DATA ANALYSIS OF IMAGE: ID THEFT.E01

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CASE #: CIS 481-006
SUSPECT NAME: ELVIS
LOCATION SEIZED: CAL POLY POMONA
COLLECTED BY: PROFESSOR TOBI WEST

Abstract

This report details the evidence retrieved from the ID Theft image and answers the questions given in the Lab 2 handout with appropriate screenshots and descriptions.

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Accessing the Evidence Image

We began by following the instructions on blackboard and created a new case file named Lab2, checking every checkbox that was available and relevant, unchecking the SHA-1 Hash.

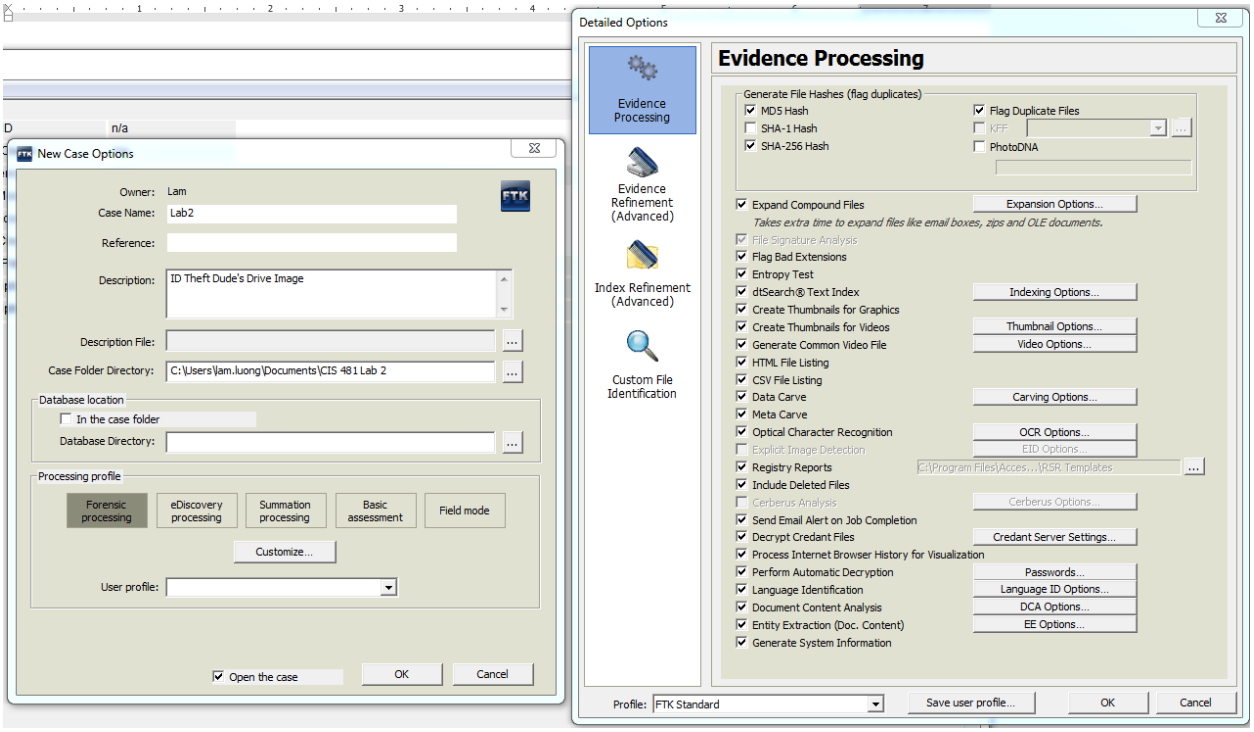


Photo 1: Options chosen when creating the case file

We then proceeded to add the .E01 file to the case, inputting a name, and choosing the time zone. Choosing the time zone is important because it will allow FTK to make note of it in case there is a time zone discrepancy between the suspect and the examiner.

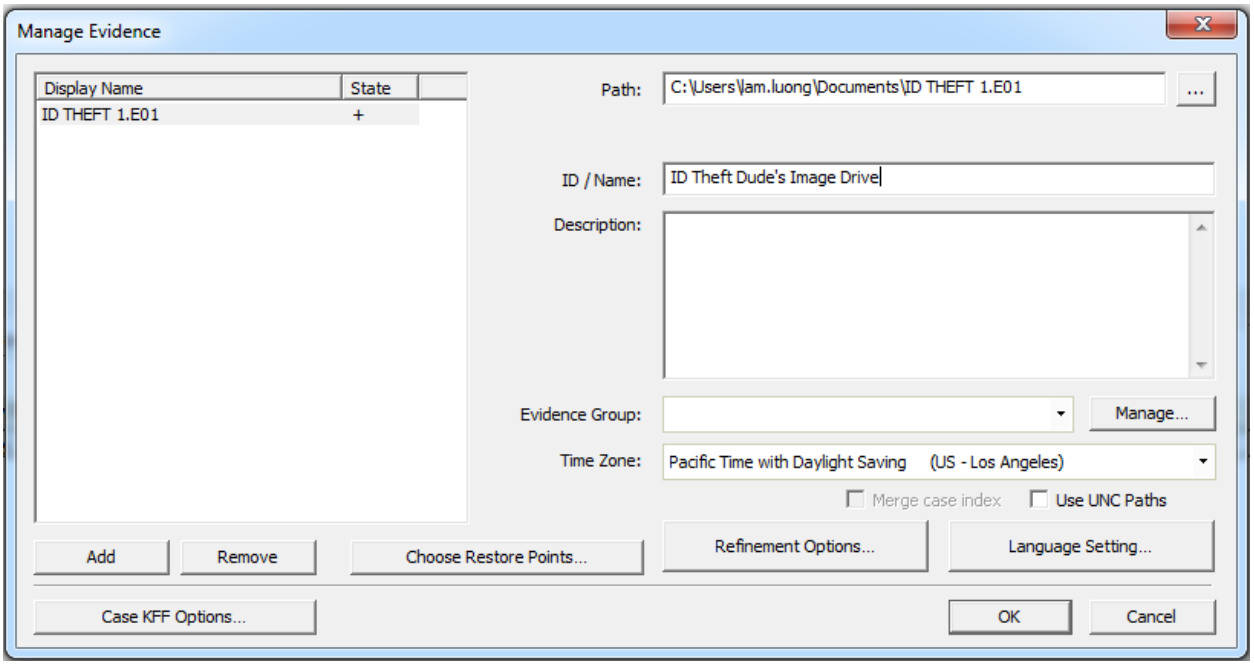


Photo 2: Adding the .E01 file onto case "Lab2"

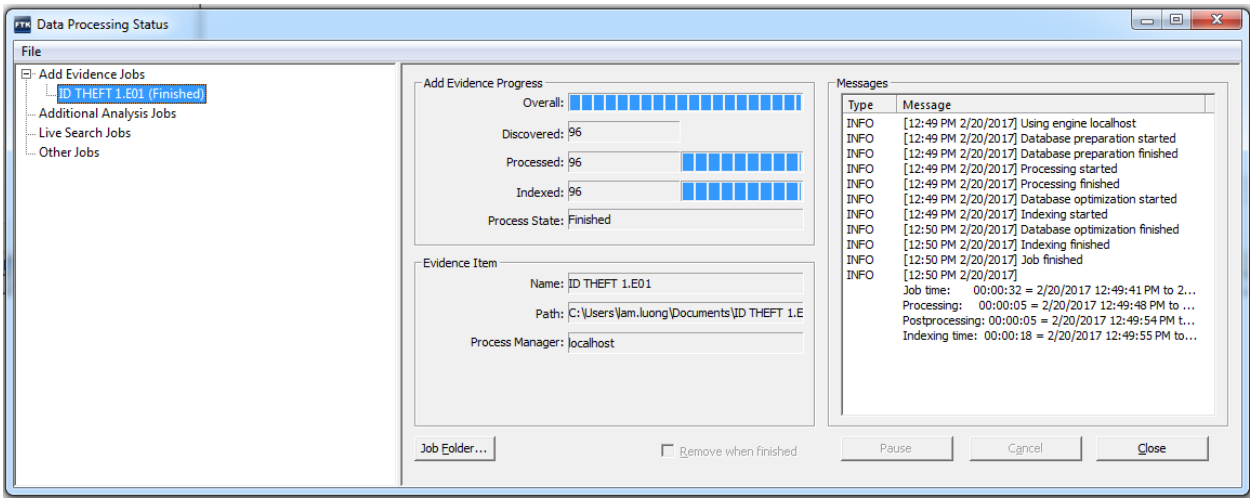


Photo 3: The image has been successfully processed and is attached to Lab2

Next, we proceeded to decrypt the image drive should there be any encryption.

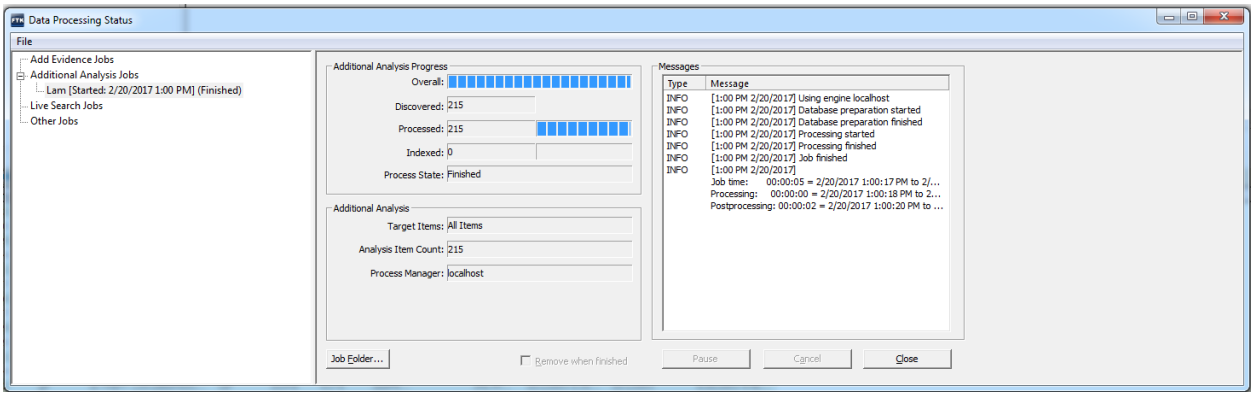


Photo 4: Files that are encrypted have been successfully decrypted

After completing the initial steps to access all the files from the image, we are ready to move onto analyzing the data on the drive.

Evidence for the Prosecution of Counterfeiting U.S. Currency

Upon analyzing the files on the image, we discovered a “deleted” document named “How to Steal IDs.doc” which is a service advertisement claiming to be able to steal “anything.” We know the file is deleted due to the little red ‘X’ icon to the left of the Name. The exact contents of the drive is provided in the screenshots below.

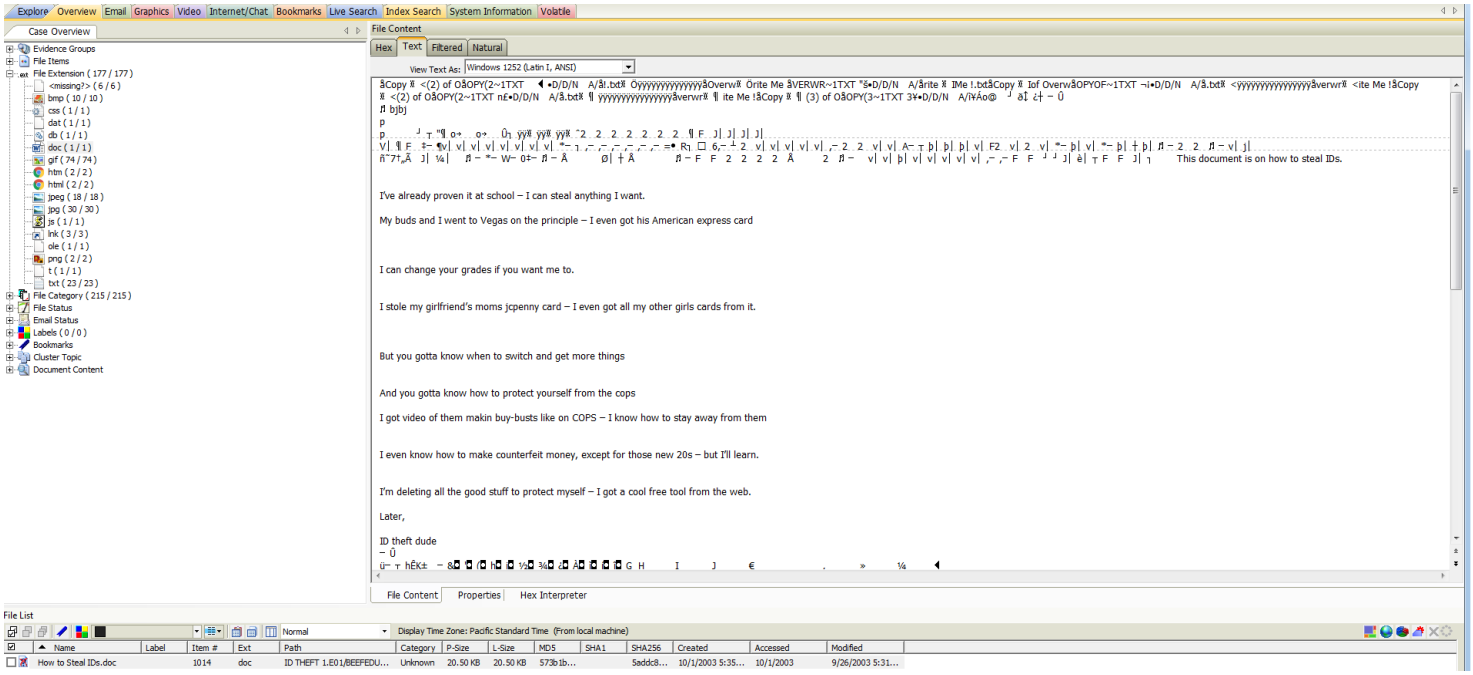


Photo 5: Document that contains the contents of the suspect’s service advertisement

This image shows the suspect’s intent to sell a variety of services and counterfeit goods. One of which is U.S. Currency. The following image is another photo on the suspect’s drive which backs up this advertisement claim.

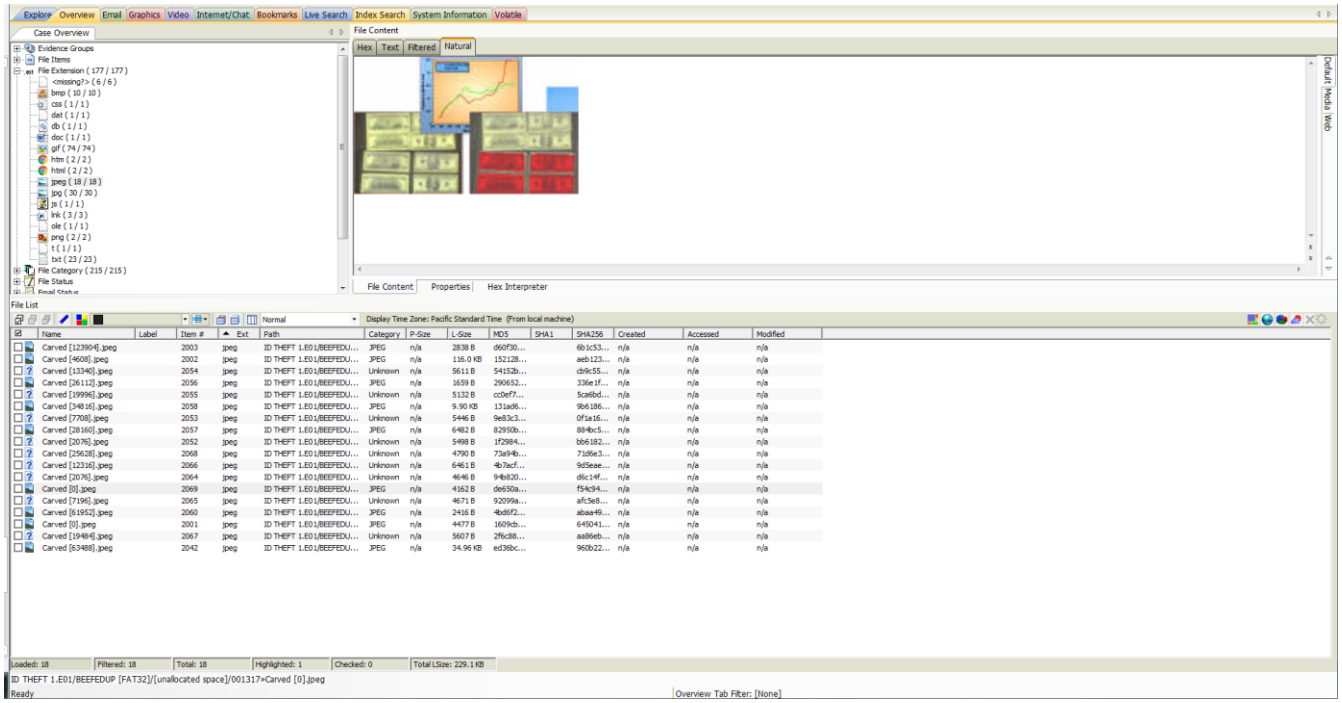


Photo 6: Photo entitled “Carved [0].jpeg” with photos of money being counterfeited

Another file discovered named “BEWARE !!.jpg” was discovered. This shows that the suspect has looked into UV light scanners, which are used to detect counterfeit bills. Perhaps he even owns one with which he tests his counterfeit bills with.

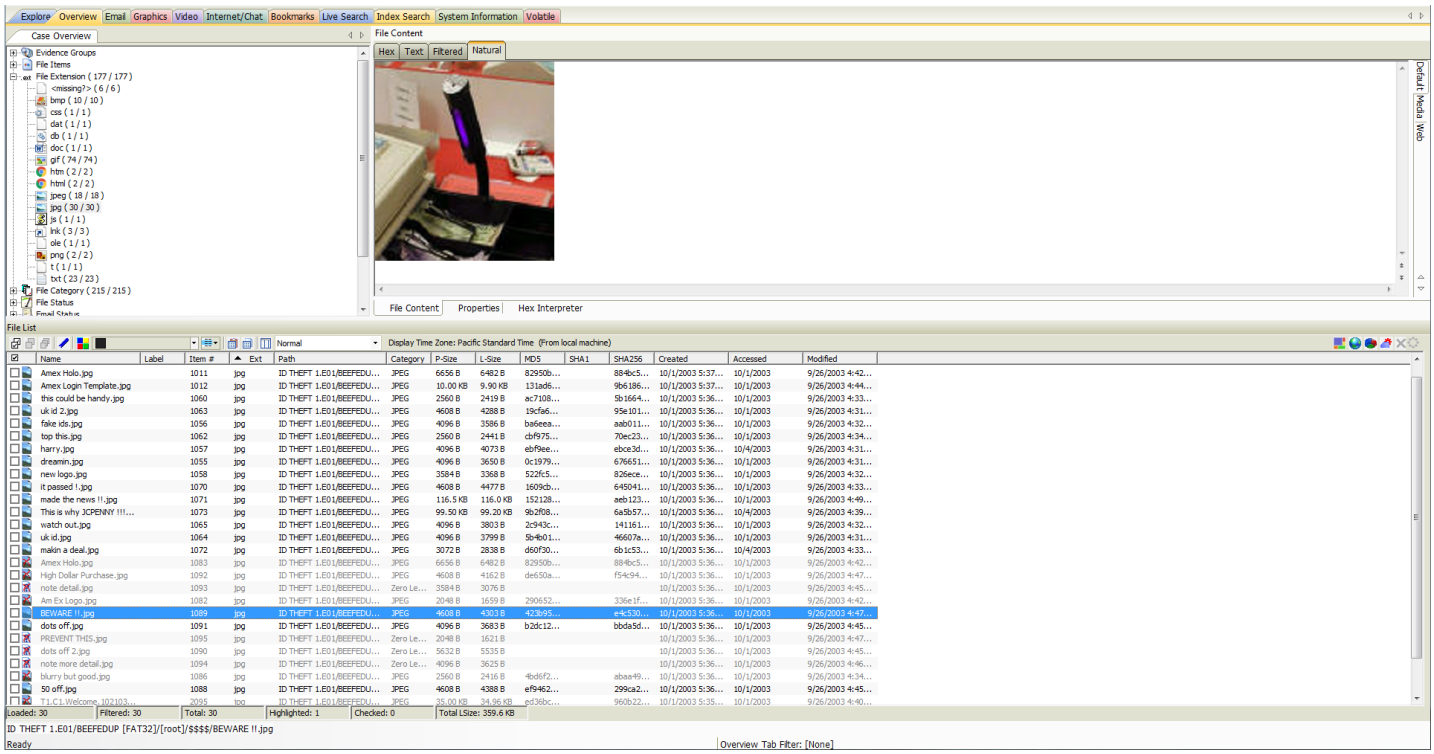


Photo 7: UV Light scanner over some U.S. currency, with both potentially being the suspect’s

Another photo of counterfeit money testing is discovered.

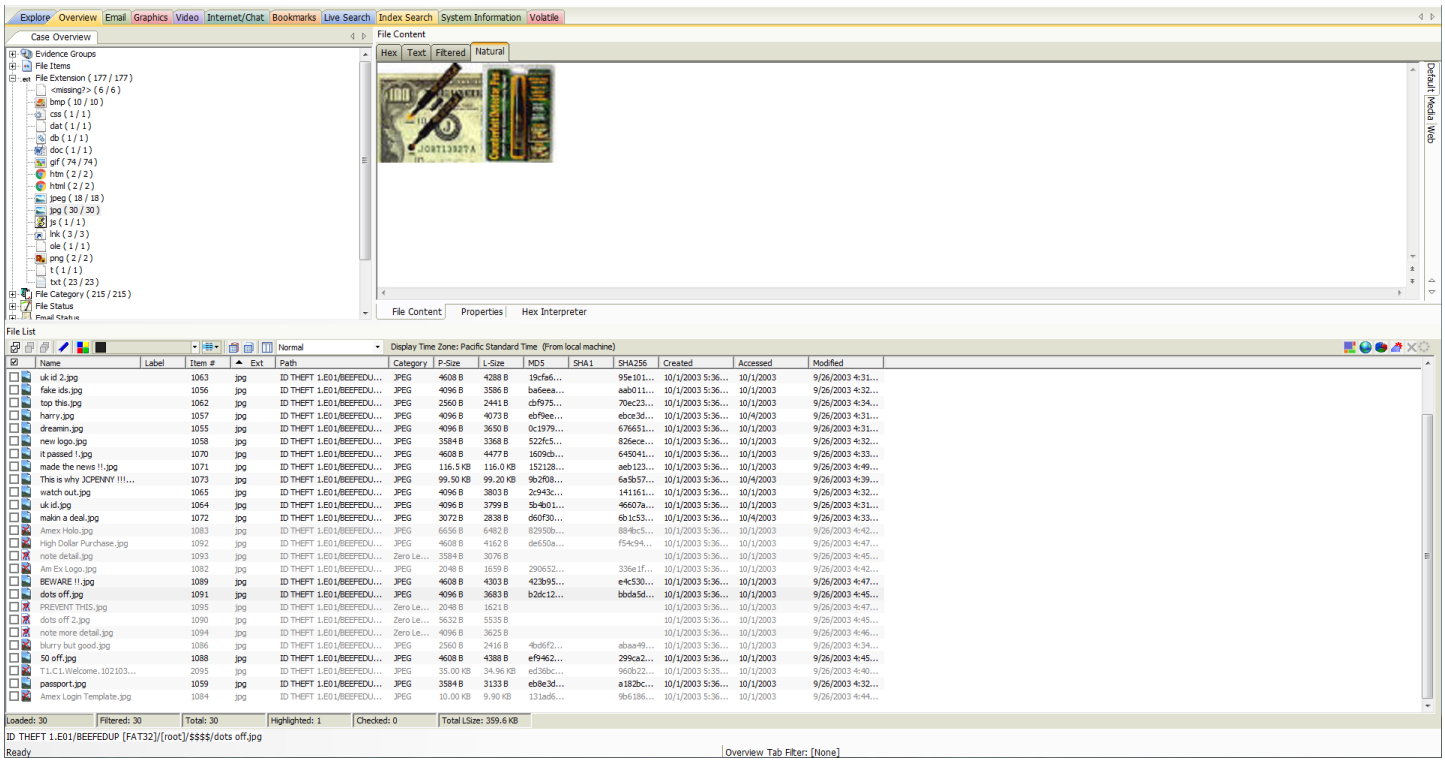


Photo 8: Another money-counterfeiting test

A photo of a 50 dollar bill being broken down into individual parts in a photo entitled “50 off.jpg”

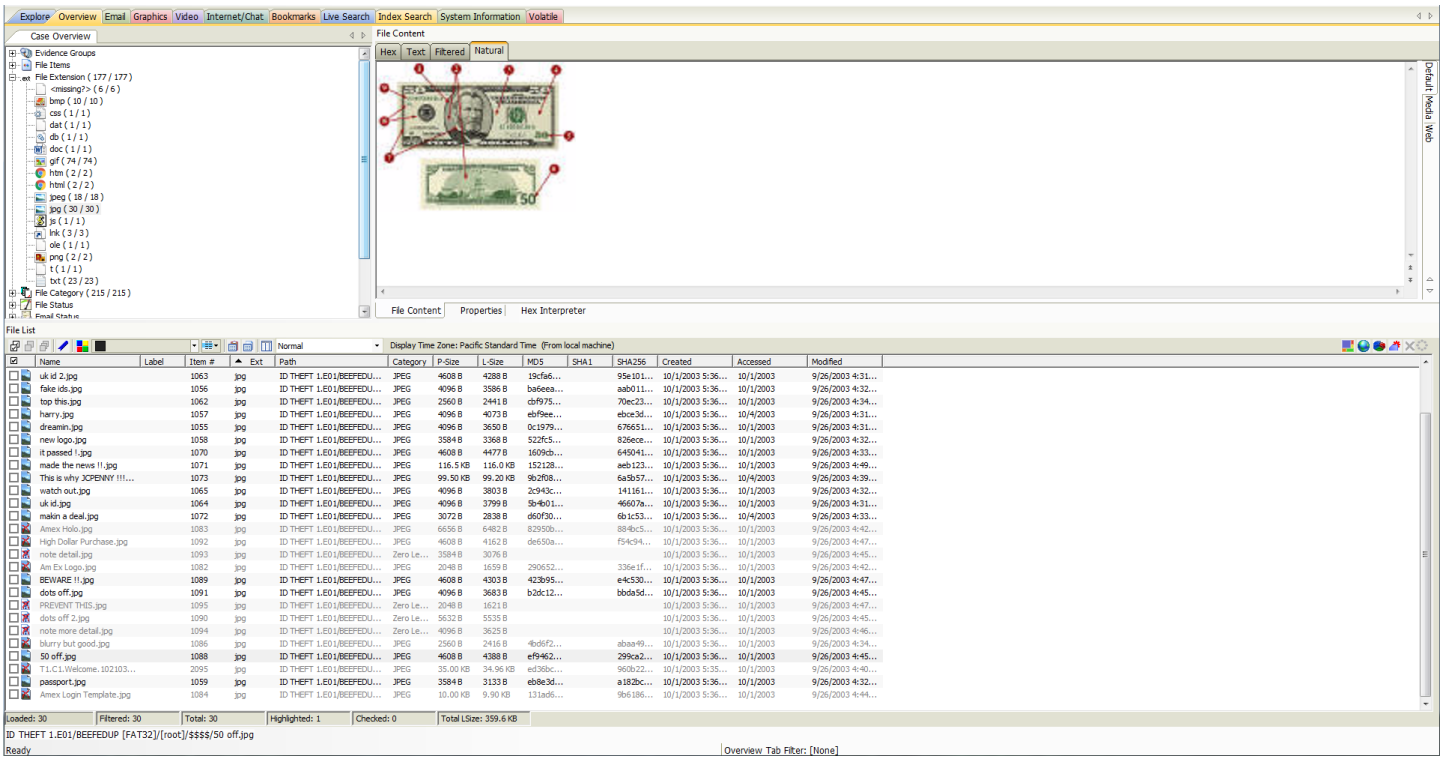


Photo 9: Suspect’s photo of a 50 dollar bill being overanalyzed, possibly for the purpose of counterfeiting

Based on the files in the images above along with the nature of the other files on the drive, we can likely assume that the suspect went to great lengths to create counterfeit U.S. Currency with the intent to sell it.

Evidence for the Prosecution of Counterfeiting U.S. Passports

If we look on photo 5 from page 4, we can see that along with U.S. currency, the suspect also provides a variety of services, one of which we can assume is the counterfeit passports. We strongly believe that the suspect has created and sold counterfeit passports based on a host of photos discovered on his drive, which are shown below.

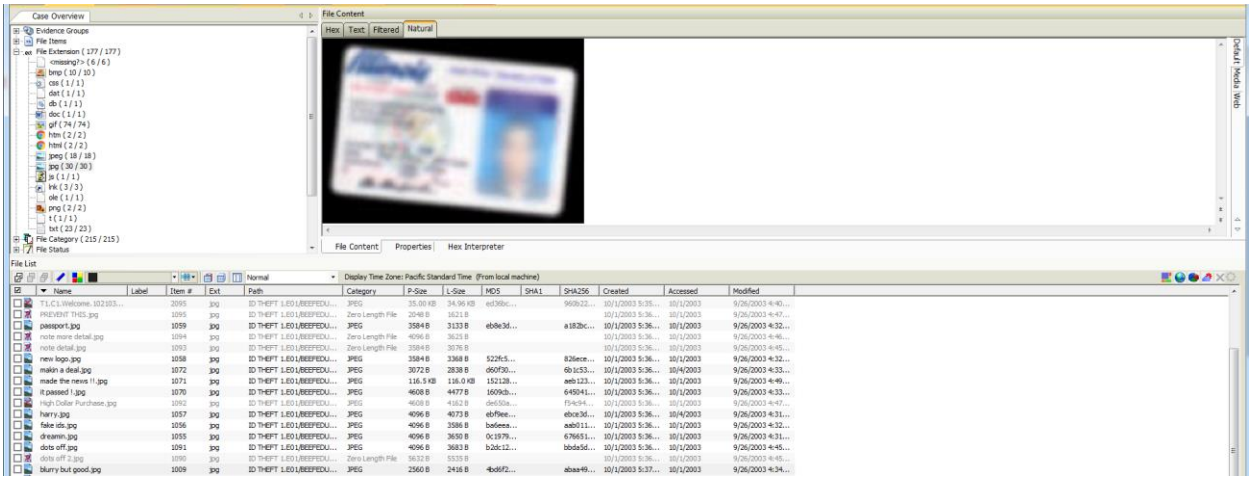


Photo 10: Somebody's Driver's License – "blurry but good.jpg"

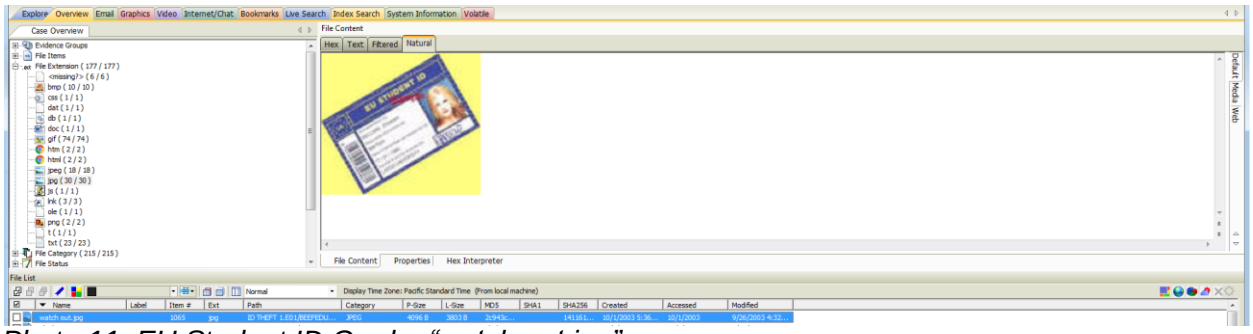


Photo 11: EU Student ID Card – "watch out.jpg"

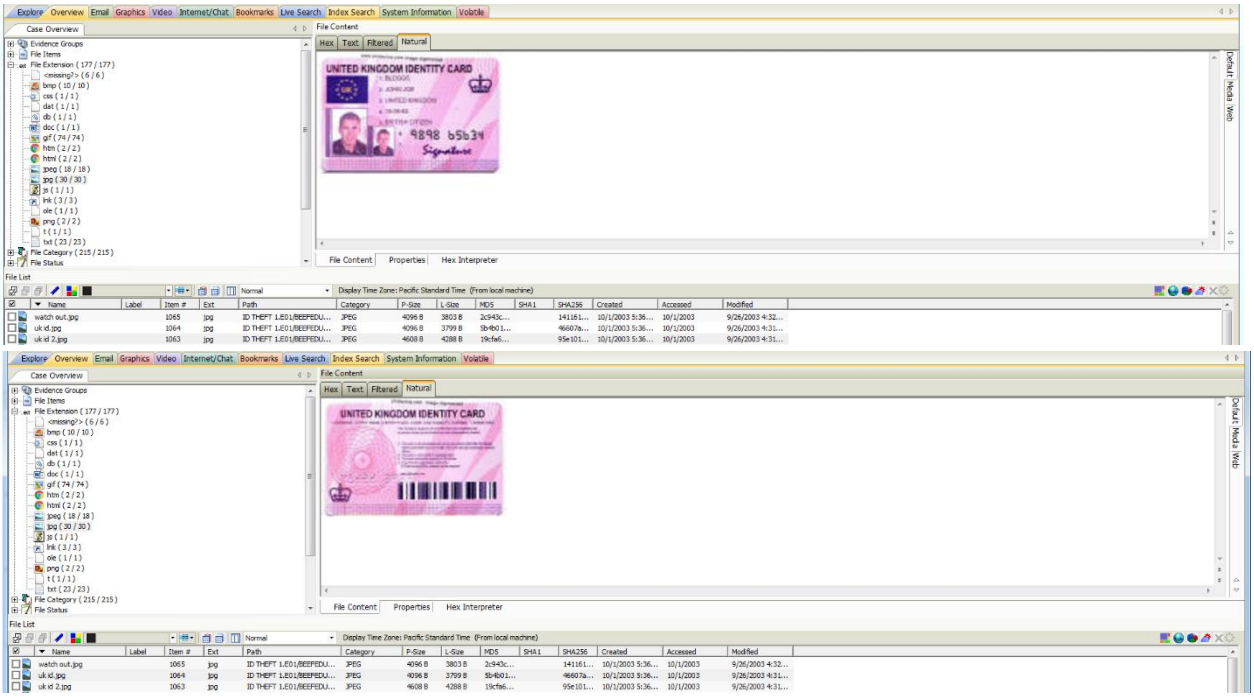


Photo 12 & 13: Front and back of a UK ID Card – "uk id.jpg" & "uk id 2.jpg"

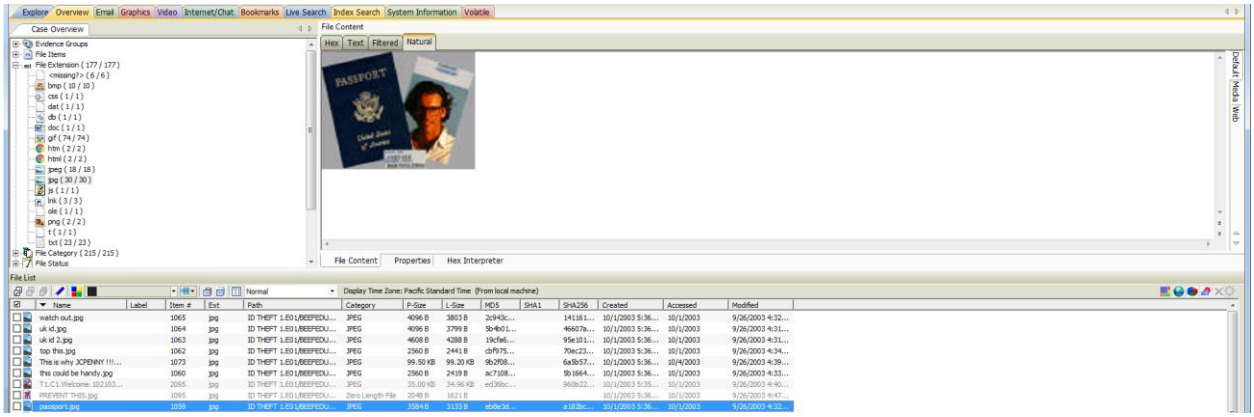


Photo 14: “passport.jpg” image, potentially a counterfeit one

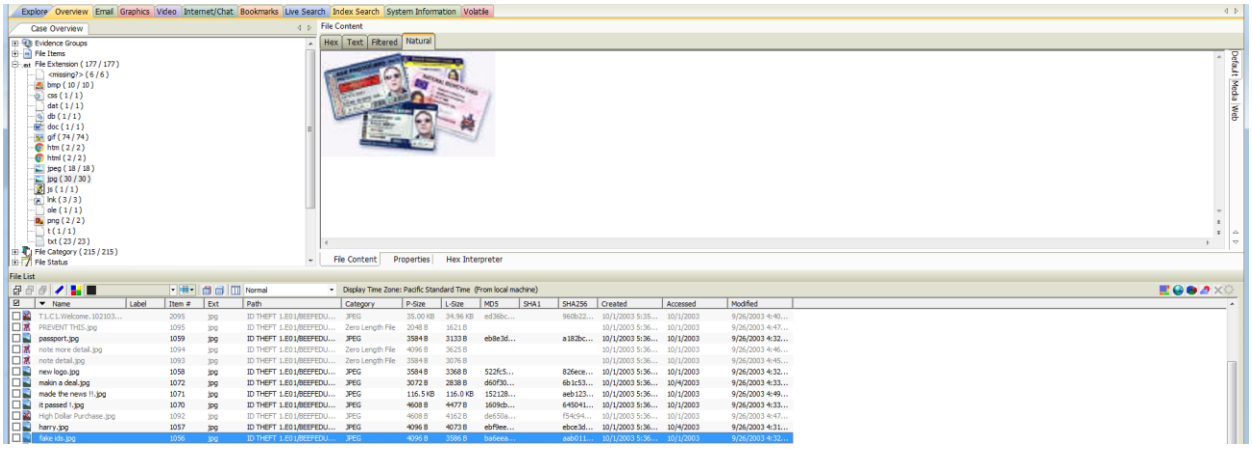


Photo 15: “fake ids.jpg” image, potentially some counterfeit ones the suspect created

Based on the photos found on the drive whose contents are related to IDs and fake IDs, we can safely assume that the suspect had at least some intent on creating counterfeit IDs and or passports. He has clearly been practicing by creating government issued IDs from the UK, and a UK student ID. Furthermore, he had a picture of U.S. passport, which likely means he has the intent to create or already has created counterfeit U.S. Passports.

Evidence for the Prosecution of Theft of Credit Card Information

The suspect had a ton of photos of credit cards plus a fake JCPenny website to lure gullible people into providing their personal details and most importantly, their credit card information. There are also photos that suggest that the suspect had additional sites that try to phish for credit card information by advertising a good deal if one were to create a credit card through the image link. Furthermore, there were also potentially real images of advertisements from JCPenny. These stolen advertisement pictures were likely used as a fake ad to lure people into visiting the phishing website. Lastly, there is an image of a news article in which the suspect bragged in the title of the image “made the news !!.jpg”

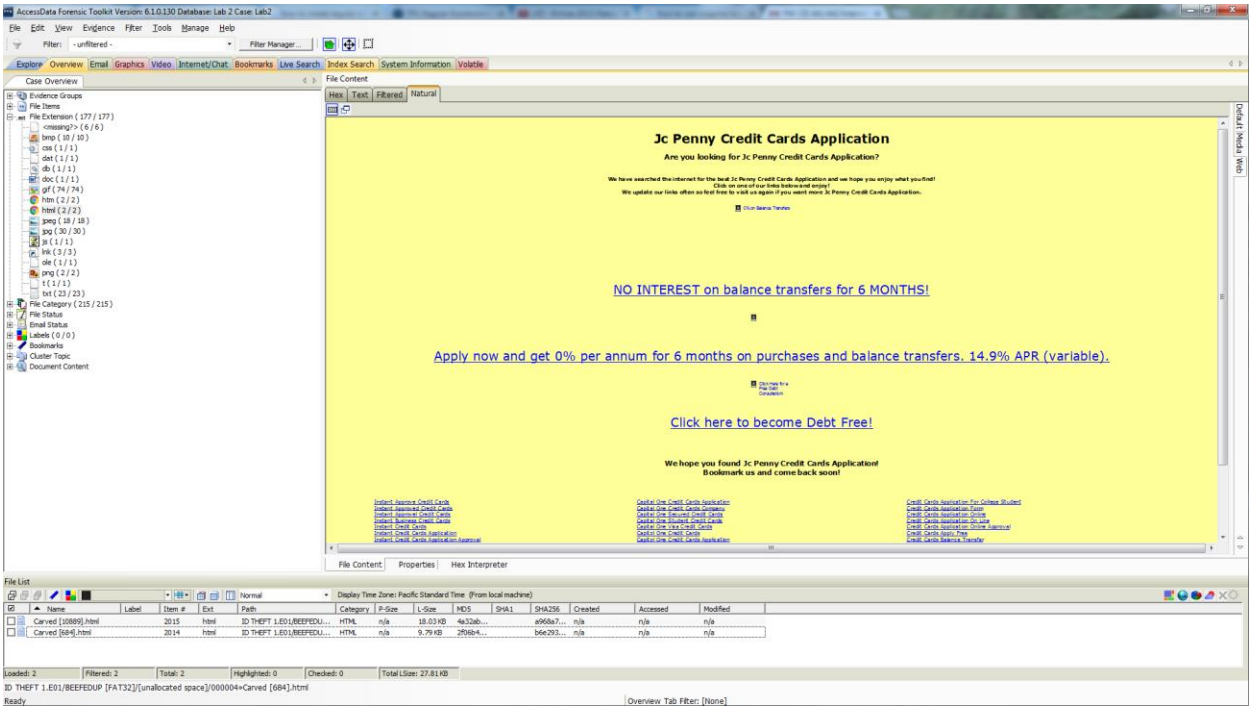


Photo 16: JCPenny phishing site

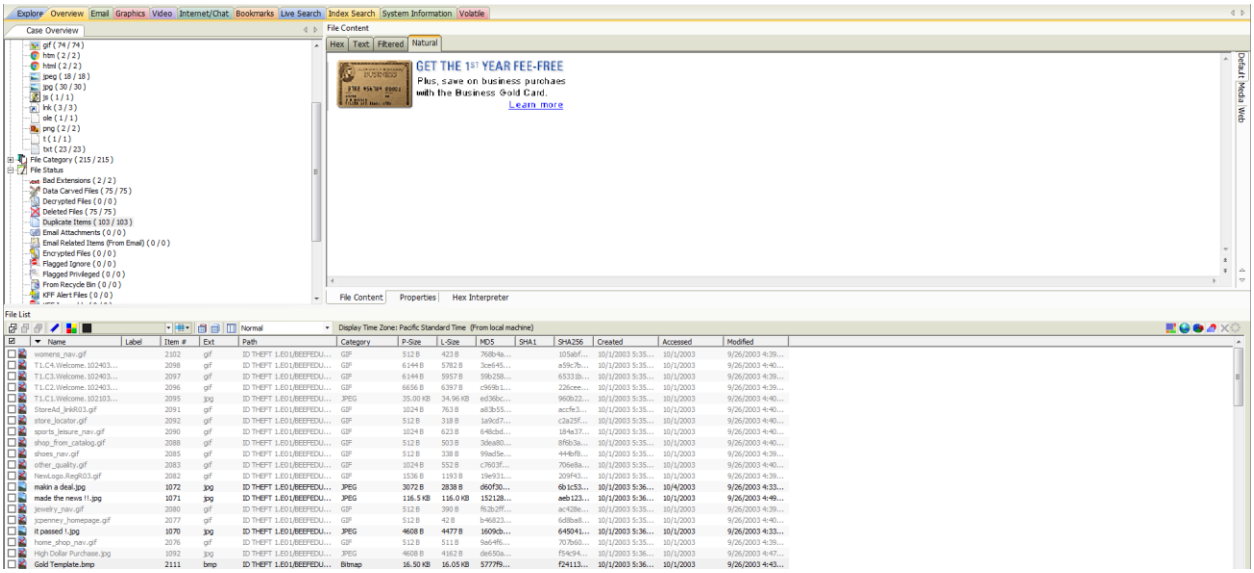


Photo 17: Advertisement on a good deal if we create card now for a gold card

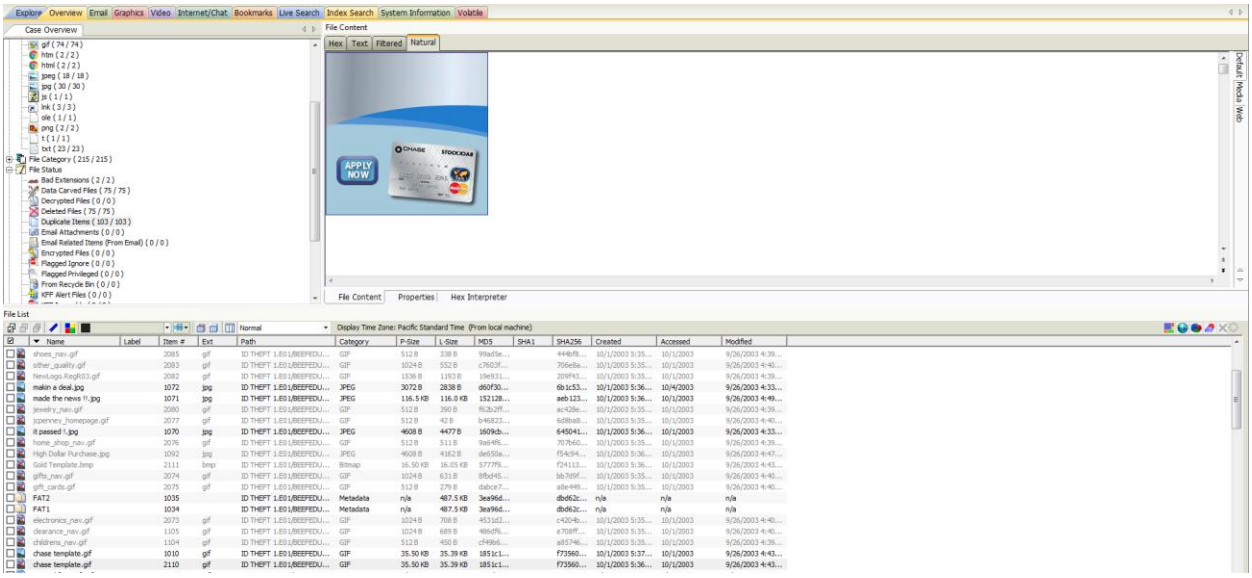


Photo 18: Advertisement on a good deal if we create card now for a Chase card

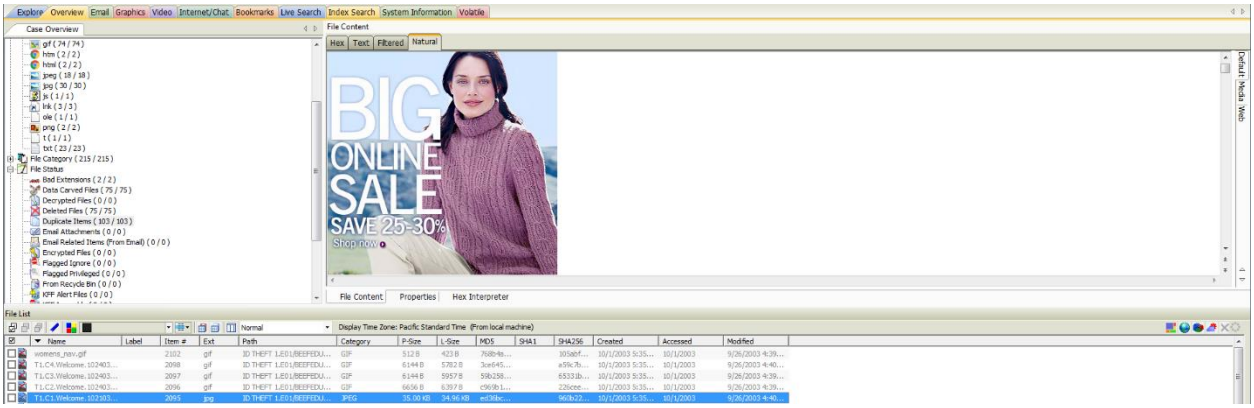


Photo 19: Advertisement on a JCPenny sale

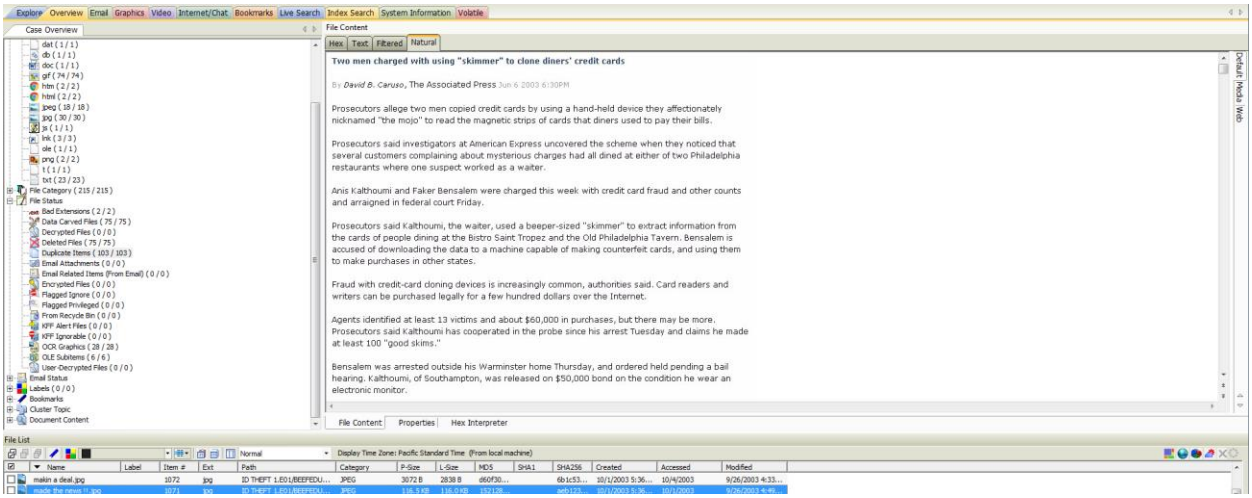


Photo 20: Suspect saved an image of a news article that featured his criminal work

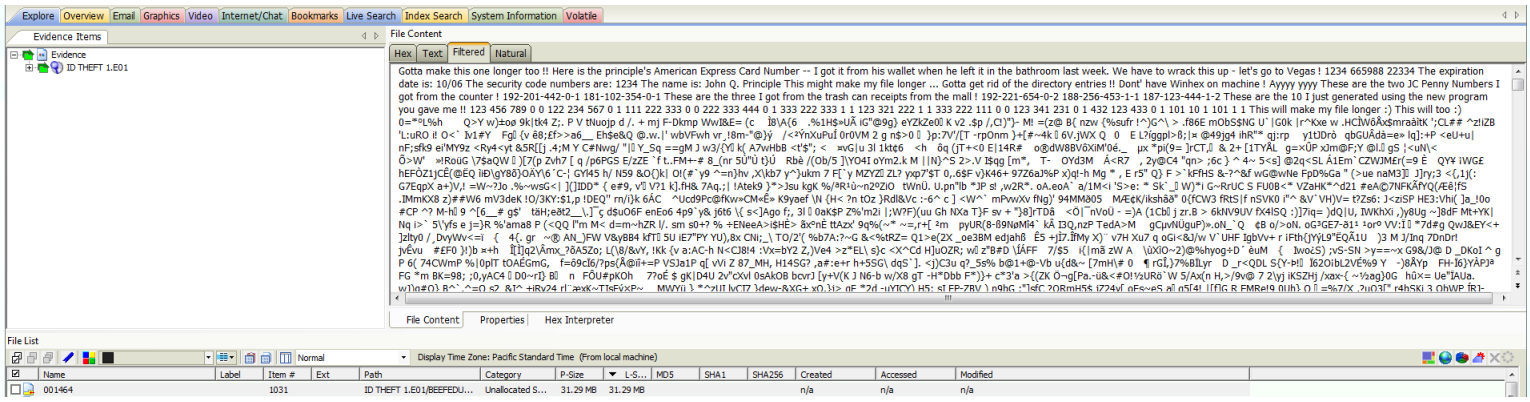


Photo 21: Suspect had some text on the file "001464" that discusses theft of an American Express Card Number as well as the information on the owner of the card

Suspect's Travel Plans

Based on the suspect's photos on UK identification cards & U.S. Passport, it is a possibility that he may want to travel to one of those 2 places. Since he is creating counterfeit U.S. bills, we can assume that he lives in the U.S. so it is likely that if he were to travel it would be to the UK.

Registry Analysis

We began the Registry Analysis portion of the LAB by using FTK to extract the “NTUSER.DAT, System.DAT, SAM.DAT and SECURITY.DAT” registry files from the image. We have provided answers to the questions listed for this portion of the assignment below.

Elvis was in possession of all three illegal MP3 Files: “La Femme Nikita” Maine Theme (club Version), Copy of “La Femme Nikita,” “Spies” by Coldplay, “How You Remind Me” (Acoustic) by Nickelback.”

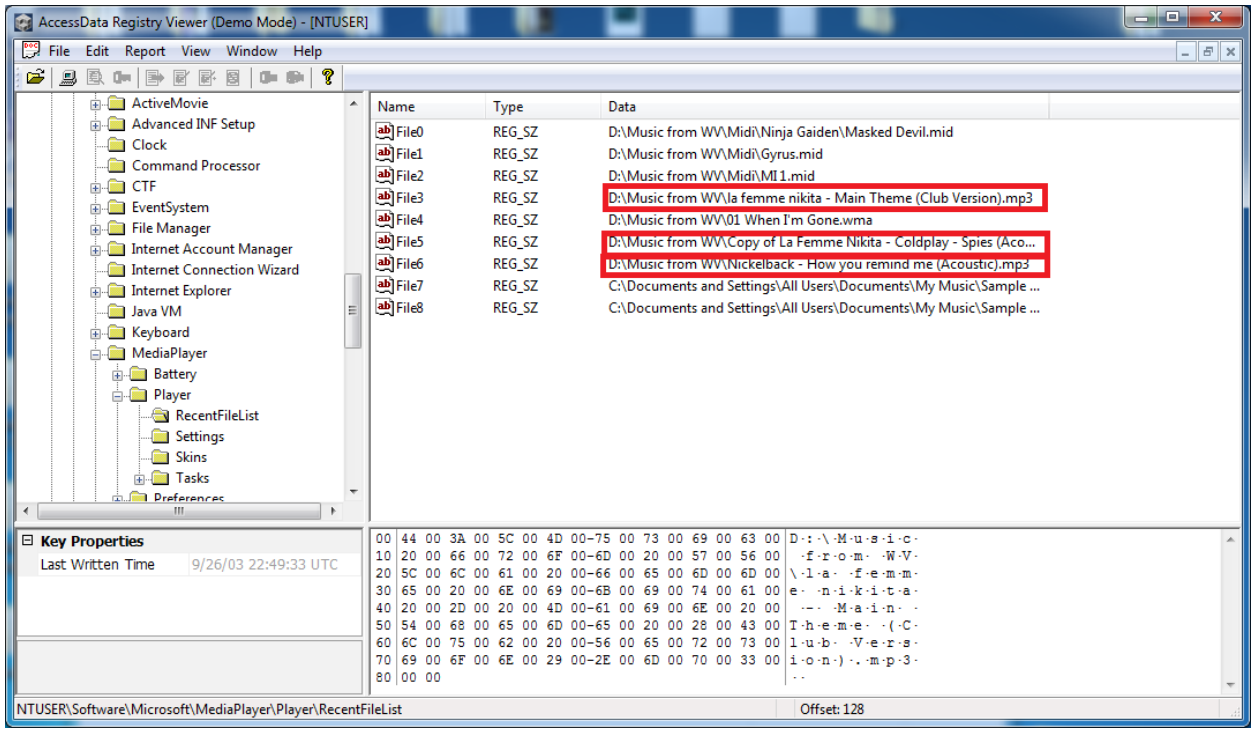


Photo 22: Three red boxes identifying the three instances of illegal MP3 Files: “La Femme Nikita” Maine Theme (club Version), Copy of “La Femme Nikita,” “Spies” by Coldplay, “How you Remind Me” (Acoustic) by Nickelback.”

2.Elvis was using a “hp deskjet 3820 series” printer, which corroborates with the several paper documents found in Elvis’s locker.

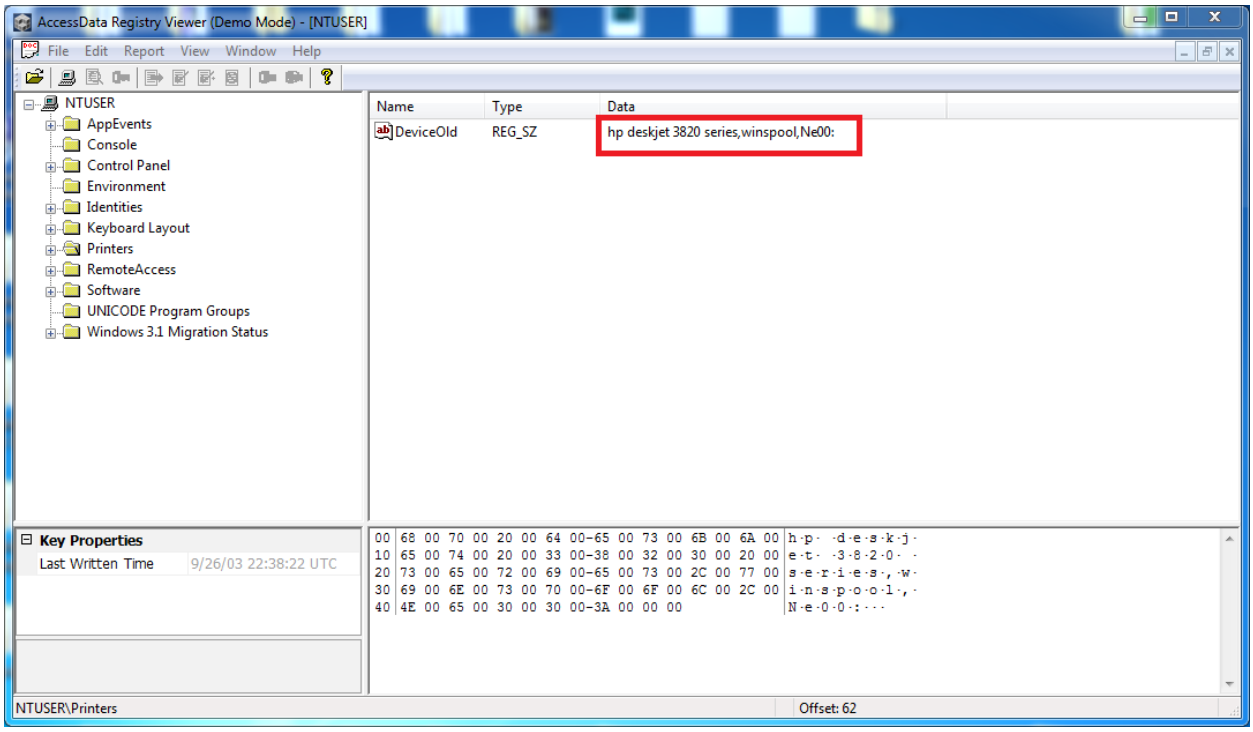


Photo 23: A red box highlighting what printer Elvis has used (hp deskjet 3820 series).

3. Evidence proving that Elvis maintained a POP e-mail account with the IRS fake-id site.

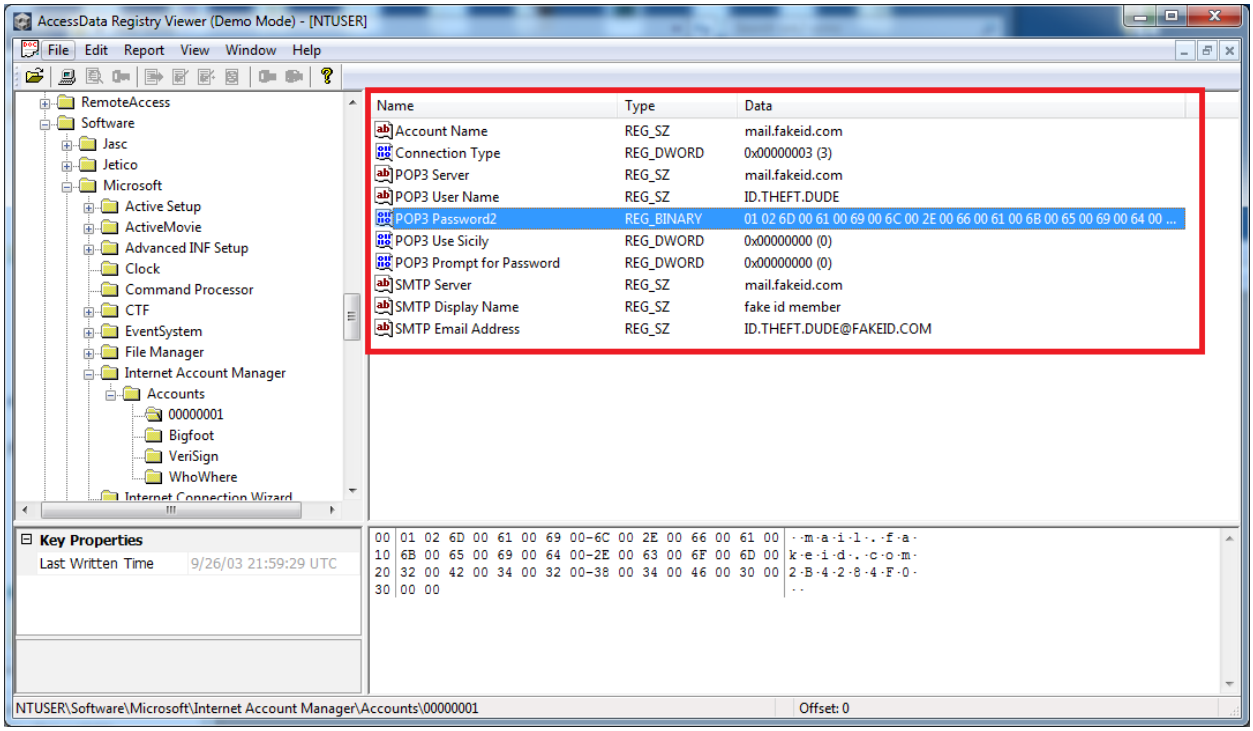


Photo 24: A red box highlighting the details of Elvis's POP e-mail account with the IRS fake-ID site. The password key is ..m.a.i.l...f.a.k.e.i.d...c.o.m.2.B.4.2.8.4.F.0...

4. Evidence showing Elvis's Internet Explorer homepage is: "http://www.microsoft.com/isapi/redir.dll?prd=ie&pver=6&ar=msnhome"

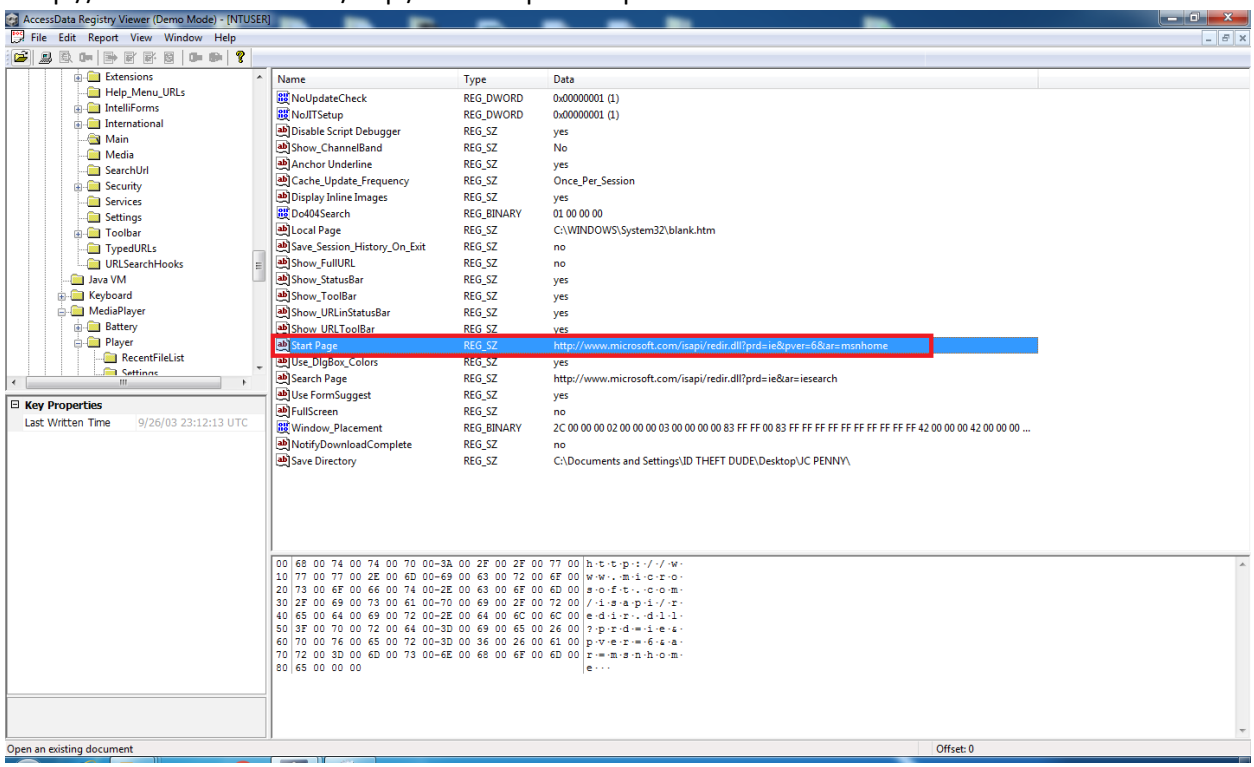


Photo 25: A red box highlighting the "Start Page" key in the NSUSER.DAT registry file.

5. Evidence showing the last location that Elvis downloaded something from using internet explorer, which was "C:\Documents and Settings\ID THEFT DUDE\Desktop\JC PENNY\"

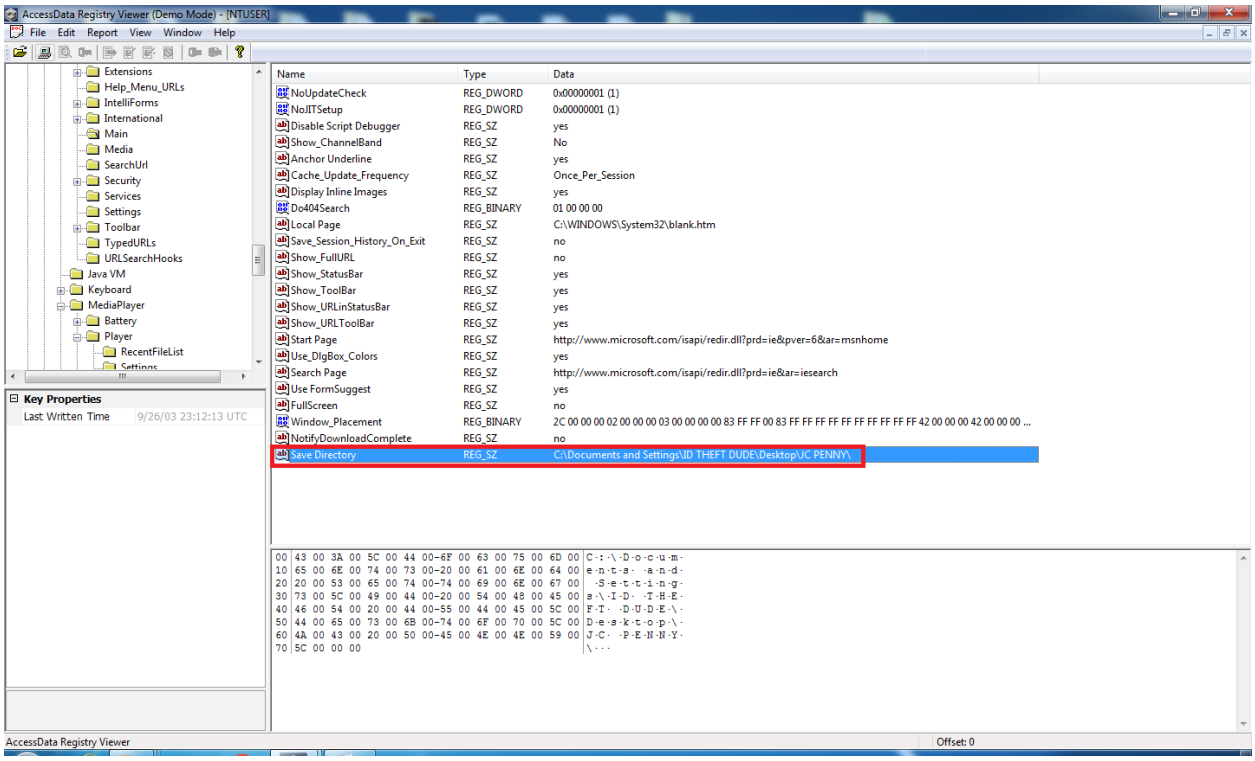


Photo 26: A red box highlighting the last location Elvis downloaded something from Internet Explorer.

6. Evidence showing:

a. Internet Explorer Typed URL's:

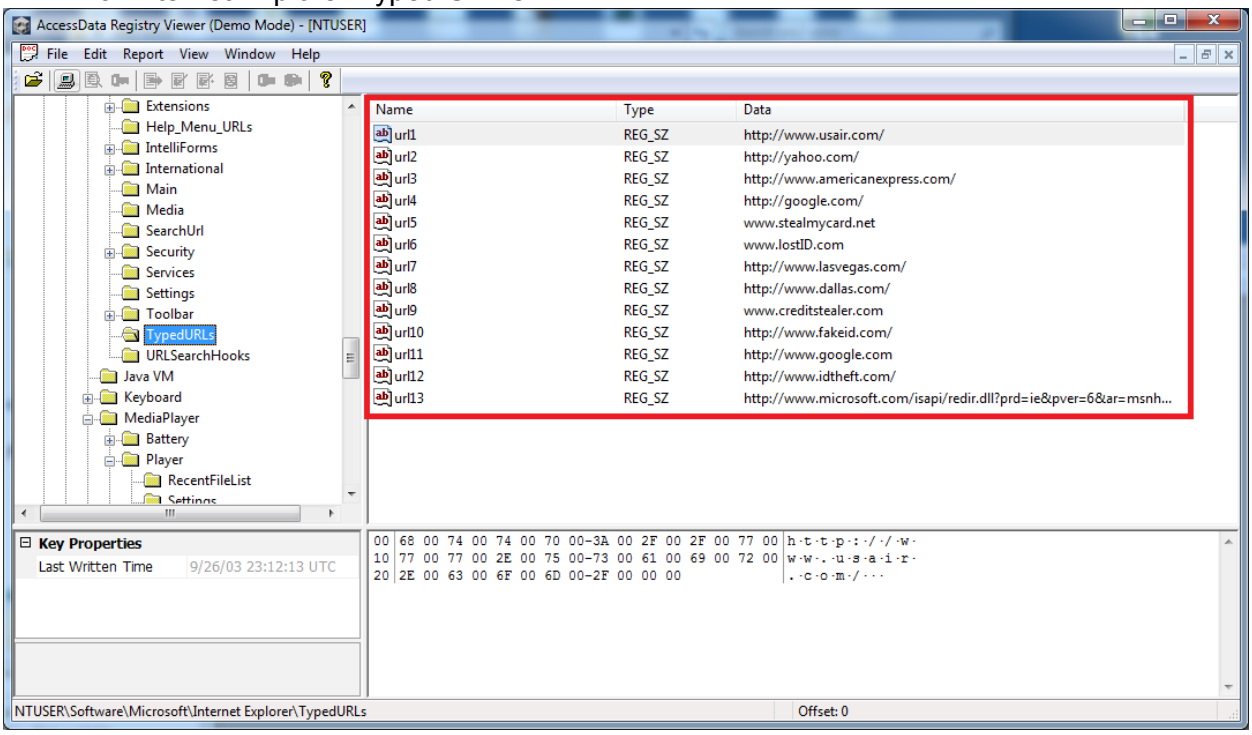


Photo 27: A red box highlighting the Internet Explorer Typed URL's.

b. Recent Documents (all categories)

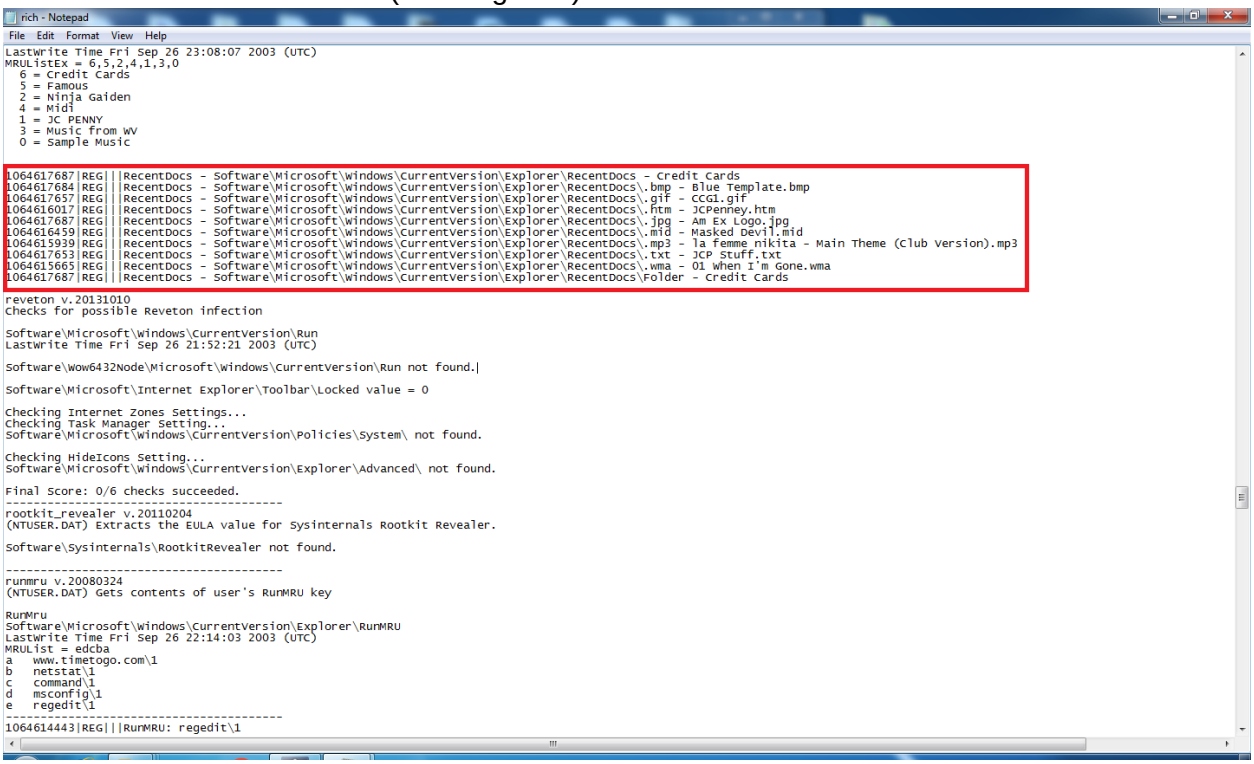


Photo 28: A screenshot with a red box highlighting the Run MRU list information.

c. Run MRU list information

```
rich - Notepad
File  Edit  Format  View  Help
runmru v.20080324
(NTUSER.DAT) Gets contents of user's RunMRU key

RunMru
Software\Microsoft\Windows\CurrentVersion\Explorer\RunMRU
LastWrite Time Fri Sep 26 22:14:03 2003 (UTC)
MRUList = edcba
a   www.timetogo.com\1
b   netstat\1
c   command\1
d   msconfig\1
e   regedit\1
----------------------------------------
1064614443|REG|||RunMRU: regedit\1
----------------------------------------
Software\7-Zip not found.
Software\Wow6432Node\7-Zip not found.
----------------------------------------
shc v.20130412
(NTUSER.DAT) Gets SHC entries from user hive

Software\Microsoft\Windows\CurrentVersion\UFH\SHC not found.
----------------------------------------
shellbags_xp v.20130102
(NTUSER.DAT) Shell/BagMRU traversal in XP NTUSER.DAT hives

MRU Time            |Modified            | Accessed           | Created            | Zip_Subfolder      |Resource
------------        |------------        | ------------       | ------------       | ------------       |------------
2003-09-26 23:09:23 |                    |                    |                    |                    |Desktop\Explorer
                    |                    |                    |                    |                    |Desktop\My Documents
2003-09-26 22:36:20 |2003-09-26 21:51:36 | 2003-09-26 21:51:32 | 2003-09-26 21:51:06 |                    |Desktop\My Documents\My Pictures
                    |2003-09-26 21:51:36 | 2003-09-26 21:51:24 | 2003-09-26 21:51:06 |                    |Desktop\My Documents\My Music
                    |                    |                    |                    |                    |Desktop\My Computer
                    |                    |                    |                    |                    |Desktop\My Computer\C:\
                    |2003-09-26 21:50:54 | 2003-09-26 21:50:54 | 2003-09-07 00:15:54 |                    |Desktop\My Computer\C:\Documents and Settings
                    |2003-09-07 06:54:30 | 2003-09-26 21:30:24 | 2003-09-07 06:54:28 |                    |Desktop\My Computer\C:\Documents and Settings\Jo Ellen
2003-09-26 22:22:40 |2003-09-20 18:48:18 | 2003-09-26 21:45:34 | 2003-09-07 06:54:28 |                    |Desktop\My Computer\C:\Documents and Settings\Jo Ellen\Desktop
                    |2003-09-19 02:42:28 | 2003-09-26 21:23:08 | 2003-09-19 02:42:26 |                    |Desktop\My Computer\C:\Documents and Settings\HTCIA
2003-09-26 22:22:47 |2003-09-19 03:40:08 | 2003-09-26 22:22:46 | 2003-09-19 02:42:26 |                    |Desktop\My Computer\C:\Documents and Settings\HTCIA\Desktop
                    |2003-09-07 06:34:36 | 2003-09-26 22:11:36 | 2003-09-07 00:15:54 |                    |Desktop\My Computer\C:\Documents and Settings\All Users
2003-09-26 22:23:02 |2003-09-26 20:15:12 | 2003-09-26 21:22:18 | 2003-09-07 00:16:56 |                    |Desktop\My Computer\C:\Documents and Settings\All Users\Desktop
2003-09-26 22:30:54 |2003-09-26 21:50:58 | 2003-09-26 21:50:58 | 2003-09-26 21:50:54 |                    |Desktop\My Computer\C:\Documents and Settings\ID THEFT DUDE
                    |2003-09-26 22:22:14 | 2003-09-26 22:24:36 | 2003-09-26 21:50:56 |                    |Desktop\My Computer\C:\Documents and Settings\ID THEFT DUDE\Rece
2003-09-26 22:37:56 |2003-09-07 00:16:56 | 2003-09-26 21:50:56 | 2003-09-26 21:50:56 |                    |Desktop\My Computer\C:\Documents and Settings\ID THEFT DUDE\Star
2003-09-26 22:38:14 |2003-09-26 22:13:26 | 2003-09-26 22:13:34 | 2003-09-07 00:17:30 |                    |Desktop\My Computer\C:\Program Files
2003-09-26 22:39:06 |2003-09-25 19:09:52 | 2003-09-26 21:46:12 | 2003-09-10 03:59:22 |                    |Desktop\My Computer\C:\Program Files\Paint Shop Pro 5
2003-09-26 22:39:04 |2003-09-10 04:04:12 | 2003-09-26 22:38:06 | 2003-09-10 03:59:28 |                    |Desktop\My Computer\C:\Program Files\Paint Shop Pro 5\Images
2003-09-26 22:42:37 |                    |                    |                    |                    |Desktop\My Computer\D:\
2003-09-26 22:31:03 |2003-08-25 01:59:02 | 2003-08-24 06:00:00 | 2003-08-25 01:59:02 |                    |Desktop\My Computer\D:\Music from WV
2003-09-26 22:42:37 |2003-08-25 01:59:14 | 2003-08-24 06:00:00 | 2003-08-25 01:59:14 |                    |Desktop\My Computer\D:\Music from WV\Midi
2003-09-26 22:47:34 |2003-08-25 01:59:14 | 2003-08-24 06:00:00 | 2003-08-25 01:59:14 |                    |Desktop\My Computer\D:\Music from WV\Midi\Ninja Gaiden
                    |                    |                    |                    |                    |Desktop\My Computer\E:\

0x00000000: 32 00 2e 00 0c 00 00 00 00 00 00 00 00 00 00 00  2...............
0x00000010: 00 00 74 1a 59 5e 96 df d3 48 8d 67 17 33 bc ee  ..t.Y^...H.g.3..
0x00000020: 28 ba 47 1a 03 59 72 3f a7 44 89 c5 55 95 fe 6b  (.G..Yr?.D..U..k
0x00000030: 30 ee 00 00                                      0...

                    |                    |                    |                    |                    |Desktop\My Computer\{5e591a74-df96-48d3-8d67-1733bcee28ba}\Users
2003-09-26 22:29:43 |2003-09-07 06:36:32 | 2003-09-26 21:51:06 | 2003-09-07 06:31:54 |                    |Desktop\My Computer\{5e591a74-df96-48d3-8d67-1733bcee28ba}\Users
2003-09-26 22:29:43 |2003-09-07 06:34:00 | 2003-09-19 14:52:34 | 2003-09-07 06:32:46 |                    |Desktop\My Computer\{5e591a74-df96-48d3-8d67-1733bcee28ba}\Users
```

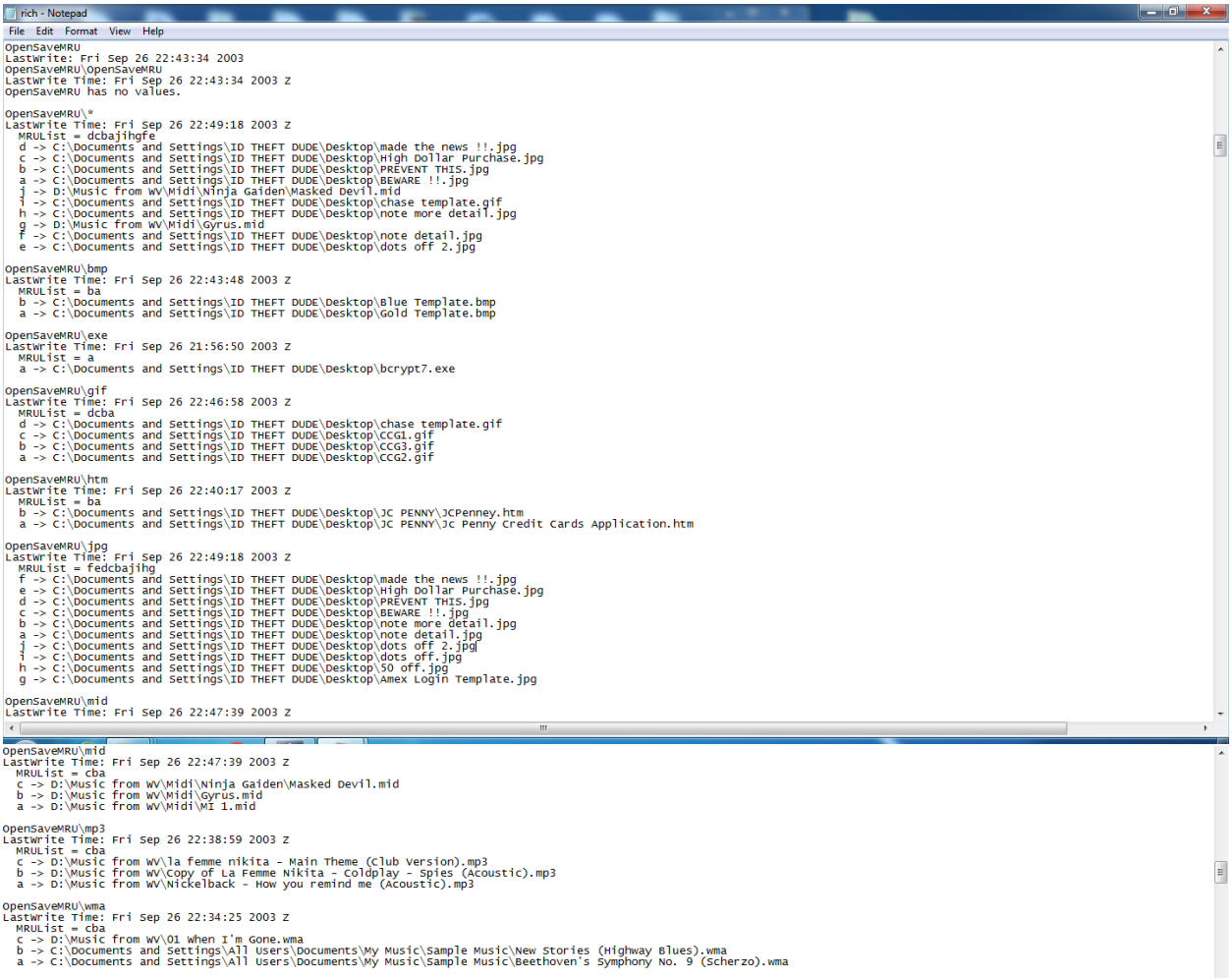
Photo 29: A screenshot detailing the Run MRU list information.

d. Last Visited MRU information

```
rich - Notepad
File  Edit  Format  View  Help
LastWrite Time Fri Sep 26 21:50:56 2003 (UTC)
AutoRun value not found.
----------------------------------------
----------------------------------------
comdlg32 v.20121008

Software\Microsoft\Windows\CurrentVersion\Explorer\ComDlg32
LastWrite Time Fri Sep 26 21:54:31 2003 (UTC)
LastVisitedMRU
LastWrite: Fri Sep 26 22:49:18 2003
  MRUList = cab
  c -> EXE: Psp.exe
    -> Last Dir: C:\Documents and Settings\ID THEFT DUDE\Desktop
  a -> EXE: IEXPLORE.EXE
    -> Last Dir: C:\Documents and Settings\ID THEFT DUDE\Desktop
  b -> EXE: wmplayer.exe
    -> Last Dir: D:\Music from WV\Midi\Ninja Gaiden


OpenSaveMRU
LastWrite: Fri Sep 26 22:43:34 2003
OpenSaveMRU\OpenSaveMRU
LastWrite Time: Fri Sep 26 22:43:34 2003 Z
OpenSaveMRU has no values.

OpenSaveMRU\*
LastWrite Time: Fri Sep 26 22:49:18 2003 Z
  MRUList = dcbajihgfe
  d -> C:\Documents and Settings\ID THEFT DUDE\Desktop\made the news !!.jpg
  c -> C:\Documents and Settings\ID THEFT DUDE\Desktop\High Dollar Purchase.jpg
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\PREVENT THIS.jpg
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\BEWARE !!.jpg
  j -> D:\Music from WV\Midi\Ninja Gaiden\Masked Devil.mid
  i -> C:\Documents and Settings\ID THEFT DUDE\Desktop\chase template.gif
  h -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note more detail.jpg
  g -> D:\Music from WV\Midi\Gyrus.mid
  f -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note detail.jpg
  e -> C:\Documents and Settings\ID THEFT DUDE\Desktop\dots off 2.jpg

OpenSaveMRU\bmp
LastWrite Time: Fri Sep 26 22:43:48 2003 Z
  MRUList = ba
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\Blue Template.bmp
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\Gold Template.bmp

OpenSaveMRU\exe
LastWrite Time: Fri Sep 26 21:56:50 2003 Z
  MRUList = a
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\bcrypt7.exe

OpenSaveMRU\gif
LastWrite Time: Fri Sep 26 22:46:58 2003 Z
  MRUList = dcba
  d -> C:\Documents and Settings\ID THEFT DUDE\Desktop\chase template.gif
  c -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG1.gif
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG3.gif
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG2.gif

OpenSaveMRU\htm
LastWrite Time: Fri Sep 26 22:40:17 2003 Z
  MRUList = ba
```

Photo 30. A screenshot detailing the Last Visited MRU information.

e. Open Saved MRU information



```
rich - Notepad
File  Edit  Format  View  Help
OpenSaveMRU
LastWrite: Fri Sep 26 22:43:34 2003
OpenSaveMRU\OpenSaveMRU
LastWrite Time: Fri Sep 26 22:43:34 2003 Z
OpenSaveMRU has no values.

OpenSaveMRU\*
LastWrite Time: Fri Sep 26 22:49:18 2003 Z
  MRUList = dcbajihgfe
  d -> C:\Documents and Settings\ID THEFT DUDE\Desktop\made the news !!.jpg
  c -> C:\Documents and Settings\ID THEFT DUDE\Desktop\High Dollar Purchase.jpg
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\PREVENT THIS.jpg
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\BEWARE !!.jpg
  j -> D:\Music from WV\Midi\Ninja Gaiden\Masked Devil.mid
  i -> C:\Documents and Settings\ID THEFT DUDE\Desktop\chase template.gif
  h -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note more detail.jpg
  g -> D:\Music from WV\Midi\Gyrus.mid
  f -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note detail.jpg
  e -> C:\Documents and Settings\ID THEFT DUDE\Desktop\dots off 2.jpg

OpenSaveMRU\bmp
LastWrite Time: Fri Sep 26 22:43:48 2003 Z
  MRUList = ba
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\Blue Template.bmp
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\Gold Template.bmp

OpenSaveMRU\exe
LastWrite Time: Fri Sep 26 21:56:50 2003 Z
  MRUList = a
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\bcrypt7.exe

OpenSaveMRU\gif
LastWrite Time: Fri Sep 26 22:46:58 2003 Z
  MRUList = dcba
  d -> C:\Documents and Settings\ID THEFT DUDE\Desktop\chase template.gif
  c -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG1.gif
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG3.gif
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\CCG2.gif

OpenSaveMRU\htm
LastWrite Time: Fri Sep 26 22:40:17 2003 Z
  MRUList = ba
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\JC PENNY\JCPenney.htm
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\JC PENNY\Jc Penny Credit Cards Application.htm

OpenSaveMRU\jpg
LastWrite Time: Fri Sep 26 22:49:18 2003 Z
  MRUList = fedcbajihg
  f -> C:\Documents and Settings\ID THEFT DUDE\Desktop\made the news !!.jpg
  e -> C:\Documents and Settings\ID THEFT DUDE\Desktop\High Dollar Purchase.jpg
  d -> C:\Documents and Settings\ID THEFT DUDE\Desktop\PREVENT THIS.jpg
  c -> C:\Documents and Settings\ID THEFT DUDE\Desktop\BEWARE !!.jpg
  b -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note more detail.jpg
  a -> C:\Documents and Settings\ID THEFT DUDE\Desktop\note detail.jpg
  j -> C:\Documents and Settings\ID THEFT DUDE\Desktop\dots off 2.jpg
  i -> C:\Documents and Settings\ID THEFT DUDE\Desktop\dots off.jpg
  h -> C:\Documents and Settings\ID THEFT DUDE\Desktop\SO off.jpg
  g -> C:\Documents and Settings\ID THEFT DUDE\Desktop\Amex Login Template.jpg

OpenSaveMRU\mid
LastWrite Time: Fri Sep 26 22:47:39 2003 Z
```

```
OpenSaveMRU\mid
LastWrite Time: Fri Sep 26 22:47:39 2003 Z
  MRUList = cba
  c -> D:\Music from WV\Midi\Ninja Gaiden\Masked Devil.mid
  b -> D:\Music from WV\Midi\Gyrus.mid
  a -> D:\Music from WV\Midi\MI 1.mid

OpenSaveMRU\mp3
LastWrite Time: Fri Sep 26 22:38:59 2003 Z
  MRUList = cba
  c -> D:\Music from WV\la femme nikita - Main Theme (Club Version).mp3
  b -> D:\Music from WV\Copy of La Femme Nikita - Coldplay - Spies (Acoustic).mp3
  a -> D:\Music from WV\Nickelback - How you remind me (Acoustic).mp3

OpenSaveMRU\wma
LastWrite Time: Fri Sep 26 22:34:25 2003 Z
  MRUList = cba
  c -> D:\Music from WV\01 When I'm Gone.wma
  b -> C:\Documents and Settings\All Users\Documents\My Music\Sample Music\New Stories (Highway Blues).wma
  a -> C:\Documents and Settings\All Users\Documents\My Music\Sample Music\Beethoven's Symphony No. 9 (Scherzo).wma
```

Photo 31 & 32: A screenshot showing the Open Saved MRU information.

7a. After analyzing the SYSTEM registry file, we have concluded that at least one or more portable storage devices in Elvis's school locker have been connected to his machine.

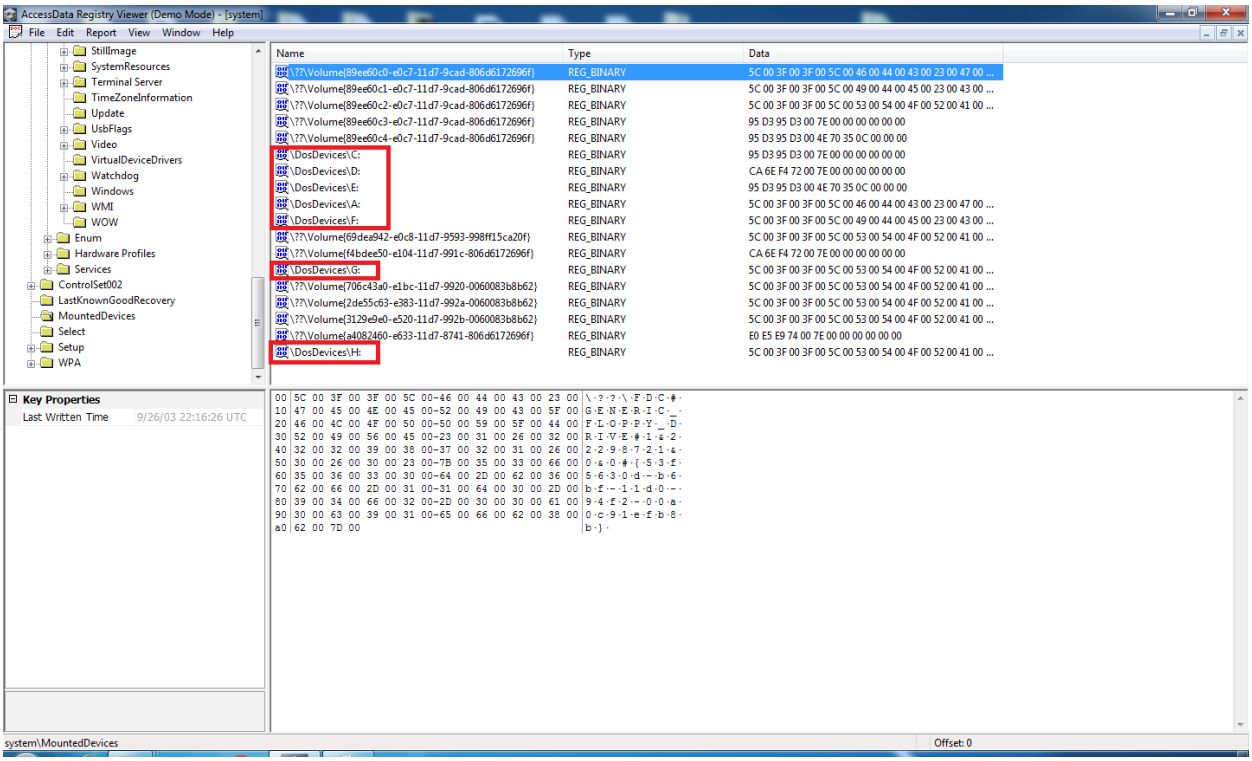
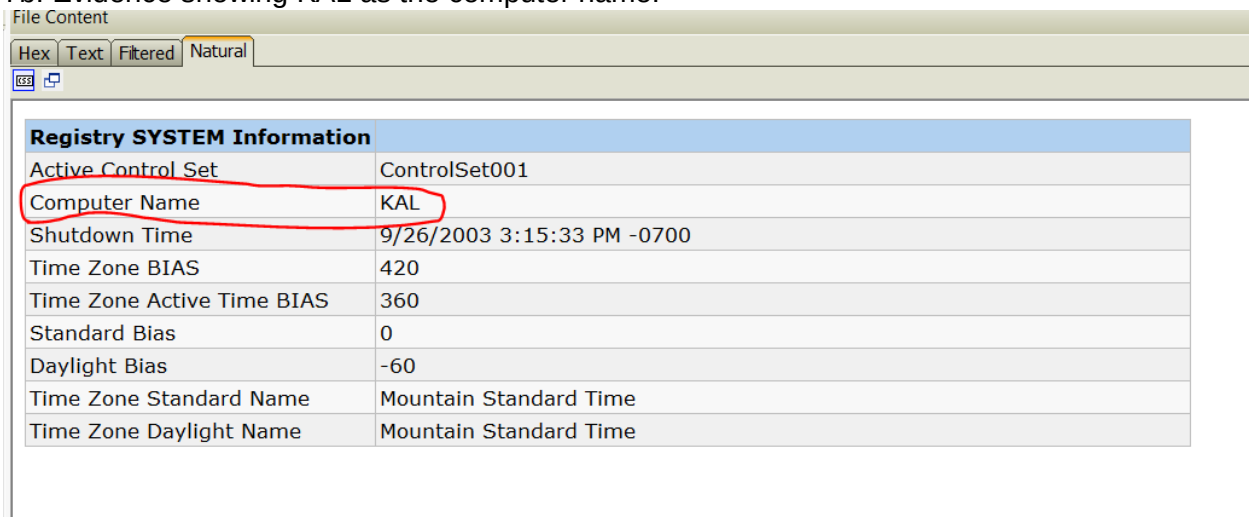


Photo 33 : A screenshot with a red box highlighting the portable storage devices in Elvis's school locker have been connected to his machine.

7b. Evidence showing KAL as the computer name.



File Content

Hex | Text | Filtered | Natural

Registry SYSTEM Information	
Active Control Set	ControlSet001
Computer Name	KAL
Shutdown Time	9/26/2003 3:15:33 PM -0700
Time Zone BIAS	420
Time Zone Active Time BIAS	360
Standard Bias	0
Daylight Bias	-60
Time Zone Standard Name	Mountain Standard Time
Time Zone Daylight Name	Mountain Standard Time

Photo 33 : A screenshot with a red circle highlighting the computer name "KAL".

8. After analyzing the SAM file, we found evidence that Elvis's last log on time was 9/26/2003, 19:48:16 UTC.

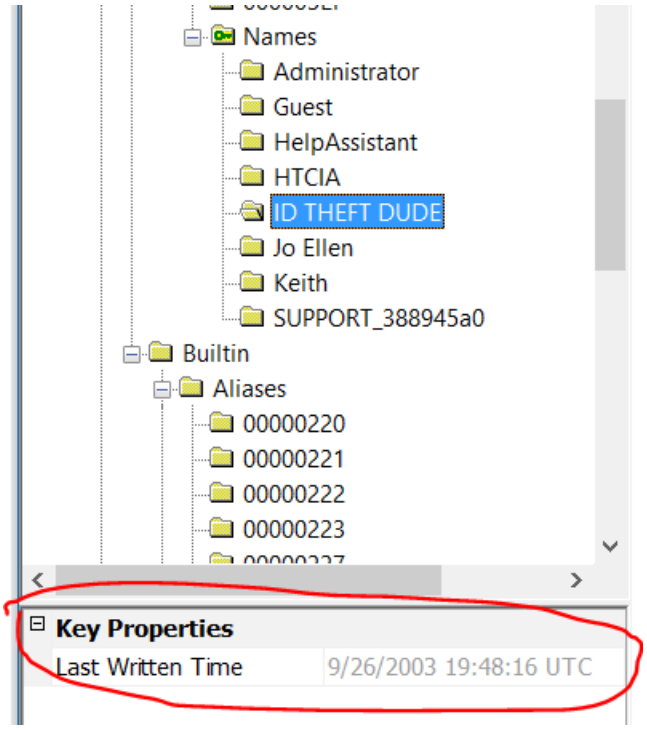


Photo 34: A screenshot with a red circle highlighting the last written time of the "ID THEFT DUDE" account.

9a. There were 39 allocated graphics created on October 1, 2003.

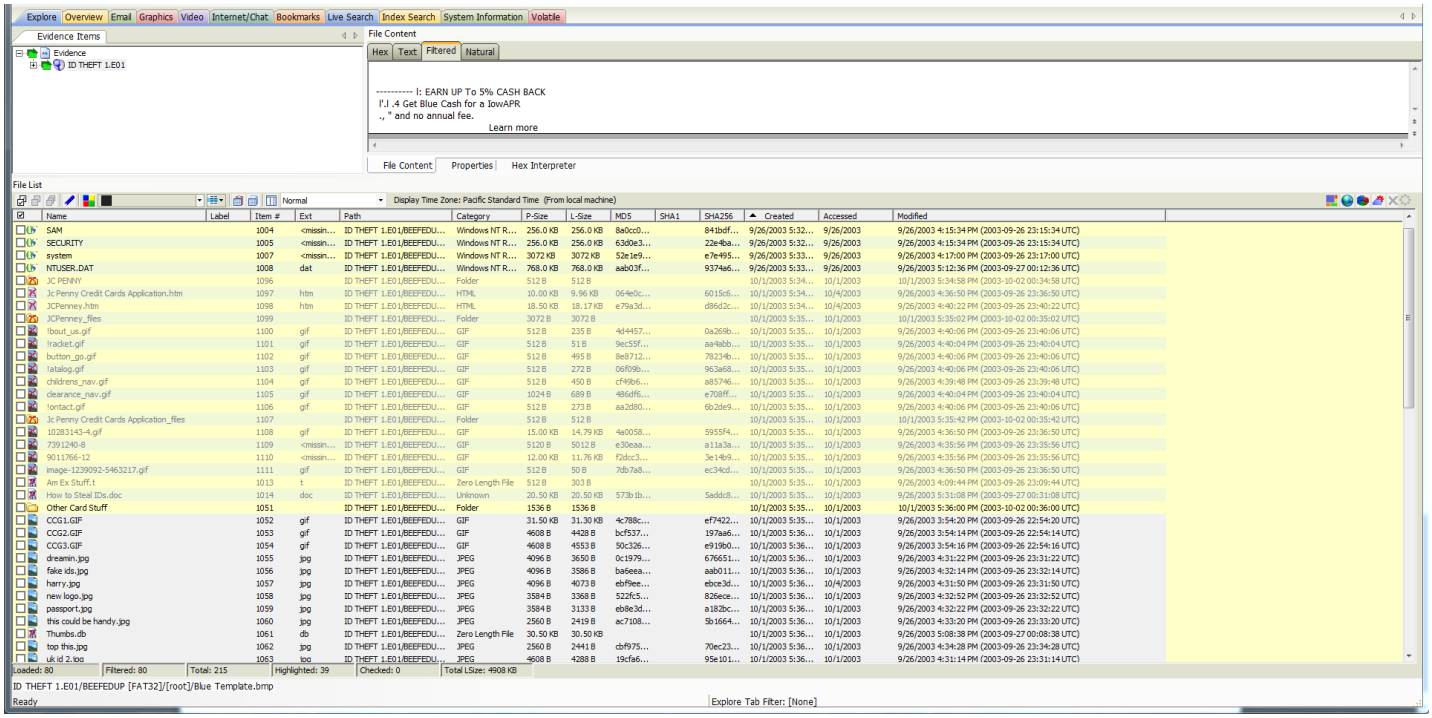


Photo 35: A screenshot showing the 39 allocated graphic hits

9b. There were 31 deleted graphics

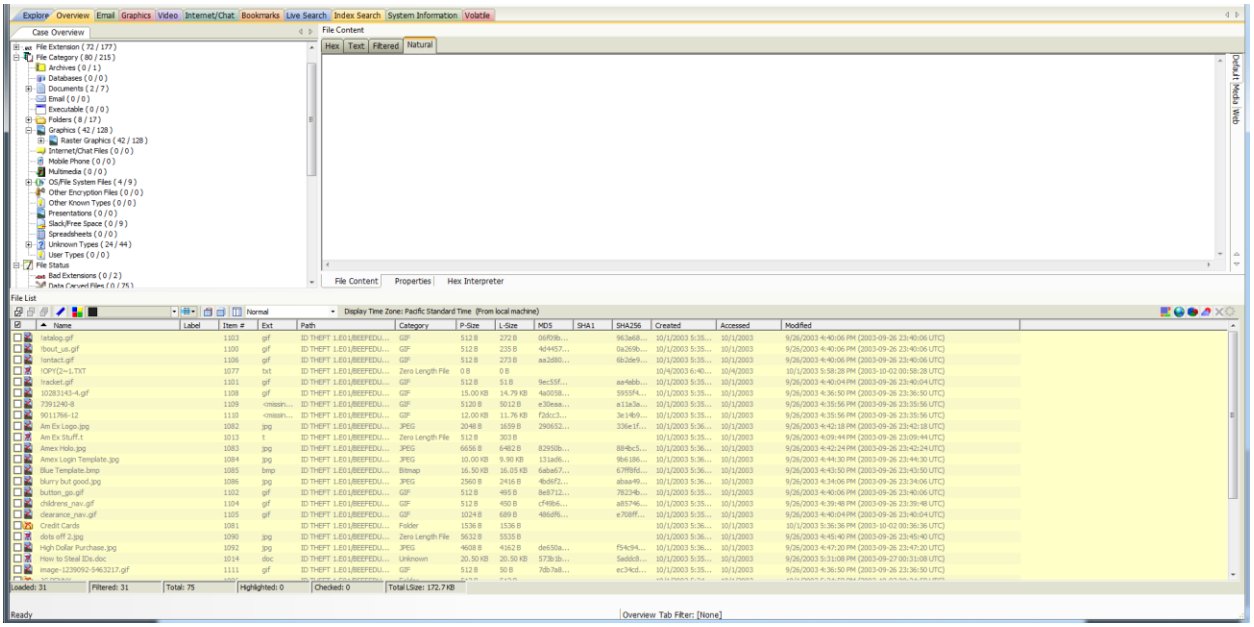


Photo 36: Screenshot showing deleted graphics

9c. There were 4 allocated duplicate graphics with a logical size between 6-11 kb

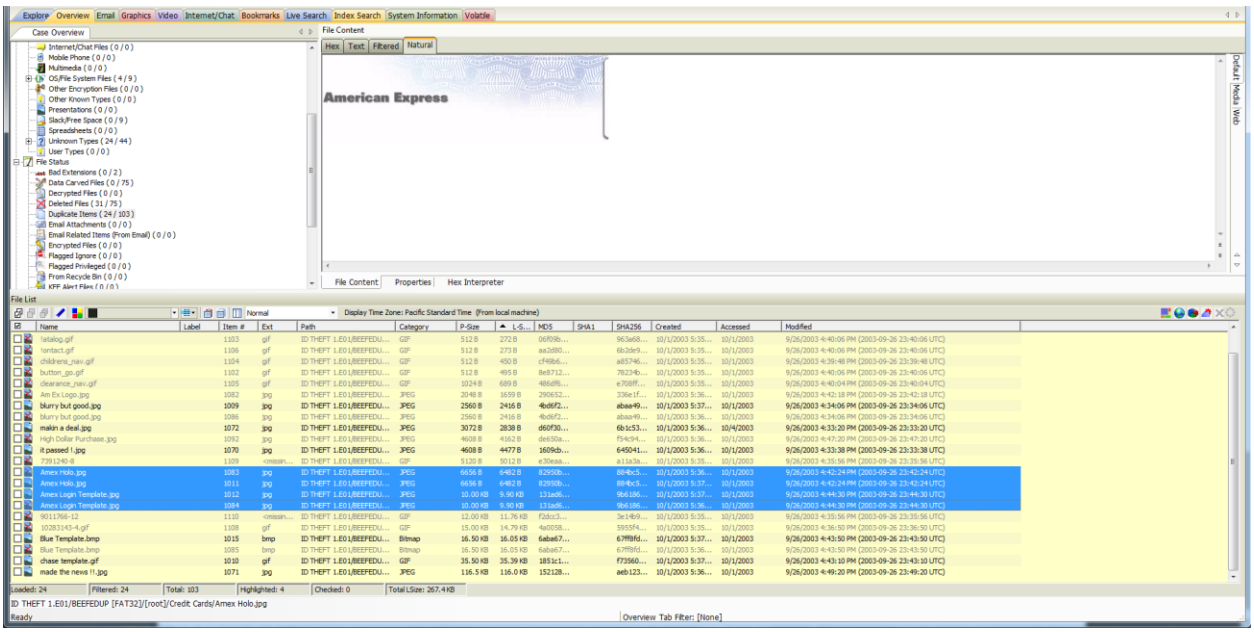


Photo 37: Screenshots of allocated duplicate graphics between 6-11 KB

Executive Summary

Our analysis of the “ID THEFT.E01” image shows that there may be multiple instances of evidence that can corroborate Elvis with the offenses of counterfeiting U.S. currency, U.S. passports and theft of credit card information. There is a possibility that Elvis has upcoming travel plans due to his possession of UK identification cards and a U.S. passport, but we cannot conclude that he actually has any plans. Our analysis of the registry documents evidence that Elvis was in possession of illegal MP3 files, maintained a POP e-mail account, connected portable storage devices and more.

Team Contract

Project Name: CIS 481 Lab 2

Project Team Members Names and Sign-off:

Name	**Sign-off on Team Contract**
Lam Luong	
Sam Zheng	
William Zaourbekov	
Lima Sim	

Code of Conduct: As a project team, we will:

- Work together to complete the Forensics Project
- Keep all of the team members informed on project assignments and developments
- Respect other team members and their ideas

Participation: We will:

- Actively provide our input for the project
- Distribute project work equally among team members
- Provide quality work to complete the project
- Inform the team prior to an absence

Communication: We will:

- Make sure each team member is up to date with project status
- Actively discuss open issues
- Use email and group meetings as means of communication
- Inform each other of any problems encountered

Problem Solving: We will:

- Encourage team members to provide their view
- Make use of possible solutions brought up by team members
- Use positive attitude to benefit the team