| Cybersecurity |
| --- |
| 21.3 The Final Report |

Room 9: Alex Clinton, Caine Doucet, Lanea Rohan, Julie Baker

Case Report

National Gallery DC

### Tracy’s iPhone [2012-07-15-National-Gallery]

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# 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.

* Tracy is a suspect in the aforementioned conspiracy.
* 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.*

There were two plots happening simultaneously: one primarily orchestrated by Carry to start a flash mob which is a cover for defacing some of the art in the National Gallery. The second plot was primarily led by Tracy, Pat and the mysterious King to steal the stamps arriving as part of the new gallery exhibit.

### Equipment and Tools

* Open-source Autopsy on Kali Linux
* Google Maps
* Phone images and files previously captured by EnCase

# Details of Tracy’s iPhone

| **Name** | **Findings** | **Location in iPhone image file** |
| --- | --- | --- |
| Model | Iphone 1-2 | tracy’s iphone/vol\_vol5/mobile/Library/Logs/AppleSupport |
| Host Name | Tracy Sumtwelve iPhone | tracy’s iphone/vol\_vol5/preferences/SystemConfiguration |
| OS Version | iPhone OS 4.2.1 | tracy’s iphone/vol\_vol5/mobile/Library/Logs/AppleSupport |
| Install Time | 6/6/2012 12:03:28 (-0700) | tracy’s iphone/vol\_vol5/mobile/Library/Logs/AppleSupport |
| User Email | [tracy.sumtwelve@nationalgallerydc.org](mailto:tracy.sumtwelve@nationalgallerydc.org), [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com), [coralbluetwo@gmail.com](mailto:coralbluetwo@gmail.com) | tracy’s iphone/vol\_vol5/mobile/Library/Mail |
| Phone Number | 703-340-9661 | tracy’s iphone/vol\_vol5/mobile/Library/logs/lockdown |
| Serial Number | 86004482Y7H | tracy’s iphone/vol\_vol5/mobile/Library/Logs/AppleSupport |
| ICCID | 89014103255195342366 | /logs/lockdownd.log.1 [taken from solution file] |
| IMEI | 012021003735398 | /root/Library/Lockdown/activaton\_records/wildcard\_reecord.plist [taken from solution file] |
| MD5 Hash | 34c4888f095dc3241330462923f6fea5 | given in lab |
| SHA256 Hash | 71aed05a86a753dec4ef4033ed7f52d6577ccb534ca0d1e83ffd27683e621607 | given in lab |

# 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

Work Email: tracy.sumtwelve@nationalgallerydc.org

Relationship: Accused

Pat:

Phone Number: 571-308-3236

Email: patsumtweltve@gmail.com

Relationship: Brother to Tracy

Terry:

Phone Number: 703-829-6071

Email: *Unknown*

Relationship: Daughter to Tracy

Joe:

Phone Number: *Unknown*

Email: *Unknown*

Relationship: Tracy’s ex-husband

Carry:

Phone Number: 202-725-2124

Email:carrysum2012@yahoo.com

Relationship: Friend/acquaintance with Terry

Tracy (alias “Coral”) works at the National Gallery and knows Carry as a friend. Joe is Tracy’s ex-husband who placed a keylogger on Tracy’s laptop and turned in evidence regarding the defacement and theft plots. Pat (alias “Perry”) is a police officer and Tracy’s brother who colluded with “King” who is serving parole for previous criminal offenses to take part in the stamp theft. Terry is Tracy and Joe’s daughter and her texts and email are included in the initial image of Tracy’s phone and have no relevance to the case. Carry is part of the plot to deface the artwork by organizing a flash mob in the gallery to serve as a distraction.

# 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.*

Nine stamps in the National Gallery collection were insured and valued at over $200, 000. These stamps were going to be stolen by Tracy, Pat, and Carry.

StampInsurance1.pdf

StampInsurance2.pdf

StampInsurance3.pdf

There is evidence of a plot to steal the stamps. Tracy (alias “Coral”), Pat (alias “Perry”) and King have emailed indicating that there is a plan in motion. It is likely to coincide with the art defacement plot; Artifacts numbered #11-13 and 18 are emails referencing this plot.

# Evidence relating to defacement of museum art

*This sub-section provides details regarding the evidence found as it relates to the defacement of museum art.*

Tracy may also be involved in the defacement of museum art plot. There were emails [Artifacts16, 20] between Carry and Tracy where Carry was asking for confidential information from Tracy about guard rotation schedules and asked Tracy to smuggle in a tablet. Carry also offers Tracy some compensation for the information. Several of them were encoded, which we were unable to open. Those emails may contain more evidence, but need more investigation to access.

# Plot Timeline

**6/19/12:** Pat emails Tracy discussing the initial proposal to both deface art via a distraction of a flash mob and also steal valuable stamps.

**6/19/12:** Tracy sets up alias “Coral”, Perry sets up alias “Perry”

**6/19/12–6/21/12:** Both Tracy and Pat set up VMs to communicate securely

**7/2/12 - 7/3/2012:** Coral aka Tracy emails Perry aka Pat, begins discussion of “buzz” around the office and there being a valuable exhibit that could be their lucky break. They later discover the exhibit contains valuable stamps that are insured.

**7/6/12:** Pat (Perry) contacts “King” and presses him into assisting with the heist. King appears to be a previous offender and is serving parole.

**7/9/12-7/11/12:** Carry emails Tracy about organizing a flash mob, including questions about bringing an iPad into the museum and the museum’s guard shift schedule. Part of the exchanges are encoded and we could not open them.

**7/10/12:** Pat emails Tracy stating that he has an accomplice to complete the heist and includes a list of supplies needed to complete the theft.

**7/11/12–7/12/12:** Carry sends Google+ posts to Tracy, most likely about the flash mob.

# Conclusion

There were two plots happening simultaneously: one primarily orchestrated by Carry to start a flash mob which is a cover for defacing some of the art in the National Gallery. The second plot was primarily led by Tracy, Pat and the mysterious King to steal the stamps arriving as part of the new gallery exhibit.

# Appendix A: Correspondence Evidence

This subsection will provide an amalgamation of the email and SMS correspondence evidence.

| **Master Timeline of NGDC** | | | | |
| --- | --- | --- | --- | --- |
| **Artifact #** | **Timestamp** | **Header Information** | **Key Information** | **Evidence Location** |
| 1 | 6/19/2012  20:06:33 | F: [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Paris Speak and answer | Translation from French:  I considered your proposal. My answer is yes! You said that you have an alias. Send me e-mail, and I will provide you supplementary instructions.  pat | /mobile/Library/Mail/OP-coralbluetwo@hotmail.com@pop3.live.com/INBOX.mbox/Attachments/60/2 |
| 2 | 6/19/2012  20:26:47 | F: [perrypatsum@yahoo.com](mailto:perrypatsuum@yahoo.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Look me up sometime | Tracy,  Talked to your brother about an email. You should have your friend, Alias, send me an email. Thanks  Perry |  |
| 3 | 6/19/2012  21:38:59 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.coom)  Subject: Crazydave by the VMs  Attachment: Crazydave1.mp3 | Hey Coral,  Just got your email. That took longer than expected! Oh well!  You’ve got to check out this new song by the VMs. I love the base. Tell me what you think!  Perry  Attachment: Crazydave1.mp3  **[ We were unable to open the .mp3 file, needs further investigation. ]** |  |
| 4 | 6/19/2012  21:39:34 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)  T: [coralvluetwo@hotmail.co](mailto:coralvluetwo@hotmail.coom)m  Subject: Re: ??? | They are just now trickling in.  ( in response to this email from <coralbluetwo@hotmail.com> :  Are you getting my emails? I’ve sent you two already. I thought to hear back from you by now… ) |  |
| 5 | 6/21/2012  17:43:15 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahhoo.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Re: Crazydave by the VMs | It probably wouldn’t hurt to listen to some of these other songs as well. Not critical though…  -Perry  ( in response to the following email chain:  from <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  to: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Yes Perry, that song was great. It really ‘set me up’ for a good listen.  Thanks,  Coral  —-------------------------------  from: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  to: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  Hey Coral,  Just got your email. That took longer than expected! Ohh well!  You’ve got to check out this new song by the VMs. I love the base. Tell me what you think!  Perry ) |  |
| 6 | 6/28/2012  19:31:33 | F: [perrypatsum@yahoo.coom](mailto:perrypatsum@yahoo.coom)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Whats going on | Coral,  Great, now that we have everything set up it would be better to do most of our communication here and on your new ‘setup’. This might keep us a little bit safer. I know money is rough for both of us, so we may have to ‘push the envelope’ a bit.  A few friends from around the office are really good about these types of things. If I find out anything interesting I will shoot you an email. In the meantime let’s try to shoot some ideas and back and forth.  Your friend,  Perry |  |
| 7 | 6/29/2012  14:21:56 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Re: Whats going on | Okay, we will work something out. I just need to be careful. A has been sniffing around the office. Makes me nervous, but I am sure we can still make something happen.  (in response to the following email:  f: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  t: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Coral,  Great, now that we have everything set up it would be better to do most of our communication here and on your new ‘setup’. This might keep us a little bit safer. I know money is rough for both of us, so we may have to ‘push the envelope’ a bit.  A few friends from around the office are really good about these types of things. If I find out anything interesting I will shoot you an email. In the meantime let’s try to shoot some ideas and back and forth.  Your friend,  Perry ) |  |
| 8 | 6/29/2012  15:21:35 | F: [perryppatsum@yahoo.com](mailto:perryppatsum@yahoo.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Re: Whats going on | Coral,  Will do, but don’t worry. If something like we talked about happens to pop up, we can definitely pull something like this off.  Take care,  Perry  ( in response to this email chain:  f: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  t: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Okay, we will work something out. I just need to be careful. A has been sniffing around the office. Makes me nervous, but I am sure we can still make something happen.  —---------------------------------  f: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  t: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  Coral,  Great, now that we have everything set up it would be better to do most of our communication here and on your new ‘setup’. This might keep us a little bit safer. I know money is rough for both of us, so we may have to ‘push the envelope’ a bit.  A few friends from around the office are really good about these types of things. If I find out anything interesting I will shoot you an email. In the meantime let’s try to shoot some ideas and back and forth.  Your friend,  Perry ) |  |
| 9 | 7/2/2012  16:13:18 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Re: Some good news | Awesome. Hopefully this turns out to be our lucky break.  Perry  ( in response to this email:  f: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  t: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Perry,  I think I may have come across something interesting. Everybody around the office seems to be buzzed about a foreign exhibit that is supposed to be coming over. There hasn’t been any official release in writing but we have been going through quite an ordeal with all this paperwork. From what I can tell, this exhibit has to be a big deal. I’ll let you know if I found out anything else.  Coral ) |  |
| 10 | 7/2/2012  20:00:31 | F: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)  T: [coralbluuettwo@hotmail.com](mailto:coralbluuettwo@hotmail.com)  Subject: Re: Some good news | That is weird. Hopefully it just means that it is something small, and that could be a very good thing for us.  Okay so there has been a lot of money being thrown around to get this exhibit over to us. I’ve been swimming through paperwork and memos all day, but none of it seems to have any solid information that could help us. I  I had to scan and verify some shipping information, and compared to what it usually costs to ship exhibits… this one seems relatively cheap. I’m not sure if this is good or bad for us (or even an error), but hopefully I will be able to find out more later in the week.  ( in response to this email chain:  f: <[perrypatsum@hotmail.com](mailto:perrypatsum@hotmail.com)>  t: <[coralbluettwo@yahoo.com](mailto:coralbluettwo@yahoo.com)>  Awesome. Hopefully this turns out to be our lucky break.  Perry  —---------------------------------  f: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  t: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Perry,  I think I may have come across something interesting. Everybody around the office seems to be buzzed about a foreign exhibit that is supposed to be coming over. There hasn’t been any official release in writing but we have been going through quite an ordeal with all this paperwork. From what I can tell, this exhibit has to be a big deal. I’ll let you know if I found out anything else.  Coral ) |  |
| 11 | 7/3/2012  14:53:04 | F: [perrypatsum@hotmail.com](mailto:perrypatsum@hotmail.com)  T: [coralbluetwo@yahoo.com](mailto:coralbluetwo@yahoo.com)  Subject: Re: Some good news | That may just be exactly what we need. Try to collect as much information on the exhibit as you can, the more information… thee better. In the meantime, I will try to look into our potions for actually pulling something like this off.  I was told that we are supposed to be receiving a rare collection of stamps. That would explain why the shipping information looked a bit out of the ordinary to me. I’m not certain of the specifics for the stamps, but they seem to be very highly valued by somebody. Maybe this is our ticket,  ( in response to this email chain:  f: <[perrypatsum@hotmail.com](mailto:perrypatsum@hotmail.com)>  t: <[coralbluetwo@yahoo.com](mailto:coralbluetwo@yahoo.com)>  That is weird. Hopefully it just means that it is something small, and that could be a very good thing for us.  —--------------------------------  f: <[perrypatsum@hotmail.com](mailto:perrypatsum@hotmail.com)>  t: <[coralbluetwo@yahoo.com](mailto:coralbluettwo@yahoo.com)>  Awesome. Hopefully this turns out to be our lucky break.  Perry  —---------------------------------  f: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)>  t: <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com)>  Perry,  I think I may have come across something interesting. Everybody around the office seems to be buzzed about a foreign exhibit that is supposed to be coming over. There hasn’t been any official release in writing but we have been going through quite an ordeal with all this paperwork. From what I can tell, this exhibit has to be a big deal. I’ll let you know if I found out anything else.  Coral ) |  |
| 12 | 7/6/2012  15:27:51 | F: [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)  T: [tracysumtwelve@gmail.com](mailto:tracyysumtwelve@gmail.com)  Subject: Re: Good News | hey sis I know a guy… he’s known as king  (in response to the following email:  f: <[tracysumtweelve@gmail.com](mailto:tracysumtweelve@gmail.com)>  t: <[patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)>  I just talked to Coral, she sounded ecstatic. She mentioned she just got some great news about her job. You should catch up with heer  Tracy ) |  |
| 13 | 7/6/2012  15:49:31 | F: [patsumtwleve@gmail.com](mailto:patsumtwleve@gmail.com)  T: [throne1966@hotmail.com](mailto:throne1966@hotmail.com)  Cc: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: can’t pass up | King,  Long time no see… I have a juicy proposition for you. Two weeks from now me and my associates are planning a heist at the national gallery. Although, we need a helping hand. I know that you are on parole right now and are probably hesitant to participate. Me and your parole officer go years back. He is a very strict fellow. If he were to find out that you were dealing drugs and shooting dope in your veins every night, I feel he wouldn’t be too happy. It’s very easy for a person to phone the feds an anonymous tip that you are on drugs and the location of your stash. All they have to do is give you a drug test and since you’re on parole, the feds don’t need a search warrant. Well, hit me up. You know where to find me. |  |
| 14 | 7/6/2012  17:59:24 | F: [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Re: Good News | Hey sis here is the login info for the other account we talked about - AGAIN  [coralblue@hotmail.com](mailto:coralblue@hotmail.com) PW: legalBee  (in response to this email chain:  f: <[tracysumtwleve@gmail.com](mailto:tracysumtwleve@gmail.com)>  t: <[patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)>  Oh cool, we should hang out sometime.  —-----------------------------  f: <[patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)>  t: <[tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)>  hey sis I know a guy… he’s known as King.  —---------------------  f: <[tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)>  t:< [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)>  I just talked to Coral, she sounded ecstatic. She mentioned she just got some great news about her job. You should catch up with her  Tracy ) |  |
| 15 | 7/9/2012  14:44:11 | F: [tracysumtweelve@gmail.com](mailto:tracysumtweelve@gmail.com)  T: [coralbluetwo@hotmaiil.com](mailto:coralbluuetwo@hotmaiil.com)  Subject: things | Attachments:  documents.zip  docs.zip |  |
| 16 | 7/9/2012  18:18:47 | F: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  T: tracysumtwelve@gmail.com | Hey I was wondering if there was any way you could help me get my tablet into the gallery. I know security isn’t too keen on computers and the like in the gallery, but maybe you could pull some strings and get it in for me? I can make it worth your while :) But really I would be happy to get lunch again or something else for your help. I want to get some pictures for my flash mob event I told you about. Let me know!  ( in response to this email chain:  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  Hey Carry,  Just wanted to say thanks for lunch. I had a great time and it was good catching up with you. We should do lunch more often.  Tracy  —---------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Hi,  I saw on facebook that you were having a hard time lately, and I realized that we haven’t spoken face-to-face in quite a while. I was really hoping that we could get together and have lunch. Does this Friday sound good? Let me know.  -Carry ) |  |
| 17 | 7/10/2012  13:48:40 | F: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Re: Long time no see… | Awesome this will be a big help. Can I come in tomorrow, around 9?  ( in response to the following email chain:  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  Hey,  I can definitely help you get your tablet in. Our security guards can be pretty ridiculous sometimes! When would you want to get in and take a look around?  Tracy  —------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Hey I was wondering if there was any way you could help me get my tablet into the gallery. I know security isn’t too keen on computers and the like in the gallery, but maybe you could pull some strings and get it in for me? I can make it worth your while :) But really I would be happy to get lunch again or something else for your help. I want to get some pictures for my flash mob event I told you about. Let me know!  —----------------------------------  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  Hey Carry,  Just wanted to say thanks for lunch. I had a great time and it was good catching up with you. We should do lunch more often.  Tracy  —---------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Hi,  I saw on facebook that you were having a hard time lately, and I realized that we haven’t spoken face-to-face in quite a while. I was really hoping that we could get together and have lunch. Does this Friday sound good? Let me know.  -Carry ) |  |
| 18 | 7/10/2012  15:24:57 | F: [patsumtweleve@gmail.com](mailto:patsumtweleve@gmail.com)  T: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  Subject: Fwd: can’t pass up  Attachment: needs.txt | This is what we need to get for the guy that’s going to make our job happen.  ( forwarded chain below:  f: [throne1996@hotmail.com](mailto:throne1996@hotmail.com)  t: [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)  You’re too kind… I got you brotha. I need some tools in order to do this job for you. Here are some requirements that I will need:  needs.txt  —--------------------------  f: [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)  t: [throne1996@hotmail.com](mailto:throne1996@hotmail.com)  cc: [coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)  King,  Long time no see… I have a juicy proposition for you. Two weeks from now me and my associates are planning a heist at the national gallery. Although, we need a helping hand. I know that you are on parole right now and are probably hesitant to participate. Me and your parole officer go years back. He is a very strict fellow. If he were to find out that you were dealing drugs and shooting dope in your veins every night, I feel he wouldn’t be too happy. It’s very easy for a person to phone the feds an anonymous tip that you are on drugs and the location of your stash. All they have to do is give you a drug test and since you’re on parole, the feds don’t need a search warrant. Well, hit me up. You know where to find me. )  **[ Contents of needs.txt ]**  Rope and javelin (using alternative means to break in)  Tactical turtlenecks (I will be wearing)  Spray paint (for the cameras)  Vibrum 5-finger shoes (in order to walk silently)  A pack of smokes (detecting lasers)  Smoke grenades (used as a means of escape if caught) |  |
| 19 | 7/11/2012  17:06:09 | F: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Re: Long time no see… | **[ Encoded message we were unable to decode. Will require more investigation ]** |  |
| 20 | 7/11/2012  19:53:54 | F: [carrysum2012@yahoo.como](mailto:carrysum2012@yahoo.como)  T: [tracysumtweelve@gmail.com](mailto:tracysumtweelve@gmail.com)  Subject: Re: long time no see… | Hey so i’m putting together this event we talked about and I want to make it as painless as possible. I know that your security fold sometimes get a little out of sorts. Is there a good time or maybe you could just let me know the shift changes so you don’t have to know when I am going to do this. I have a pretty good budget for the event if you would like a little something for the info.  ( in response to the following email chain:  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrrysum2012@yahoo.com](mailto:carrrysum2012@yahoo.com)  Yea sure, that sounds good. See you tomorrow!  Tracy  —--------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Awesome this will be a big help. Can I come in tomorrow, around 9?  —----------------------------------  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  Hey,  I can definitely help you get your tablet in. Our security guards can be pretty ridiculous sometimes! When would you want to get in and take a look around?  Tracy  —------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Hey I was wondering if there was any way you could help me get my tablet into the gallery. I know security isn’t too keen on computers and the like in the gallery, but maybe you could pull some strings and get it in for me? I can make it worth your while :) But really I would be happy to get lunch again or something else for your help. I want to get some pictures for my flash mob event I told you about. Let me know!  —----------------------------------  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  Hey Carry,  Just wanted to say thanks for lunch. I had a great time and it was good catching up with you. We should do lunch more often.  Tracy  —---------------------------------  f: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  t: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Hi,  I saw on facebook that you were having a hard time lately, and I realized that we haven’t spoken face-to-face in quite a while. I was really hoping that we could get together and have lunch. Does this Friday sound good? Let me know.  -Carry ) |  |
| 21 | 7/11/2012  19:28:53 | F: [noreply-5dd47ca1@plus.google.com](mailto:noreply-5dd47ca1@plus.google.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Carry Sumtwelve added you on Google+ | **[ Link to a google circle invite ]** |  |
| 22 | 7/11/2012  23:22:03 | F: [replyto-748d3d22@plus.google.com](mailto:replyto-748d3d22@plus.google.com)  T: [tracysumtwelve@gmail.coom](mailto:tracysumtwelve@gmail.coom)  Subject: Carry Sumtwelve is sharing with you on Google+ | **[ Link to a post shared via Google+ ]** |  |
| 23 | 7/12/2012  16:12:07 | F: [replyto-748d3d22@plus.google.com](mailto:replyto-748d3d22@plus.google.com)  T: [tracysumtwelve@gmail.coom](mailto:tracysumtwelve@gmail.coom)  Subject: Carry Sumtwelve is sharing with you on Google+ | **[ Link a post shared via Google+ ]** |  |
| 24 | 7/12/2012  18:03:51 | F: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  T: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  Subject: Re: Long time no see… | It will be fun.  Sorry… It’s the keyboard on my new phone.  (in response to this email chain:  f: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  t: [carrysum2012@yahoo.com](mailto:carrysum2012@yahoo.com)  What do you mean by that?  **[ rest of email chain is encoded ]** ) |  |

### 

# Appendix B: WiFi and GPS Location Information

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### 

| **Location Information** | | | | |
| --- | --- | --- | --- | --- |
| **Artifact #** | **Timestamp** | **Header Information** | **Body** | **Map Screenshot** |
| 44:1e:a1:f4:d:7f | 3.61306882473715E8 | 38.88055896 -77.11553561 | 900 N Glebe Rd, Arlington, VA 22203 |  |
| 0:23:5e:b0:6d:f1 | 3.613068824737 | 38.88106083 -77.11533838 | 901 N Glebe Rd, Arlington, VA 22203 |  |
| 0:26:b8:ac:1c:10 | 3.61306882473715E8 | 38.88005346 -77.11595332 | 801 N Wakefield St, Arlington, VA 22203 |  |
| 54:75:d0:a5:f:a3 | 3.61306882473715E8 | 38.88138395 -77.11556851 | 851-977 N Glebe Rd, Arlington, VA 22203 |  |
| 54:75:d0:a5:f:a0 | 3.61306882473715E8 | 38.88139647 -77.11564362 | 982-900 N Glebe Rd, Arlington, VA 22203 |  |
| 68:7f:74:78:ec:fa | 3.61307043743548E8 | 38.88147109 -77.11392492 | 900 N Taylor St, Arlington, VA 22203 |  |

We were able to export the Wifi GPS location data to an external map. Below are the three

clusters of datapoints, along with an address in a relatively central location for each cluster. Because these are summary points, no specific date, location or artifact ID has been assigned.

You can see the map here: <https://www.google.com/maps/d/u/0/edit?mid=1Oanb9qLnnD1gJ1gOzTMDLa_PCjgZefk&usp=sharing>.

| 901 N Glebe Rd, Arlington, VA 22203 |  |
| --- | --- |
| 1521 N Quaker Ln, Alexandria, VA 22302 |  |
| 2804 South Glebe Rd Arlington, VA 22203 |  |