun 25
          10:03:55 2012 pid=16
                                (0x3e7518b8)
                                             load activation records: This is a wildcard record
Mon Jun 25 10:03:55 2012 <u>pi</u>d=16 (0x3e7518b8) dealwith_activation: No unlock record. Looking for a care flag.
Mon Jun 25 10:03:55 2012 pid=16 (0x3e7518b8) dealwith_activation: No care flag. Looking for a record that matches the SIM.
Mon Jun 25 10:03:55 2012 pid=16 (0x3e7518b8) dealwith activation: Looking up the record for ICCID 89014<u>103255195342366</u>
Mon Jun 25 10:03:55 2012 pid=16 (0x3e7518b8) dealwith activation: No record for the SIM. Looking for wildcard.
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine activation state old: This device is a phone. It supports factory acti
vation.
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine_activation_state_old: The original activation state is Wildcard⊿ctivat
ed
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine activation state old: SIM status: kCTSIMSupportSIMStatusReady
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine activation state old: Removing previously issued activation ticket fro
m data ark
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine activation state old: No ICCID in the activation record
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine_activation_state_old: The record contains a wildcard ticket
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) deliver_baseband_ticket: SIM is not in operator locked state. Ignoring activatio
n ticket
Mon Jun 25 10:03:56 2012 pid=16 (0x3e7518b8) determine_activation_state_old: The activation state has not changed.
Mon Jun 25 10:04:01 2012 pid=16 (0x3e7518b8) set formated phone number: New phone number 1 (703) 340-9661 to insert into the
ark
Mon Jun 25 10:32:43 2012 pid=16 (0x3e7518b8) main: Starting Up
Mon Jun 25 10:32:54 2012 pid=16 (0x3e7518b8) lockstart_local: Build= 8C148
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) ping\_configd: Not setting host name, it already has one: Tracy Sumtwelve's iPhon
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) lookup baseband info old: The SIM status has changed
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) lookup baseband info old: Inserting an ICCID into the data ark. Triggering an ac
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) lookup baseband info old: Inserting an IMSI into the data ark. Triggering an act
ivation check.
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) lookup_baseband_info_old: Inserting baseband version into the data ark
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) lookup baseband info old: Inserting baseband bootloader version into the data ar
Mon Jun 25 10:32:57 2012 pid=16 (0x3e7518b8) _extract_record_identifier: Could not extract ICCID from account token
```

### Evidence to Establish Personas

This section establishes aliases, phone numbers, emails addresses associated with each person, and relationships between each individual.

#### Tracy:

Phone Number: (703) 340-9961

Personal Email: tracysumtwelve@gmail.com; coralbluetwo@hotmail.com

Work Email: tracy.sumtwelve@nationalgallerydc.org

Relationship: Accused; Ex-wife of Joe; Mother of Terry; Sister to Pat

Pat:

Phone Number: 571-308-3236

Email: perrypatsum@hotmail.com; patsumtwelve@gmail.com

Relationship: Brother; Tracey

Terry:

Phone Number: 703-829-6071

Email:

Relationship: Daughter of Accused

Joe:

Phone Number:

Email: joe.sum.twelve@gmail.com

Relationship: Ex-husband of Tracy; Father to Terry

Carry:

Phone Number: +1 202-725-2124

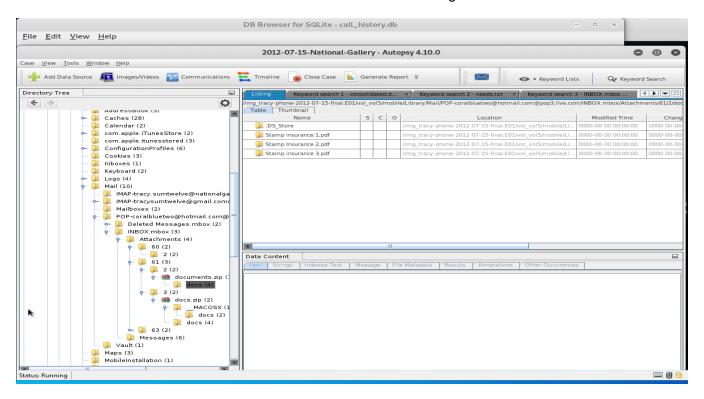
Email: carrysum2012@yahoo.com; coralbluetwo@hotmail.com

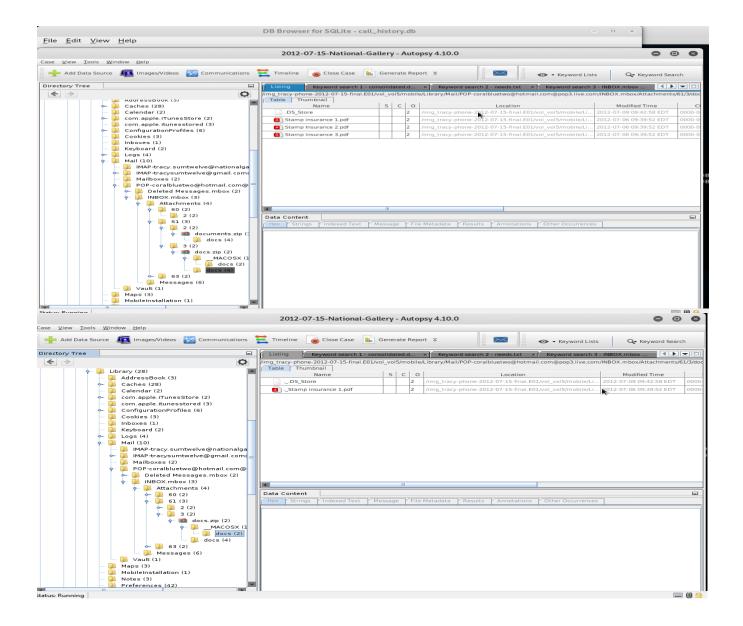
Relationship: Friend to Tracy

## Evidence relating to theft of valuable stamps

This sub-section provides details regarding the evidence found as it relates to the theft of valuable stamps.

- ARTIFACT 05 Pat unknowingly reveals that "Coral Blue" is Tracy (and her password)
- ARTIFACT 03 Pat (using the pseudonym "Perry"), Tracy (using the pseudonym "Coral"), and "King" discuss details regarding the heist, including materials needed
- ARTIFACT 02 The .PDFs in this attachment reveal the targets of the heist





## Evidence relating to defacement of museum art

 ARTIFACT 04 - Carry & Tracy discuss details on the flash mob, including sneaking Carry's tablet into the museum past the security guards. (Later to be confiscated for further museum art defacement evidence.)

## Plot Timeline

JUNE 19, 2012 - Pat & Tracy establish aliases.

JULY 02, 2012 - Tracy asks Joe for help paying Tracy's school tuition. Joe refuses unless Tracy is allowed to live with him.

JULY 09, 2012 - Tracy e-mails herself the insurance claims (which give their monetary value) of stamps.

JULY 10, 2012 6AM - Carry & Tracy discuss sneaking the tablet into the museum.

JULY 10, 2012 8AM - Pat propositions King to assist them in their heist.

JULY 11 - Carry plans to come in around 9.

JULY 11 - Tracy circles around the museum (suggests that Tracy may be waiting for Carry).

## Conclusion

Evidence found on Tracy's iPhone indicated the following:

In June, according to Artifact #01: Pat & Tracy begin to carry out the act of the stamp heist. They first send encrypted messages to each other via e-mail. In Artifact #02, Tracy attempts to disguise communications by e-mailing herself insurance claims of the stamps on July 09th, indicating her interest in the monetary value of the stamps. Artifact #03 validates the premise of the Prosecutor's accusation--Tracy & Pat (as well as their accomplice, King) planned to steal items from the museum.

In observing Artifact #05 (as well as other Artifacts, such as #04 and #06), it is clear that Tracy is having financial issues. Joe provides an ultimatum to Tracy --that either Terry lives with him or he will not pay for Terry's schooling. On July 3<sup>rd</sup>, Terry makes it evident, in Artifact #06, that she would prefer staying with her father if that meant being able to attend her school, Pruf Rock.

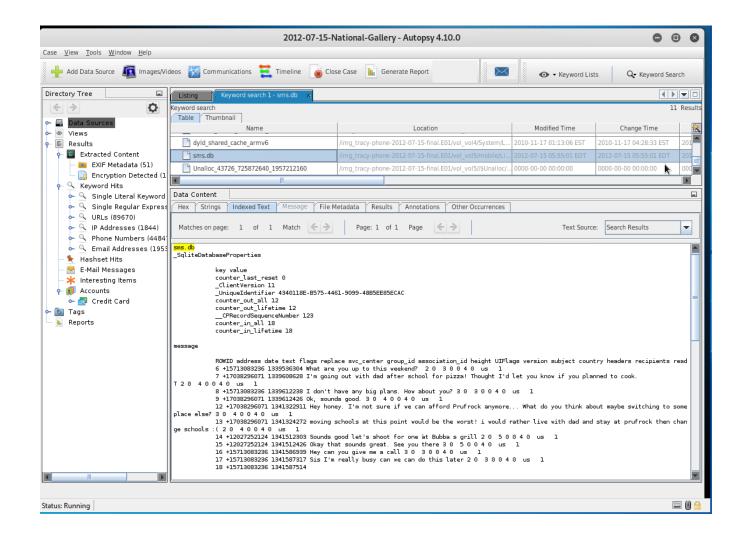
In addition to the heist, Tracy unknowingly became an accomplice to another serious crime. In Artifact #4, Carry explains to Tracy that she is planning a flash mob in the museum. Tracy agrees to help--after being given financial incentive--- by sneaking Carry's tablet into the museum, with knowledgeable disregard for museum security protocols. The tablet is now under investigation in the case regarding defacement of artworks.

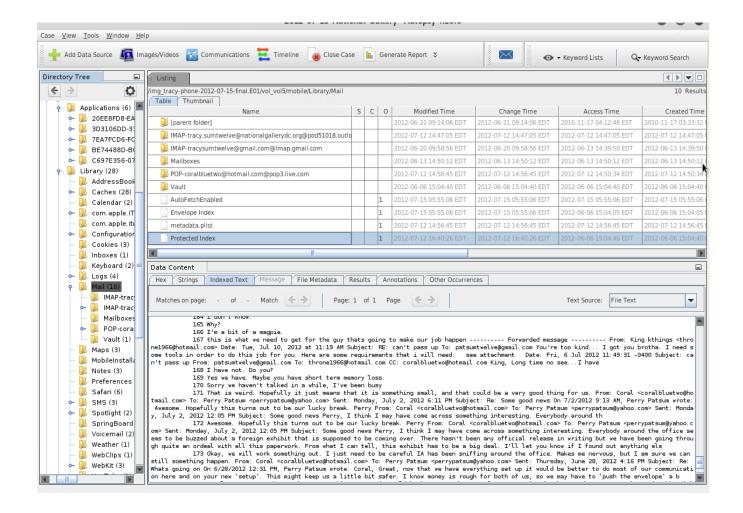
## Appendix A: Correspondence Evidence

## Correspondence Evidence

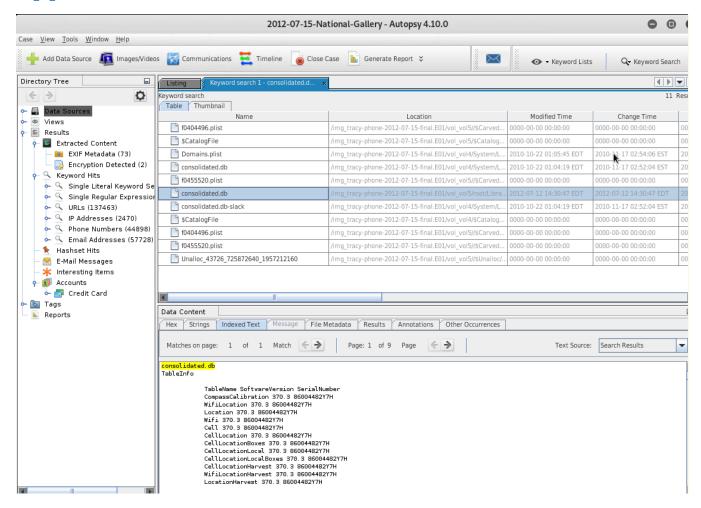
Master Timeline of NGDC

Artifact #	Timestamp	Header Information	Key Information	Evidence Location	
01	2012-06-19 14:39:04 -0700	Crazydave by the VMs	Possible message in music video attached to email.	/mobile/Library/Mail/	
02	2012-07-09 07:47:58 -0700	things	document.zip contains insurance of Stamps	/mobile/Library/Mail/	
03	2012-07-10 08:24:58 -0700	can't pass up	E-mail containing conversation featuring Pat, Tracy, and King implying illegal activity, as well as attached document of list of items explicitly mentioning illegal activity.	/mobile/Library/Mail/	
04	2012-07-10 06:29 PDT	Re: Long Time No See	Conversation between Tracy and Carry about sneaking Carry's tablet into the gallery passed the guards and organizing a "flash mob."	/mobile/Library/Mail/Protected Index & f0408520.plist	
05		n/a	Conversation between Joe & Tracy establishing probable motive for heist. Conversation between Pat & Tracy indicating their fake aliases.	/mobile/Library/Mail/Protected Index	
06			sms.db	/mobile/Library/SMS/	
07		consolidated.db	GPS locations	/root/Library/Caches/locationd/	





# Appendix B: WiFi and GPS Location Information



Location Information							
Artifact #	Timestamp	Header Information	Body	Map Screenshot			
07	3.61306882473715E8		38.88055896 -77.11553561				
07	3.61307043743548E8		38.88155686 -77.11480695				
07	3.63015762683134E8		38.88021904 -77.11561894				
07	3.63198767554628E8		38.88055533 -77.11455225				

