

Forensic Report for: Jamie Roderick

Case No: 712SSPCA-02

Report compiled by:
George Harrison
De Montfort University
Leicester
LE1 9BH

Date of investigation: 12/12/14

Date report compiled: 12/12/14

Endorsement:

The contents of this report are the result of an investigation undertaken by myself on the 12/12/14 and I hereby confirm that:

1. The investigation was conducted in accordance with the UK ACPO principles.
2. The software and hardware used to support this investigation were prepared and used in a manner designed to assure the forensic integrity of both the process and its outcomes.
3. The opinions presented at the end of this report are mine and mine alone and are based solely on the evidence found.

Signed By: Mr George Harrison *George Harrison*
Date: 12/12/14

Contents Page:

Contents	Page
1. Investigator Credentials	3
2. Executive Summary	4
3. Initial assessment of the case	5
4. Forensic software used	5
5. Initial design considerations	6
6. Evidence Image analysed	6
7. Evidence acquisition timeline	7
8. Keyword Searches	8
9. Analysis of evidence found	8
10. Evaluation of the processes and hardware used	9
11. Conclusion	9
12. References	9
13. Appendix 1	10
14. Appendix 2	11
15. Appendix 3	11
16. Appendix 4	12
17. Appendix 5	12
18. Appendix 6	13

1. Investigator Credentials:

The investigator is a second year student, studying for a BSc Hons Computer Forensic degree.

In the first year I achieved an average of 68% in my completed modules. I studied the following modules:

Elements of computing	[75%]
Programming in C	[73%]
Computational Modelling	[65%]
Computer ethics, Law & Portfolio	[61%]

In the second year of my degree I am studying the following modules:

Organisations, Project Management & Research	[Pending Result]
Multi-Tier Web Applications	[Pending Result]
Forensics & Security	[Pending Result]
Issues in criminal justice	[Pending Result]

2. Executive Summary:

The case briefing was given to me by Jamie Roderick at 1pm 12th December 2014 with a request that I report back to him within a 2 hour period with a report outlining my findings in relation to the dog fighting case.

The specific issues identified for investigation include:

The Scottish Society for Protection of Animals (SPCA) suspects that an illegal dog-fighting ring, situated in Aberdeenshire, is headed by a man currently known as "jo" or "jojo".

The male bull terrier-type dog was found by a member of the public in a lay-by close to New Deer Road. The SPCA said the dog had been killed by a "blunt trauma", possibly to hide evidence.

The requirements of this investigation are to:

1. Seek and report any evidence of involvement with dog fighting.
2. Seek evidence that describes any involvement in dog fighting by the suspect Jimmy Johnstone believed to be known as "jo" or "jojo".
3. Subject to evidence being found of dog fighting, provide details of anyone else who may be involved, the nature of their involvement and evidence of their involvement.

Throughout the remainder of this report the above requirements will be known as Requirements 1 - 3.

The investigation was conducted in a secure forensics lab that conforms to international standards for forensics computer laboratories and in compliance with the ACPO Guidelines (ACPO/7SAFE 2007).

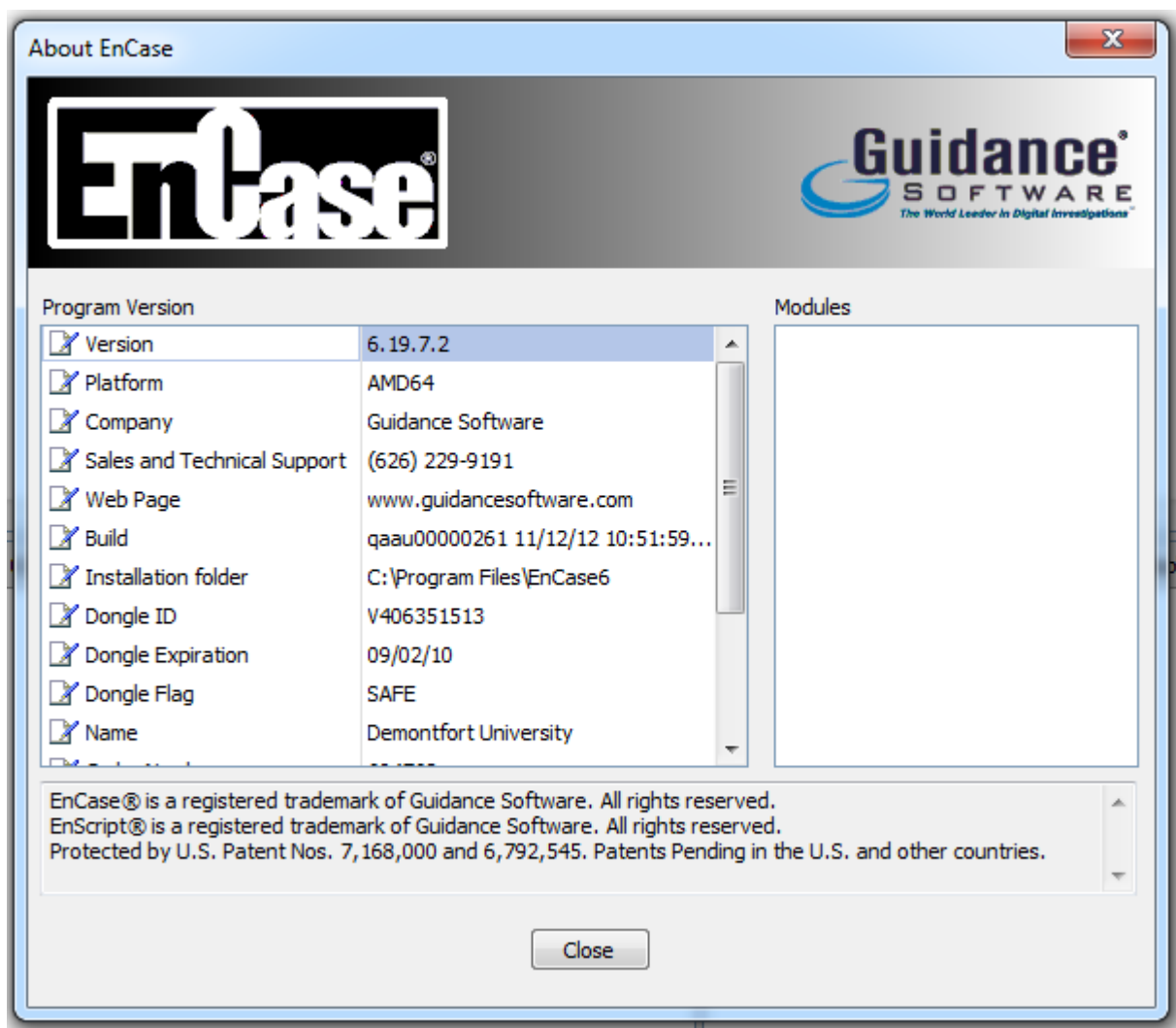
3. Initial assessment of the case:

This case is fundamentally concerned with the criminal act of illegal dog fighting situated in Aberdeenshire. The case involves the analysis of documents and the evidence files contents.

4. Forensic software used in the investigation:

For this investigation I will be using EnCase v6.19.7. This software is the industry standard for forensic analysis. Although EnCase v7 has since been released I am more competent on v6 of this software package.

The details of the software I have used for this investigation are shown below.



5. Initial design considerations

The initial investigation strategy is to undertake the following steps and activities and these are in line with the recommended EnCase process for investigating image files (EnCase 2007).

1. Read and understand the case brief.
2. Identify the key issues in the brief and the associated initial investigation strategy.
3. Check the investigative workstation, forensically clean storage devices to be used and check tools.
4. Create a new case in EnCase and set up the necessary folder structure.
5. Identify the evidence device(s) or image files and establish their location.
6. Obtain the evidence device/image and assure its integrity.
7. Review the evidence as a file system and note any evidential significance/value.
8. Create keyword lists within a folder structure for issues that need investigating and undertake the searches.
9. Review search hits for evidential significance/value.
10. Create bookmarks with comments to explain the evidential value and content.
11. Add data to bookmarks with comments to explain the evidential value and context.
12. Conclude this report by providing an evidence-based expert opinion for each of the key issues involved in the case.
13. After the case undertake a review of the process and note areas for improvement.

6. Evidence image analysed:

The evidence used in this case consists of one image file that has already been acquired by a qualified forensic investigator. The details of the acquisition are below:

EnCase V6.19 Note - Acquisition Hash

Status: Completed

Start: 11/01/13 11:28:50AM

Stop: 11/01/13 11:29:05AM

Time: 0:00:15

Name: dog fight

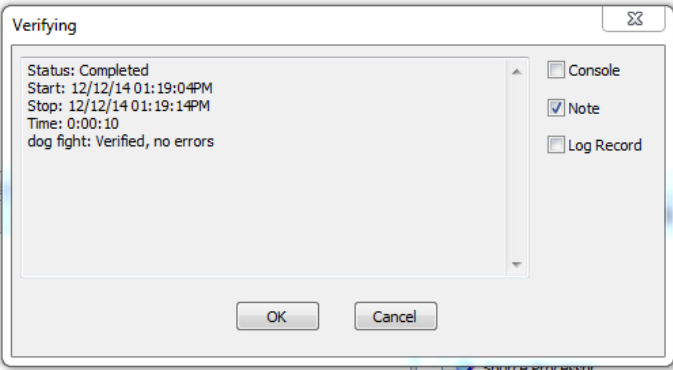
Start Sector: 0

Stop Sector: 2,015,230

Verification MD5: 4113FD0FEBE78D4E942115E59F2843BE

Verification SHA1: 19DD5A820FBA6683F476EB1FA902EEA344DCC1DE

7. Evidence acquisition timeline:

Activity	Time	Outcome	Notes
Created a new case	13:00	Successful	The case is called 'Dog Fight' and the image file is stored at the location: C:\Users\admin\Documents\My Virtual Machines BACKUPS\dog fight.E01
Evidence Acquisition	13:07	Successful	<p>This image file has been acquired by using EnCase v6.19. The file is called dog fight and stored at: C:\Users\admin\Documents\My Virtual Machines BACKUPS\dog fight.E01</p> <p>This image file has already been acquired prior to this report by Jamie Roderick, a professional, qualified forensic investigator.</p> <p>Status: Completed Start: 11/01/13 11:28:50AM Stop: 11/01/13 11:29:05AM Time: 0:00:15 Name: dog fight Start Sector: 0 Stop Sector: 2,015,230 Verification MD5: 4113FD0FEBE78D4E942115E59F2843BE Verification SHA1: 19DD5A820FBA6683F476EB1FA902EEA344DCC1DE</p>
Verify the acquired image	13:15	Successful	 <p>The above image shows that once I opened the image in EnCase it reported no errors. Here I check that the evidence file that has been acquired is accessible and can be easily navigated. This proves that the evidence has been acquired successfully.</p>

8. Keyword Searches:

While the acquisition was taking place a list of possible keywords was identified and will include keywords in the folder named "Dog Fighting":

- North Aberdeenshire
- Bull Terrier
- Jo
- Jojo
- New Deer Road
- Dog fighting
- Jimmy Johnstone

Details of the search hits are shown below:

North Aberdeenshire - Produced 0 hits in the search

Bull Terrier - Produce 1 hit. The file related to this key word was places.sqlite
In this file it appears that the user was searching for English bull terrier dogs for sale, as seen in following text:

<http://www.pets4homes.co.uk/pets4homes/home.nsf/dogsforsale!openform&Breed=English%20Bull%20Terrier>English Bull Terrier Dogs for Sale in UK

jo - produced 1092 hits. The files related to this keyword showed the email conversations with various people about "the fight". This is shown in appendix 3 - 5. Most files are unrelated to the case.

jojo - produced 7 hits. The files related to this keyword showed the email conversations with various people about "the fight". This is shown in appendix 3 - 5.

New Deer Road - produced 0 hits

Dog fighting - produced 44 hits - The files shown by this keyword are mostly session JavaScript files as a result of searching for dog fighting videos on the internet.

Jimmy Johnstone - produced 0 hits

9. Analysis of evidence found:

The analysis undertaken at a file system level with EnCase v6.19.7 shows that:

To answer requirement 1, it appears that dog fighting is of interest to this Person. As can be seen in appendix 1, pictures of injured dogs are shown and there is a picture showing two males watching closely as two dogs are fighting.

Regarding requirement 2, jo johnstones involvement in dog fighting is partially unclear as there is no evidence to show that he has been sighted at the scene.

Regarding requirement 3, it appears that jo knows of up to 4 other people who have an interest in dog fighting. This is seen in appendices 3 - 6.

10.Evaluation of the processes and hardware used:

No software, hardware or procedural problems occurred during the investigation and as such the author is confident that should the need arise the entire process can be replicated by others and identical results will be forthcoming. This is in accordance with principle three of the ACPO Guidelines (ACPO 2007).

11.Conclusion:

On this evidence file there is extensive evidence showing that this person has an interest in dog fighting. As can be seen by the search results and images in the appendices. Jo has been searching for new dogs to buy and watching dog fighting videos online.

Requirement 1 - The evidence file contains various images of dog fighting as shown in appendix 1. Also as shown in the keyword searches jo johnstones has been searching for English bull terrier dogs for sale. This may be to get more dogs fighting for him.

Requirement 2 - The emails as shown in the appendices show that jo has made contact with various people about possible dog fighting. It is unclear by photographic evidence that jo takes part in illegal dog fighting. I would recommend searching his other computer for any substantial photographic evidence of him at the scene of the dog fight.

Requirement 3 - As seen in appendix 3 -6, jo johnstone has had email conversations with various people about arranging a date for a subject of "the fight". There are up to 4 other people involved in this issue. Whether these people are involved in dog fighting is unproven. I would recommend forensic analysis should be carried out on their home machines.

12.References:

ACPO Guidelines 2007
NIST Lab Requirements

13. **Appendix 1:** In reference to requirement 1 - The images below shows evidence that suggests dog fighting is taking place.

1) Dog Fight\dog fight\FirefoxPortable\Data\PROFILE\downloads.sqlit



4) Dog Fight\dog fight\New folder\jims dog.jpg

2) Dog Fight\dog fight\New folder\dog-fighting_1249928i.jpg



14. Appendix 2: In reference to requirement 1 - The image below appears to show the dog that was found dead in a lay-by close to New Deer Road. The image shows that the dog pictured matches that of the description gave by Chief Superintendent Mike Flynn in the investigation brief.

8) Dog Fight\dog fight\New folder\we lost this one.jpg



The picture above was taken on the 10/07/11

15. Appendix 3: In reference to requirement 2 and 3 - The below image is an email header from "jo johnstone" to glapworth@gmail.com who appears to be involved in dog fighting.

Received(Date): Thu, 06 Oct 2011 15:59:50 +0100
From: jo <jojoatthetop@gmail.com>
To: glapworth@gmail.com
Subject: The fight

meet at the usual place on the 29th
jo

16. **Appendix 4:** In reference to requirement 2 and 3 - The below image is an email header with the same message content as shown in appendix 3. This email was sent from jo johnstones email account to another person who appears to be involved in dog fighting, ronnie.smyth@gmail.com

Received(Date): Thu, 06 Oct 2011 16:02:25 +0100
From: jo <jojoatthetop@gmail.com>
To: ronnie.smyth@gmail.com
Subject: the fight

meet at the usual place on the 29th
jo

17. **Appendix 5:** In reference to requirement 2 and 3 - Another email, this time from Tanuja Patel to jo johnstones email account which is jojoatthetop@gmail.com. Tanuja Patel appears to be involved in dog fighting as this person is trying to arrange a meeting date for “the fight” as described in the email subject field.

Received(Date): Thu, 6 Oct 2011 15:11:35 +0100 (BST)
From: Tanuja Patel <patel_tanuja@yahoo.co.uk>
Subject: Re: the fight
To: jo johnstone <jojoatthetop@gmail.com>

how about

15th oct

22nd oct

D

18.Appendix 6: In reference to requirement 2 and 3 - another email from jo johnstone this time to a unidentified person with the email address of am.called.trouble@gmail.com. Jo is trying to arrange a date regarding “the fight”.

Received(Date): Thu, 6 Oct 2011 15:07:57 +0100
Subject: the fight
From: jo johnstone <jojoatthetop@gmail.com>
To: am.called.trouble@gmail.com

can we meet to arrange date
jo