# Narcos 2019

## **Digital Forensics Report**

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#### Disclaimer:

The characters and the scenario in this report are fictional. This paper is only intended for research purposes and as a personal project.

#### 1. Introduction

This report provides corroborative evidence of the connection between Jane Esteban, John Fredericksen, and Steve K. There is also evidence pointing to why they were going to meet up in Wellington and their plans.

#### 1.1 Scenario

Due to intelligence provided by the Australian government, two passengers were intercepted by Customs upon arriving at Wellington, New Zealand from Brisbane. The Intel provided stated that Jane Esteban and John Fredricksen may be involved in illegal activity.

The suspects were searched by a customs officer. John Fredricksen's baggage consisted of clothing, toiletries and a Windows laptop. Jane Esteban's baggage also consisted of clothing, toiletries and a small windows laptop.

Upon further search of the lining of John Fredricksen's suitcase, one kilogram of Methamphetamine was located. Both suspects were taken into separate interview rooms where they were interrogated. John Fredricksen refused to answer any questions.

Jane Esteban stated all she knew and that she had to deliver the suitcase to the *Eastbourne library* but if all else failed then they were to deliver it to 666 Rewera Avenue, Petone as told by John Fredricksen.

Customs and police subsequently raided that address. There was nobody present at the address. Customs did, however, find drugs, guns and a desktop computer in the living room of the suspect's house.

You are a Customs forensics investigator. Customs officers have delivered a forensic image and memory dump of the suspect's desktop computer to you. Your task is to determine the relationship between John Fredrickson and the suspect, their future intentions and any other supporting evidence that pertains to the case.

Source: 2019 Narcos – Digital Corpora. (n.d.).

https://digitalcorpora.org/corpora/scenarios/2019-narcos/

#### 2. Forensic Examination

The examination uses the image files found in the two laptops at the airport and the desktop at 666 Rewera Avenue.

#### 2.1 **Tools**

The forensic tool used in this investigation is Autopsy 4.21.0. It is an open-source forensics software that collects data artifacts from computer hard drives.

#### 2.2 Evidence Classes

Evidence Class	Description	Туре
1	The image extracted from the desktop at 666 Rewera Avenue (Narcos-1.001)	Windows image file
2	The image extracted from John Fredricksen's laptop (Narcos-2.001)	Windows image file
3	The image extracted from Jane Esteban's laptop (Narcos-3.001)	Windows image file

## 2.2.1 Evidence Class 1 - Desktop Image

#### Exhibit A



A deleted file in the desktop image named price-meth-bust-4.jpg shows a picture of money and narcotics on a table.

Exhibit B



A deleted file named 620x349.jpg shows a crystalized substance in small plastic bags.

## Exhibit C

Туре	Value
Name	SK-DESKTOP
Program Name	Windows 10 Pro
Processor Architecture	AMD64
Temporary Files Directory	%SystemRoot%\TEMP
Path	C:\Windows
Product ID	00330-80000-00000-AA502
Owner	Steve
Source File Path	/img_Narcos-1.001
Artifact ID	-9223372036854775642
	· · · · · · · · · · · · · · · · · · ·

Operating System information revealed the name of the desktop owner. Steve K.

#### Exhibit D

A.r.		1	0 1 0	2040 04 20 24 55 24 557	
W History	google.com	crystal meth	Google Chrome	2019-01-30 21:56:24 EST	Narcos-1.001
W History	google.com	crystal meth	Google Chrome	2019-01-30 21:56:24 EST	Narcos-1.001
History	google.com	crystal meth	Google Chrome	2019-01-30 21:56:30 EST	Narcos-1.001
History	google.com	crystal meth	Google Chrome	2019-01-30 21:56:33 EST	Narcos-1.001
History	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:16 EST	Narcos-1.001
W History	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:21 EST	Narcos-1.001
W History	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:21 EST	Narcos-1.001
Wistory	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:21 EST	Narcos-1.001
Wistory	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:26 EST	Narcos-1.001
Wistory	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:30 EST	Narcos-1.001
Wistory	google.com	drug paraphernalia	Google Chrome	2019-01-30 21:57:37 EST	Narcos-1.001
Wistory	google.com	drug paraphernalia meth	Google Chrome	2019-01-30 21:57:50 EST	Narcos-1.001
History	google.com	drug paraphernalia meth	Google Chrome	2019-01-30 21:57:50 EST	Narcos-1.001
History	google.com	drug paraphernalia meth	Google Chrome	2019-01-30 21:57:50 EST	Narcos-1.001
History	google.com	drug paraphernalia meth	Google Chrome	2019-01-30 21:58:03 EST	Narcos-1.001
History	google.com	gangs nz drugs	Google Chrome	2019-01-30 21:59:17 EST	Narcos-1.001
History	google.com	gangs nz drugs	Google Chrome	2019-01-30 21:59:32 EST	Narcos-1.001
W History	google.com	gangs nz drugs	Google Chrome	2019-01-30 21:59:32 EST	Narcos-1.001
History	google.com	gangs nz drugs	Google Chrome	2019-01-30 21:59:32 EST	Narcos-1.001
W History	google.com	stuff nz	Google Chrome	2019-01-31 16:11:34 EST	Narcos-1.001
Wistory	google.com	metservice	Google Chrome	2019-01-31 16:25:55 EST	Narcos-1.001
Wistory	google.com	cric info	Google Chrome	2019-01-31 16:26:40 EST	Narcos-1.001
Wistory	google.com	all blacks	Google Chrome	2019-01-31 16:32:55 EST	Narcos-1.001
Wistory	google.com	protonmail	Google Chrome	2019-01-31 19:12:20 EST	Narcos-1.001
W History	google.com	image steganography download	Google Chrome	2019-01-31 19:15:04 EST	Narcos-1.001
Wistory	google.com	wind patterns	Google Chrome	2019-02-01 16:37:08 EST	Narcos-1.001
Wistory	google.com	all blacks	Google Chrome	2019-02-01 16:43:06 EST	Narcos-1.001
Wistory	google.com	all blacks	Google Chrome	2019-02-01 16:43:06 EST	Narcos-1.001
W History	google.com	best places to trade drugs	Google Chrome	2019-02-01 20:01:34 EST	Narcos-1.001
W History	google.com	best places to trade drugs	Google Chrome	2019-02-01 20:01:34 EST	Narcos-1.001
W History	google.com	best places to trade drugs	Google Chrome	2019-02-01 20:01:34 EST	Narcos-1.001
W History	google.com	wellington libraries	Google Chrome	2019-02-01 20:01:51 EST	Narcos-1.001
W History	google.com	courteney place	Google Chrome	2019-02-01 20:02:51 EST	Narcos-1.001
Wistory	google.com	eastbourne library	Google Chrome	2019-02-01 20:04:36 EST	Narcos-1.001
Wistory	google.com	eastbourne	Google Chrome	2019-02-01 20:05:05 EST	Narcos-1.001
History	google.com	eastbourne library	Google Chrome	2019-02-01 20:05:11 EST	Narcos-1.001

The desktop image has traces of search history looking at the rendezvous point or Eastbourne on google maps and searches for meth and drug paraphernalia. There are also searches for drug routes in Wellington and which gangs are affiliated with them in the area.

Note: Steganography was also searched, which may mean other pictures have embedded messages.

#### 2.2.2 Evidence Class 2 - Laptop image of Jason Fredericksen

#### Exhibit E

🖊 spartan.edb	1	https://www.wisebread.com/how-to-launder-money	How to Launder Money
🖊 spartan.edb	1	http://www.lions.com.au/news	News & Media - lions.com.au
🖊 spartan.edb	1	https://www.reddit.com/r/addiction/comments/ajxak	People who don't suffer from ad
🖊 spartan.edb	1	https://www.youtube.com/watch?v=wyOanzl-WFs	1829-05-05 11:52:31 PM
🖊 spartan.edb	1	https://www.wisebread.com/how-to-launder-money	How to Launder Money

Web bookmarks revealed the suspect was looking at information on how to launder money.

#### Exhibit F

© Steve K.Ink	C:\Users\JohnF\Documents\Business\Steve K.PNG	2019-02-01 17:43:21 EST	Narcos-2.001

The suspect has files connecting him to Steve K.

#### 2.2.3 Evidence Class 3 - Laptop image of Jane Esteban

#### Exhibit G

SYSTEM	1	2019-01-30 22:04:08 EST	Seagate RSS LLC	Backup Plus Slim Portable Drive 1 TB	MSFT30NA9LP8HF	Narcos-1.001
▼ SYSTEM	1	2019-01-28 23:15:55 EST	Seagate RSS LLC	Backup Plus Slim Portable Drive 1 TB	MSFT30NA9LP8HF	Narcos-3.001

According to USB device information, Jane Esteban passed a portable drive to Steven K between January 28 and 30. The device ID of the drive is identical on both images.

#### 2.2.4 Combined Evidence from All Classes

#### Exhibit H

SYSTEM	1	2019-02-01 22:02:28 EST	Western Digital Technologies, Inc.	Elements Portable (WDBUZG)	57584D3145373444574D314E	Narcos-3.001
<b>SYSTEM</b>	1	2019-02-01 21:56:41 EST	Western Digital Technologies, Inc.	Elements Portable (WDBUZG)	57584D3145373444574D314E	Narcos-2.001
<b>SYSTEM</b>	1	2019-01-31 21:41:46 EST	Western Digital Technologies, Inc.	Elements Portable (WDBUZG)	57584D3145373444574D314E	Narcos-1.001

USB device information revealed that a portable drive was shared between the suspects between the dates of January 31 and February 1. The device ID of the drive is identical on all images.

#### Exhibit I

Skype_Call_Dialing.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-2.001
Skype_Call_Ended.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-2.001
Skype_Call_Dialing.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-1.001
Skype_Call_Ended.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-1.001
Skype_Call_Dialing.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-3.001
Skype_Call_Ended.m4a	2015-06-16 09:59:25 EDT	2015-06-16 09:59:25 EDT	Narcos-3.001

Process data from the drives show that all the suspects were in contact with each other through Skype going back to 2015. The time stamps from the Skype calls are identical to the second.

#### Exhibit J

List Name	Files with Hits
4 666 Rewera Avenue (2)	2
Eastbourne (34)	34
🔍 Jane (3670)	3670
Jane Esteban (4)	4
John (515)	515
New Zealand (1092)	1092
Petone (63)	63
Wellington (1262)	1262
🔍 drugs (684)	684
library (56619)	56619
ameth (53255)	53255
amethamphetamine (134)	134

A keyword search using the information extracted from the suspects suggests that they have collaborated with each other.

#### 3. Summary and Conclusions

The evidence shows that the suspects were in collaboration with one another in the handling and selling of illegal narcotics from at least 2015 to 2019.

The evidence also suggests that they were planning to start a business in Wellington to launder the money they were making from selling drugs and expand their infrastructure using local trade routes.

## Sources:

File Images and Scenarios are from Digital Corpora.

2019 Narcos – Digital Corpora. (n.d.). https://digitalcorpora.org/corpora/scenarios/2019-narcos/