

EnCase Computer Analysis Report Case 245 JRE1

INVESTIGATING AGENCY

Investigating Force

Gwent Police

Investigating Officer:

DC M Harris

EXAMINATION AGENCY

Examiner

Mr Gary Probert
Hi-Tech Crime Unit
Police HQ
Cwmbran,
Gwent NP44 2XJ
01633 642510

Additional Information

I am a civilian Computer Crime Investigator in the Gwent Police, stationed at Police Headquarters Croesyceiliog. Until the 16th June 2002, I was a serving Police Officer with the rank and collar number of Detective Constable 720.

I have responsibility for the forensic examination of computer hardware and software. These examinations being conducted in accordance with the recommendations of the ACPO 'Good Practice Guide for Computer Based Evidence'. I have been examining computers since 1995

I use proprietary software programs for forensic imaging and processing of computer drives (storage devices), floppy disks and Compact Disks, one of which, is an application called EnCase, which was specifically developed by the firm of Guidance Software Inc. for that purpose. The software is licensed to the Gwent Police.

I have been trained in the use of Encase by Guidance Software Inc at their head office-training suite at Pasadena, California USA at Intermediate level for Computer Forensic Examinations,

I have completed the Expert Level Series of courses for NTFS Phase 1 and NTFS Phase 2 also at the head office-training suite at Pasadena, California

I am a part time instructor for Guidance Software and regularly train students at their Liverpool Training Office. I have trained courses at Introductory, Intermediate level and the Internet and Email course.

I have passed the Guidance Software accreditation process and am an 'Encase Certified Examiner'

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The accreditation process for The EnCase Certified Examiner (EnCE) program certifies both public and private sector professionals in the use of Guidance Software's EnCase computer forensic software.

EnCE certification acknowledges that professionals have mastered computer investigation methodology as well as the use of EnCase during complex computer examinations. Recognized by both the law enforcement and corporate communities as a symbol of in-depth computer forensics knowledge, EnCE certification illustrates that an investigator is a skilled computer examiner

ENCASE METHODOLOGY

Encase allows the operator to create a complete physical bit-stream mirror image of a target drive/disk in a completely non-invasive (forensic) manner. The acquired bit-stream mirror image called an Evidence File is mounted as a read-only file or virtual drive from which EnCase proceeds to reconstruct the file structure utilizing the logical data in the bit-stream image

This allows the examiner to preview or acquire and examine the contents of the suspect drive/disk in a DOS or Windows environment. Acquisition in Windows is facilitated by use of a device called FAST BLOC, which has been designed and supplied by Guidance Software to enable the examiner to preview or acquire the drive in that environment without making changes to files on the suspect hard drive. It works by preventing anything being written to the hard drive.

To preview or acquire the image in a DOS environment a forensic boot disk is used to lock the suspect drive, which also prevents changes to that hard drive

The Encase generated report will note the use of the FAST BLOCK device when it is used to acquire the image

Throughout this acquisition process the bit stream image is continually verified by both a Cyclical Redundancy Checksum (CRC) value for every 32k block, and an MD5 hash calculated for all data contained in the Evidence File. Both the CRC and MD5 hash values are immediately assigned to the evidence file upon acquisition. On initially opening the case file or adding evidence to the case file the verification process commences and the values are compared and recorded in a report automatically generated by the program

The CRC used to verify the integrity of each block of data is order sensitive. The odds that two different data blocks produce the same CRC are roughly 1 in 4 billion.

The MD5 hash value is a unique 128-bit fingerprint (represented by a 16 digit hexadecimal number) or message digest, and identifies the contents of a specific file. It is a unique file and there are 2128 or 3.402823669209e+38 different possible hash values. The odds that two different files will produce the same MD5 hash value are 340,000,000,000,000,000,000,000,000,000,000 to 1.

An MIT report conjectured that it was computationally infeasible to produce two files having the same message digest, or to produce a file having a given pre-specified target message digest.

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CHARGES - Distributing Indecent Images of Children

On 10/05/03 at Newport in the County of Gwent, did distribute an indecent image of a child identified as brent22.jpg by means of an email entitled 'to join'

Contrary to Section 1(1)(b) Protection of Children Act 1978

On 10/05/03 at Newport in the County of Gwent, did distribute an indecent image of a child identified as cs083.jpg by means of an email entitled 'to join'

Contrary to Section 1(1)(b) Protection of Children Act 1978

CHARGES - Making Indecent Images of Children

Movies Images Level 5

On 20/03/03 22:46:24 at Newport in the County of Gwent, did make an indecent image of a child identified as assfuck02.mpg

Contrary to Section 1 Protection of Children Act 1978

On 20/03/03 22:46:37 at Newport in the County of Gwent, did make an indecent image of a child identified as new08[1].mpg

Contrary to Section 1 Protection of Children Act 1978

Graphic Images Level 5

On a date between 10/04/03 and 16th May 2003 at Newport in the County of Gwent, did make an indecent image of a child identified as chamber55.jpg

Contrary to Section 1 Protection of Children Act 1978

Movie Images Level 4

On 20/03/03 22:46:21 at Newport in the County of Gwent, did make an indecent image of a child identified as 9bldFuckByMan%20115.mps

Contrary to Section 1 Protection of Children Act 1978

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On 10/04/03 12:09:58 at Newport in the County of Gwent, did make an indecent image of a child identified as babys01%5B1%5D[1].mps

Contrary to Section 1 Protection of Children Act 1978

On 08/04/03 19:48:30 at Newport in the County of Gwent, did make an indecent image of a child identified as 10yroidboydeepfuck2.wmv

Contrary to Section 1 Protection of Children Act 1978

On 20/03/03 22:46:35 at Newport in the County of Gwent, did make an indecent image of a child identified as hombre y nio penetracion04.wmv

Contrary to Section 1 Protection of Children Act 1978

Graphic Images Level 4

On 01/04/03 22:55:13 at Newport in the County of Gwent, did make an indecent image of a child identified as mnby104 copy.jpg

Contrary to Section 1 Protection of Children Act 1978

On 20/03/03 22:44:20 at Newport in the County of Gwent, did make an indecent image of a child identified as bang9.jpg

Contrary to Section 1 Protection of Children Act 1978

On 20/03/03 22:44:20 at Newport in the County of Gwent, did make an indecent image of a child identified as bang8.jpg

Contrary to Section 1 Protection of Children Act 1978

On 13/04/03 13:29:07 at Newport in the County of Gwent, did make an indecent image of a child identified as LL-P1-43.jpg

Contrary to Section 1 Protection of Children Act 1978

On 23/04/03 21:10:51 at Newport in the County of Gwent, did make an indecent image of a child identified as DO.DaFkLiSoHC2.jpg

Contrary to Section 1 Protection of Children Act 1978

On 20/03/03 22:46:15 at Newport in the County of Gwent, did make an indecent image of a child identified as - V BOY BF BY MAN.mpg

Contrary to Section 1 Protection of Children Act 1978

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CIRCUMSTANCES

It is alleged that the suspect Robert SMITH used his credit card to access Russian 'child pornography sites'

INVESTIGATION DETAILS

The evidence was delivered to DC 416 J EVANS on 29-05-03 and placed in a secure store room with access restricted to HTCUC staff

The examination process began 08/10/03.

Items received	Quantity	Notes
Tower computers	1	Global Win Tower Computer JE-1

EXAMINATION DETAILS

Computer Examination

The examination of this computer began at 11.45am the 8th October 2003, and was recorded contemporaneously on an examination record Pol Ref GCP1

The computer had a badge which read Global WIN, it bore serial no CT542320B4DL11K2 and was fitted with the following: -

- Floppy Disk drive
- lomega CD Writer
- DVD reader
- 2 USB (onboard fitted to rear of case)
- 2 USB (onboard fitted to front of case)
- 3 USB2 Ports (PCI card on rear)
- USB lead coming out of rear of case
- Two Ram Strips
- Onboard Sound Card
- PCI Sound Card
- PCI Network Card
- PCI video card
- Modem
- Sound Control Switch coming out of rear of case
- Seagate ST340810A hard drive serial no 3FB2JW17

I removed the Seagate hard drive from the computer

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BIOS Examination

I then returned to the examination of the Global Win computer and attempted to access the Basic Input Output System (BIOS) by pressing the 'delete' key I noted the following

- The BIOS was Award

The BIOS was password protected and I was unable to enter the BIOS using the passwords supplied or by other means

I was able to obtain the following information by using an Encase Forensic Boot Disk, and a Utility called GETTIME

- The system date was correctly set to 10/08/2003
- The system time was set to 13:27:02
- The Correct time was 13:33:50 (BT Speaking clock)

A copy of the utility reading was printed - Pol Ref GCP2

It is not possible to state when the BIOS clock became inaccurate

I was unable to ascertain the boot sequence or the processor speed

Acquisition

I connected the Seagate ST340810A hard drive serial no 3FB2JW17 to a Forensic workstation, kept by Gwent Police specifically for computer examinations, by means of a write blocking device called 'FastBloc' this device was developed specifically to be used in conjunction with Encase and prevents any thing being written back to the suspect drive.

At 2.57pm I commenced taking an image of the Seagate hard drive to directory path D:\Case245\Seagate ST340810A JE1A.E01

At 6.39pm that day the acquisition of the image was completed. 44 CD sized files were generated by the process and these were added automatically to the case file and verified

The acquisition and verification hashes were a match

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COMPUTER ANALYSIS

Seagate ST340810A

Device

Evidence Number: Seagate ST340810A
File Path: D:\Case245\Evidence Files\Seagate ST340810A.E01
Examiner Name: Gary Probert
Actual Date: 08/10/03 13:56:19
Target Date: 08/10/03 13:56:19
Total Size: 40,020,351,488 bytes (37.3GB)
Total Sectors: 78,164,749
File Integrity: Completely Verified, 0 Errors
Write Blocker: FastBloc
EnCase Version: 4.15
System Version: Windows XP
Acquisition Hash: F180FF186C494DAA7A022996AC3ED005
Verify Hash: F180FF186C494DAA7A022996AC3ED005
Notes: Seagate ST340810A sn 3FB2JW17

Partitions

Code	Type	Start Sector	Total Sectors	Size
07	NTFS	0	74,043,585	35.3GB
07	NTFS	74,043,585	4,096,575	2.0GB

Volume C

Volume

File System:	NTFS	Drive Type:	Fixed
Sectors per cluster:	8	Bytes per sector:	512
Total Sectors:	74,043,522	Total Capacity:	37,910,282,240 bytes (35.3GB)
Total Clusters:	9,255,440	Unallocated:	26,284,355,584 bytes (24.5GB)
Free Clusters:	6,417,079	Allocated:	11,625,926,656 bytes (10.8GB)
Volume Name:		Volume Offset:	63
Driver Information:	NTFS 3.1 Chkdsk 0		

The following are bookmarks from Volume C

Seagate ST340810A, Volume C, Windows Version and Registration Information

Windows Version and Registration Information

InstallDate: 10/04/03 16:53:48

ProductName: Microsoft Windows XP

RegisteredOrganization:

RegisteredOwner: Robert SMITH

CurrentVersion: 5.1

CurrentBuildNumber: 2600

SystemRoot: C:\WINDOWS

SourcePath: E:\I386

PathName: C:\WINDOWS

ProductId: 55274-OEM-0012605-72720

Seagate ST340810A, Volume C, Time Zone Settings

Windows Time Zone Settings and Active Time Bias

Current control set is 001.

Default control set is 001.

Failed control set is 000.

LastKnownGood control set is 002.

Standard time bias is 0 hours offset from GMT.

StandardName: GMT Standard Time

Standard time is set to change the Standard bias by 0 minutes.

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Standard time is set to change on Sunday of the 5th week of October, at 02:00 hours.

DaylightName: GMT Daylight Time

Daylight savings is set to change the Standard bias by -60 minutes.

Daylight savings time is set to change on Sunday of the 5th week of March, at 01:00 hours.

Active time bias is -1 hours offset from GMT.

The current time setting is -1 hours offset from GMT.

The offset must be either added or subtracted from GMT depending on the time zone location.

Seagate ST340810A, Volume C, Network Information

Windows Network Settings

100MB SPEEDSHARE PCI CARD

IPAddress: 192.168.0.1

SubnetMask: 255.255.255.0

DefaultGateway:

NameServer:

DhcpServer: 255.255.255.255

Time lease was obtained: 11/05/03 12:38:54

Time lease terminates: 11/05/03 13:38:54

IPAutoconfigurationAddress: 0.0.0.0

IPAutoconfigurationMask: 255.255.0.0

The computer account name is "MAIN"

The primary domain name is "HOME"

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Seagate ST340810A, Volume C, Last Shutdown Time

Windows last shutdown time reported by the registry

15/05/03 15:26:15

Seagate ST340810A, Volume C, Windows Users

User name: Administrator

Account Description:	Built-in account for administering the computer/domain
Home Drive Letter:	
Home Directory:	
Primary Group Number:	513
Security Identifier:	S-1-5-21-1417001333-1532298954-839522115-500
Logon Script:	
Profile Path:	
Last Logon:	
Unknown Date:	
Last Password Change:	10/05/03 14:16:41
Last Incorrect Password Logon Attempt:	

User name: Robert

Account Description:	
Home Drive Letter:	
Home Directory:	
Primary Group Number:	513
Security Identifier:	S-1-5-21-1417001333-1532298954-839522115-1003
Logon Script:	
Profile Path:	
Last Logon:	16/05/03 16:23:10
Unknown Date:	
Last Password Change:	10/05/03 14:16:41
Last Incorrect Password Logon Attempt:	16/05/03 16:22:19

User name: Electronic Components

Account Description:	
Home Drive Letter:	
Home Directory:	
Primary Group Number:	513
Security Identifier:	S-1-5-21-1417001333-1532298954-839522115-1008
Logon Script:	
Profile Path:	
Last Logon:	21/04/03 22:40:21
Unknown Date:	
Last Password Change:	10/05/03 14:16:41
Last Incorrect Password Logon Attempt:	16/05/03 16:22:19

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Software: from NTUSER.DAT for user Robert

Extracted from the Windows User's NTUSER.DAT

NOTE: This user's software is in addition to that used by all users - Administrator's software

Adobe

Acrobat
Acrobat Reader
Adobe Gamma
ImageReady 2.0
Photoshop
Registration

Ahead

Cover Designer
InCD
Nero - Burning ROM
nero wave editor

AnalogX

WMPSS

AvantGo

Continuum

AdvOpt
Menu
Options
Passwords
State

CyberLink

PowerDVD

Cycore

Cult3D

DivXNetworks

DivX4Windows
ThePlaya

Google

NavClient

Immersion Corporation

Immersion Desktop
Immersion Web ActiveX Control
TouchSense

Infogrames

Steel Tide

Intel

Indeo

InterTrust

DocBox

Kazaa

Advanced

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InstantMessaging

Kazaa Media Desktop

LocalContent

Promotions

ResultsFilter

Search

Settings

Skins

SOCKS

Transfer

UserDetails

Local AppWizard-Generated Applications

Mixer

MMDiag

Logitech

DesktopMessenger

iTouch

MouseWare

Macromedia

Flash 5

MAL

Menics

Soma Mythological Bibliography

Microsoft

Active Setup

ActiveMovie

Advanced INF Setup

ASF Stream Descriptor File

Automap

Clock

Command Processor

CTF

Direct3D

DirectInput

EventSystem

Exchange

File Manager

FrontPage

Ftp

GDIPlus

IMEMIP

Installer

Internet Connection Wizard

Internet Explorer

Internet Mail and News

Java VM

Keyboard

MediaPlayer

MessengerService

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Microsoft Management Console

MM20

MovieMaker

MPEG2Demultiplexer

MS Design Tools

MSDAIPP

MSNChat

MSNMessenger

Multimedia

NetDDE

NetShow

Notepad

Ntbackup

Office

Outlook Express

PCHealth

Pegasus

Plus!

Protected Storage System Provider

RAS Autodial

RAS Phonebook

RegEdt32

RTC

SAPI Layer

Schedule+

Screensavers

Scrunch

Search Assistant

Shared

Shared Tools

Solitaire

Speech

SQMClient

SystemCertificates

SystemMonitor

TPG

VBA

Visual Basic

Web Service Providers

Windows

Windows CE Services

Windows Help

Windows Media

Windows NT

Windows Script

Windows Script Host

Works

Works Suite

Motive

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SmartBridge

Telco

MozillaPlugins

@adobe.com/Acrobat,version=5.1

Netscape

Netscape Navigator

Netzip

Download Demon

Internet

NVIDIA Corporation

Global

ODBC

ODBC.INI

Palestar

GCQL

Policies

Microsoft

RealNetworks

Msg

Preferences

RDX

RealJukebox

RealMediaSDK

RealPlayer

rnadmin

Update

Visualizations

Sensaura

Audio3D

Soma

Super X Studios

Desktop Dreamscapes

Valve

Half-Life

Webroot

SpySweeper

WebUnity

customer

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Software: from NTUSER.DAT for user Electronic Components

Extracted from the Windows User's NTUSER.DAT

NOTE: This user's software is in addition to that used by all users - Administrator's software

Adobe

Adobe Gamma

F.H.L.P.

ISDN display

Immersion Corporation

Immersion Desktop

Intel

Indeo

Local AppWizard-Generated Applications

Mixer

Logitech

MouseWare

Microsoft

Active Setup

ActiveMovie

Advanced INF Setup

Clock

Command Processor

CTF

EventSystem

File Manager

IEAK

Internet Connection Wizard

Internet Explorer

Keyboard

MediaPlayer

MessengerService

Microsoft Management Console

MovieMaker

Multimedia

NetDDE

NetShow

Ntbackup

Outlook Express

Plus!

Protected Storage System Provider

RAS Autodial

RegEdt32

SAPI Layer

Schedule+

Search Assistant

Speech

SystemCertificates

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Windows

Windows Help

Windows NT

Works

Netscape

Netscape Navigator

Policies

Microsoft

Super X Studios

Desktop Dreamscapes

Seagate ST340810A, Volume C, Mapped Drives for user Robert

Drive: J

RemotePath: \\K500\Backup (D)

UserName:

ProviderName: Microsoft Windows Network

ProviderType:

ConnectionType:

DeferFlags:

Drive: K

RemotePath: \\lgo\HDD (C)

UserName:

ProviderName: Microsoft Windows Network

ProviderType:

ConnectionType:

DeferFlags:

Drive: L

RemotePath: \\K500\c

UserName:

ProviderName: Microsoft Windows Network

ProviderType:

ConnectionType:

DeferFlags:

Volume D

Volume

File System:	NTFS	Drive Type:	Fixed
Sectors per cluster:	4	Bytes per sector:	512
Total Sectors:	4,096,512	Total Capacity:	2,097,412,096 bytes (2.0GB)
Total Clusters:	1,024,127	Unallocated:	1,110,462,464 bytes (1.0GB)
Free Clusters:	542,218	Allocated:	986,949,632 bytes (941.2MB)
Volume Name:	ROBS BACKUP	Volume Offset:	74,043,648
Driver Information:	NTFS 3.1 Chkdsk 0		

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Indecent Images of Children

Examination of the Active files or files which have been deleted but are displayed by the forensic program where it has recovered the file details within the image revealed the following files which are indecent images of children

The below schedule includes files which were contained within compressed files such as zips or other files such as word documents, PowerPoint's, and lost files which occur when Encase recovers deleted files on an NTFS system by parsing the Master File Table (MFT). When a file is deleted, the MFT record is flagged. However, until the record position is overwritten, the file information remains. Encase identifies deleted files in the MFT and attempts to resolve it to it's parent. If the position has been overwritten with a new record, the identification of the parent is unknown and that file is "lost".

Graphic Images

Level 1

There were 713 level 1 images

Level 2

There were 830 level 2 images

Level 3

There were 89 level 3 images

Level 4

There were 76 level 4 images

Level 5

There were 9 level 5 images

Movie Images

Level 1

There were 18 level 1 movie images

Level 2

There were 216 level 2 movie images

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Level 3

There were 22 level 3 movie images

Level 4

There were 19 level 4 movie images

Level 5

There were 2 level 5 movie images

Recovered Indecent Images of Children

Files recovered from unallocated space

Encase is able to recover deleted graphic images by searching through inallocated space for the file 'header' and 'footer' signatures and displaying them as graphic images.

The physical location is that of the start of the unallocated. The file offset value is that of the location of the start of the graphic image from the beginning of the unallocated cluster

The file attributes cannot be displayed as these have been deleted (overwritten) from the Master File Table

Graphic Images

Level 1

There were 522 recovered level 1 images

Level 2

There were 516 recovered level 2 images

Level 3

There were 54 recovered level 3 images

Level 4

There were 43 recovered level 4 images

Level 5

There were 4 recovered level 5 images

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Info2 Records D Drive

The Recycle Bin is a hidden system folder that operates in accordance with different rules than those that govern standard folders. The folder is named Recycler in Windows NT and 2000, and the Recycler contains a Recycle Bin for each user that logs onto the computer. When a user deletes a file within a Windows compliant program, it is moved to the Recycle Bin.

This results in

1. the deletion of the file's Master File Table entry,
2. the creation of a new Master File Table entry for the file with a new name,
3. the addition of information about the file in a hidden system file named INFO2 in the user's Recycle Bin.

When a user sends a file to the Recycler, Windows records the date and time of deletion, which is when the file was sent to the Recycler. The date and time of deletion are stored in the INFO2 file.

Additional information about that file is stored, including its prior location (where the file was when it was sent to the Recycler) and its index number in the Recycler (its order in the Recycler, zero assigned to the first file in the Recycler after the Recycler is emptied). Each file sent to the Recycler receives a new Master File Table entry with a new name. The name is of the format: D [original drive letter of file] [index no] [original extension]. For example, if the Recycler was emptied, and then JCPFS02a.jpe residing in C:\Documents and Settings\Administrator\My Documents\Rockets was sent to the Recycle Bin, JCPFS02a.jpe would be renamed to DC0.jpe. The file's original name and path, its index number in the Recycler, and its date and time of deletion would be appended to the INFO2 file. Each INFO2 file record is 800 bytes in length.

As the user continues to send files to the Recycler, the information pertaining to those files (original name and path, index number, date and time of deletion) is appended to the INFO2 file. When the user empties the Recycler, Windows deletes the files (such as DC0.JPE) in the Recycler, and also deletes the INFO2 file and the Desktop.INI file.

If it is not completely overwritten, the deleted INFO2 file is available for examination. Encase can decode the records in the INFO2 file to identify the dates and times that files were deleted, and also to determine the locations of those files at the time that they were sent to the Recycle Bin. Even if a portion of the INFO2 file is overwritten, the remaining portion may yield the same type of information. The search for INFO2 file records can be conducted in both the allocated and unallocated area of the disk. The most obvious occurrence of INFO2 file records is in an allocated INFO file that is located in the Recycle Bin. The file is intact and is available for examination. The next readily apparent occurrence is when the INFO2 file has been deleted, but there is still a Master File Table entry for the deleted INFO file.

The presence of an INFO2 file record relating to a file, the date of deletion and the original path can be used to confirm or refute the computer user's explanation of the presence or history of the files on a computer. The presence of an INFO2 file record relating to a file indicates that a user knew of the file's presence and sent it to the Recycler. Files deleted by the operating system do not leave a record in the INFO2 file. Thus the user's assertion that, "If it was on the computer, I did not know that it was," is not supported when the investigator is able to locate an INFO2 file record that can be related to the file in question. That INFO2 file record indicates that a user knowingly deleted the file.

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The next level to be examined is less obvious. It occurs when the INFO2 file has been deleted as described above, and the file's Master File Table entry has also been overwritten. There is no readily available indicator that specifies the location of the INFO2 file records, but they may still exist in unallocated space. Encase can conduct a search of unallocated space for unique characteristics of the INFO2 file's contents. Upon identifying those contents, the records may be examined to yield the desired information.

At the far end of the spectrum are the least obvious occurrences of INFO2 file records. These, like the preceding example, exist in unallocated space with no ready indicators of their existence because the INFO2 file's folder entry has been overwritten. An additional level of complexity exists because the first cluster containing the INFO2 file's contents has been partially overwritten, obscuring the unique characteristics present at the beginning of the file. Encase can attempt to identify the INFO2 file records by conducting a search in the unallocated area of the volume, and searching for unique characteristics of the INFO2 file records themselves.

In respect of Computer Pol Ref JRE1 this contains only one recycle bin for user with the SID No S-1-5-21-1417001333-1532298954-839522115-1003 This relates to user ROBERT

CASE245\Seagate ST340810A\D\RECYCLER\S-1-5-21-1417001333-1532298954-839522115-1003\INFO2

Index	Deleted		Path
7	14/05/03	17:37:45	D:\stuff\168.psd
8	14/05/03	17:43:45	D:\stuff\babys01%5B1%5D1.mps
9	14/05/03	18:00:02	D:\stuff\Curtis-3a.jpg

The below files have entries in the Info2 Records and are indecent images of children

CASE245\Seagate ST340810A\D\RECYCLER\S-1-5-21-1417001333-1532298954-839522115-1003\168.psd

CASE245\Seagate ST340810A\D\RECYCLER\S-1-5-21-1417001333-1532298954-839522115-1003\babys01%5B1%5D1.mps

Typed URLs

A TypedURL is a Unique Reference Locator (web address) stored in the registry key NTUSER.DAT\\$\$\$Proto.Hiv\Software\Microsoft\Internet Explorer. Each registered user on the computer has their own 'profile' and registry files within a Documents and settings folder.

The Typed URLs can be added to the registry key only when an address is typed directly into the command line of Internet Explorer. They cannot be added by means of clicking on search results or pops ups.

The below TypedURLs were located in the NTUSER.dat registry for the user Robert

The significance of these files is that they show that someone logged in as user 'Robert has directly accessed the YAHOO and FREESERVE sites

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CASE245\Seagate ST340810A\C\Documents and Settings\Robert\ntuser.dat\NTRegistry\\$\$\$PROTO.HIV\Software\Microsoft\Internet Explorer\TypedURLs\url22

<http://groups.yahoo.com>

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\ntuser.dat\NTRegistry\\$\$\$PROTO.HIV\Software\Microsoft\Internet Explorer\TypedURLs\url23

<http://www.freeseve.co.uk/>

Favourites

These URLs are located in the favourites folder, this folder is used within Internet Explorer as a shortcut to a web page they are used as a convenient way to organize and link to Web pages that the user visits frequently.

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Favorites\Media\Other\Yahoo! Groups YoungLoverz.url

[DEFAULT]
BASEURL=<http://groups.yahoo.com/group/YoungLoverz/>
[InternetShortcut]
URL=<http://groups.yahoo.com/group/YoungLoverz/>
Modified=A0143C417F16C3018A

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Favorites\Media\Other\Nifty Archive young-friends.url

[DEFAULT]
BASEURL=<http://library.gaycafe.com/nifty/gay/young-friends/>
[InternetShortcut]
URL=<http://library.gaycafe.com/nifty/gay/young-friends/>
Modified=103A39B66000C3015D

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Favorites\Media\Other\nudenude boys.url

[DEFAULT]
BASEURL=http://groups.msn.com/nudenudeboys/general.msnw?action=get_message&mview=0&ID_Message=2&LastModified=4675418429842351746
[InternetShortcut]
URL=http://groups.msn.com/nudenudeboys/general.msnw?action=get_message&mview=0&ID_Message=2&LastModified=4675418429842351746
Modified=4675418429842351746
Modified=20B7F5523207C3011B

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CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Favorites\Media\Other\Yahoo! Groups young_boys.url

[DEFAULT]
BASEURL=http://groups.yahoo.com/group/young_boys/
[InternetShortcut]
URL=http://groups.yahoo.com/group/young_boys/
Modified=E0AE50911901C3014D

Link File Information

The Windows\Desktop, Windows\Recent, Windows\Start Menu, and Windows\Send To folders can contain shortcut files, whose extensions are .LNK, they contain indications about the current and previous configuration of the user's desktop.

The shortcut files refer to target files, such as applications, directories, and data files, or to non-file-system objects, such as printers or external drives. Icons exist on the desktop for each shortcut file. Someone utilizing such shortcuts can open a file or directory, or start an application program, by double clicking on the appropriate icon on the desktop. Installation of an application may offer the option to create shortcuts on the desktop, so the shortcut may have been created during installation of an application.

The shortcut files have folder entries that record their dates of creation, modification, and access. The investigator can compare these dates with the dates related to the application's associated files and folders. This comparison may show that the shortcut was created after the installation of the program, giving rise to the possibility that the user intentionally created the shortcut and therefore knew of the existence of the application.

The Windows\Start Menu folder contains shortcut files that point to files and programs that appear on the Start Menu. The shortcut files can provide evidence that an application program, which is no longer present on the computer, was installed at one time. The date and time stamps on the shortcut files can help to identify the date that the application was installed, as their dates of creation correspond to the date that the installation occurred. The shortcut files also contain the fully qualified paths of the files that they refer to.

The Windows\Recent folder contains shortcut files that point to data files that were opened on the computer. By default, fifteen shortcuts are displayed. When a user clicks on the Start button and selects Documents, the operating system displays a list of recently opened data files. The user can select a file from this list, causing the file to be opened by its registered application. The recent folder can however contain more than fifteen such shortcuts.

A shortcut file in the Windows\Recent folder corresponds to each of these files. Examination of the shortcut files reveals the identities of the recently opened data files. Because the shortcut files contain both the file names and the fully qualified paths of those files, the shortcut files can provide an indication of how the computer system was configured on a given date. A shortcut file may refer to a volume that was not present when the investigator examined the system.

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Another important feature of shortcut files is that they contain the dates of creation, modification and access of the files that they refer to. While the folder entry of a shortcut file also has its own dates of creation, modification and access, the data area of the shortcut file contains the file name and fully qualified path of the file. These dates are embedded in the link file and are located at byte offsets 28, 36, and 44, respectively, in the shortcut files. The embedded dates can only be updated by accessing the program or file through that shortcut

Links which have not been used (such as those set up by installation processes) do not contain embedded dates

The following, detail information extracted from the internal structure of a 'LNK' (link File) and are the link files for indecent images of children contained on the Seagate drive

Link File Name: 3 boys jerking off man.mpg.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 22:45:11

Link File Name: 2boys_3.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:30:39

Link File Name: boy fuck another on grass.mpg.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:15:40

Link File Name: max1.mpg.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:22:04

Link File Name: 091.mpg.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:33:08

Link File Name: BoysAction1.mpg.lnk
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:19:01

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Link File Name: 123.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:33:33

Link File Name: 710.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:34:10

Link File Name: 2447.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:34:43

Link File Name: jv01.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:21:31

Link File Name: mal19c.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:21:44

Link File Name: Part1.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:22:50

Link File Name: Unnamed_0130.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:23:11

Link File Name: 2.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:26:10

Link File Name: !!!8yr_ghgwfather.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:32:57

Link File Name: !2boygame11-4.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:33:12

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Link File Name: !15ystiffvibrator.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:33:41

Link File Name: firstrun.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 22/04/03 14:16:52

Link File Name: 69_09.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:32:01

Link File Name: 01904.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:14:44

Link File Name: Top Gear.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 22/04/03 20:31:07

Link File Name: 12.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:31:55

Link File Name: 2 russian guys fuck then shoot.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:20:06

Link File Name: DANY.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:19:40

Link File Name: !2boygame11-2.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:29:51

Link File Name: !2boygame11-1.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:30:03

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Link File Name: 3 cute boys suck and fuck.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:30:47

Link File Name: 13-jacks_on_bed[1].mpa.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:32:07

Link File Name: !stiffjerker.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:19:05

Link File Name: Part2.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:22:53

Link File Name: Boy II.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:15:47

Link File Name: !2boygame11-6.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:33:25

Link File Name: %05oohyea.mpe.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:16:49

Link File Name: !!sweet10yo.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:16:55

Link File Name: #5-1.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:19:16

Link File Name: %21b04%281%29.mpeg.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:19:32

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Link File Name: !!sweet10yo blonde boy sucks.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:19:37

Link File Name: 2%20dicks%20in%201%20ass[1].mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:20:59

Link File Name: 9bldFuckByMan%20115.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:31:41

Link File Name: 10yo Boy Fucks 11yo Boy In Field.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:21:19

Link File Name: 12-stand and jerking.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 27/04/03 22:21:28

Link File Name: 13-cum to mask.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:31:56

Link File Name: 13yorides.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:32:12

Link File Name: 69_09russian flower.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:32:38

Link File Name: 710.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 04/05/03 14:33:47

Link File Name: babys01%5B1%5D[1].mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 14/05/03 16:43:35

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Link File Name: babys01%5B1%5D1.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 14/05/03 16:43:41

Link File Name: donpal[1].mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 05/05/03 21:44:13

Link File Name: DigRub2Boy.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:19:43

Link File Name: fclk[1].mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 05/05/03 21:45:09

Link File Name: feldoi%3Bjo09p%5B.mps.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 05/05/03 21:45:37

Link File Name: josh.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 05/05/03 21:47:29

Link File Name: Younger brother jackin.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 28/04/03 22:58:51

Link File Name: Young%20Cocksucker%20%280.05%20Min.%2....Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 06/05/03 13:25:07

Link File Name: vidzone.tv.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 02/05/03 13:48:05

Link File Name: Tennis.mpeg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 10:54:29

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Link File Name: prev4.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 11:01:54

Link File Name: prev3.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 11:02:07

Link File Name: preteen - gay - 11yrolld boy gets suck....Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 11:02:46

Link File Name: 2TEEN.mpg.Ink
Created Date: 11/04/03 22:39:42
Modified Date: 22/04/03 13:33:00
Accessed Date: 30/04/03 22:44:40

Link File Name: blondsuckandswallow.Ink
Created Date: 22/04/03 17:13:27
Modified Date: 22/04/03 17:13:40
Accessed Date: 21/04/03 23:00:00

Link File Name: Young%20Cocksucker%20%280.05%20Min.%29.Ink
Created Date: 20/03/03 22:46:50
Modified Date: 03/02/03 12:24:04
Accessed Date: 05/05/03 23:00:00

Link File Name: Part1.Ink
Created Date: 27/04/03 19:45:56
Modified Date: 27/04/03 19:46:12
Accessed Date: 26/04/03 23:00:00

Link File Name: 710.Ink
Created Date: 15/04/03 19:58:21
Modified Date: 15/04/03 19:58:22
Accessed Date: 02/05/03 23:00:00

Link File Name: DigRub2Boy.Ink
Created Date: 20/03/03 22:46:29
Modified Date: 18/01/03 21:46:24
Accessed Date: 05/05/03 23:00:00

Link File Name: jv01.Ink
Created Date: 20/03/03 22:46:36
Modified Date: 17/01/03 18:07:30
Accessed Date: 19/03/03 23:00:00

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Link File Name: !15ystiffvibrator.Ink
Created Date: 20/03/03 22:46:13
Modified Date: 14/01/03 11:49:28
Accessed Date: 05/05/03 23:00:00

Link File Name: Part2.Ink
Created Date: 27/04/03 19:47:15
Modified Date: 27/04/03 19:47:16
Accessed Date: 05/05/03 23:00:00

Link File Name: 69_09.Ink
Created Date: 04/05/03 12:10:45
Modified Date: 04/05/03 12:10:46
Accessed Date: 03/05/03 23:00:00

Link File Name: brent33.Ink
Created Date: 02/05/03 16:43:24
Modified Date: 02/05/03 16:43:18
Accessed Date: 05/05/03 23:00:00

Link File Name: stuff.Ink
Created Date: 14/05/03 16:11:18
Modified Date: 14/05/03 17:00:02
Accessed Date: 14/05/03 17:08:48

Link File Name: 2[1].Ink
Created Date: 10/04/03 11:14:01
Modified Date: 11/11/02 22:48:38
Accessed Date: 13/05/03 14:26:02

Link File Name: 9bldFuckByMan%20115.Ink
Created Date: 20/03/03 22:46:21
Modified Date: 03/02/03 12:30:02
Accessed Date: 02/05/03 23:00:00

Link File Name: !2boygame11-2.Ink
Created Date: 01/04/03 22:01:00
Modified Date: 01/04/03 22:01:00
Accessed Date: 17/04/03 23:00:00

Link File Name: !2boygame11-1.Ink
Created Date: 01/04/03 22:01:00
Modified Date: 01/04/03 22:01:00
Accessed Date: 17/04/03 23:00:00

Link File Name: 13-cum to mask.Ink
Created Date: 20/03/03 22:46:18
Modified Date: 18/03/03 15:43:22
Accessed Date: 02/05/03 23:00:00

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Link File Name: 13-jacks_on_bed[1].lnk
Created Date: 20/03/03 22:46:18
Modified Date: 17/01/03 18:10:46
Accessed Date: 17/04/03 23:00:00

Link File Name: img0035.lnk
Created Date: 20/03/03 22:44:48
Modified Date: 09/01/03 20:56:54
Accessed Date: 26/04/03 23:00:00

Link File Name: denial.lnk
Created Date: 14/05/03 15:12:17
Modified Date: 14/05/03 15:09:56
Accessed Date: 14/05/03 15:12:17

Link File Name: IMAGINE.lnk
Created Date: 14/05/03 15:16:00
Modified Date: 14/05/03 15:16:00
Accessed Date: 14/05/03 15:16:00

Link File Name: YESTERDY.lnk
Created Date: 14/05/03 15:16:14
Modified Date: 14/05/03 15:15:35
Accessed Date: 14/05/03 15:16:14

Link File Name: 4-2.lnk
Created Date: 09/05/03 23:12:35
Modified Date: 09/05/03 23:12:36
Accessed Date: 13/05/03 23:00:00

Link File Name: 5-2.lnk
Created Date: 09/05/03 23:13:05
Modified Date: 09/05/03 23:13:06
Accessed Date: 13/05/03 23:00:00

Link File Name: f179.lnk
Created Date: 20/03/03 22:44:38
Modified Date: 09/02/03 22:20:22
Accessed Date: 14/05/03 17:06:01

Link File Name: gal2b.lnk
Created Date: 27/03/03 21:05:17
Modified Date: 27/03/03 21:05:00
Accessed Date: 14/05/03 17:06:52

Link File Name: img0017.lnk
Created Date: 20/03/03 22:44:47
Modified Date: 09/01/03 20:53:48
Accessed Date: 14/05/03 17:08:21

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Link File Name: img0027.Ink
Created Date: 20/03/03 22:44:48
Modified Date: 09/01/03 20:55:22
Accessed Date: 14/05/03 17:08:34

Link File Name: img0028.Ink
Created Date: 20/03/03 22:44:48
Modified Date: 09/01/03 20:55:54
Accessed Date: 14/05/03 17:08:38

Link File Name: feldoi%3Bjo09p%5B.Ink
Created Date: 20/03/03 22:46:31
Modified Date: 03/02/03 12:27:42
Accessed Date: 19/03/03 23:00:00

Link File Name: 2.Ink
Created Date: 30/04/03 11:26:22
Modified Date: 30/04/03 11:26:24
Accessed Date: 05/05/03 23:00:00

Link File Name: 12.Ink
Created Date: 30/04/03 21:56:54
Modified Date: 30/04/03 21:56:54
Accessed Date: 05/05/03 23:00:00

Link File Name: Boy II.Ink
Created Date: 27/04/03 20:40:00
Modified Date: 27/04/03 20:40:02
Accessed Date: 05/05/03 23:00:00

Link File Name: untitled657.Ink
Created Date: 20/03/03 22:45:43
Modified Date: 13/03/03 21:07:20
Accessed Date: 12/05/03 23:00:00

Link File Name: untitled523.Ink
Created Date: 20/03/03 22:45:40
Modified Date: 13/03/03 20:41:38
Accessed Date: 12/05/03 23:00:00

Link File Name: untitled632.Ink
Created Date: 20/03/03 22:45:42
Modified Date: 13/03/03 20:43:18
Accessed Date: 12/05/03 23:00:00

Link File Name: untitled435.Ink
Created Date: 20/03/03 22:45:40
Modified Date: 13/03/03 20:46:36
Accessed Date: 12/05/03 23:00:00

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These are the dates embedded within the link file. They can only be updated by accessing the file or folder or device by activating the link file to access the relevant target

The dates are located at sector offset 28 and comprise 8 bytes per date.

They are displayed in the order of Creation, Last Accessed, and last modified. The last accessed date in this instance relates to the date the file was last accessed through the link. These dates are not affected by anti virus or other utilites.

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Microsoft\Office\Recent\RBFXCXVD.LNK

Time/Date

Date Created 22/04/03 14:18:12

Last Accessed 13/05/03 19:59:25

Last Written 13/05/03 19:59:17

Indecent Images of Children contained in Folder RBFXCXVD

These files are indecent images of children contained within folder RBFXCXVD

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\5[1].avi

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_dpr47[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_dpr66[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_dpr92[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_cs013(1)[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\tree022[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_timmy61[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_timmy94[1].jpg

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Local Settings\Temporary Internet Files\Content.IE5\RBFXCXVD\th_cody39[1].jpg

Distribution of Indecent Images of Children

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Emails in Sent Items folder in Exported PST file

Using the copy/unerase facility within Encase the file Outlook.PST was exported to the default export drive and imported into Microsoft Outlook. An examination was then made of the various folders within the Outlook file.

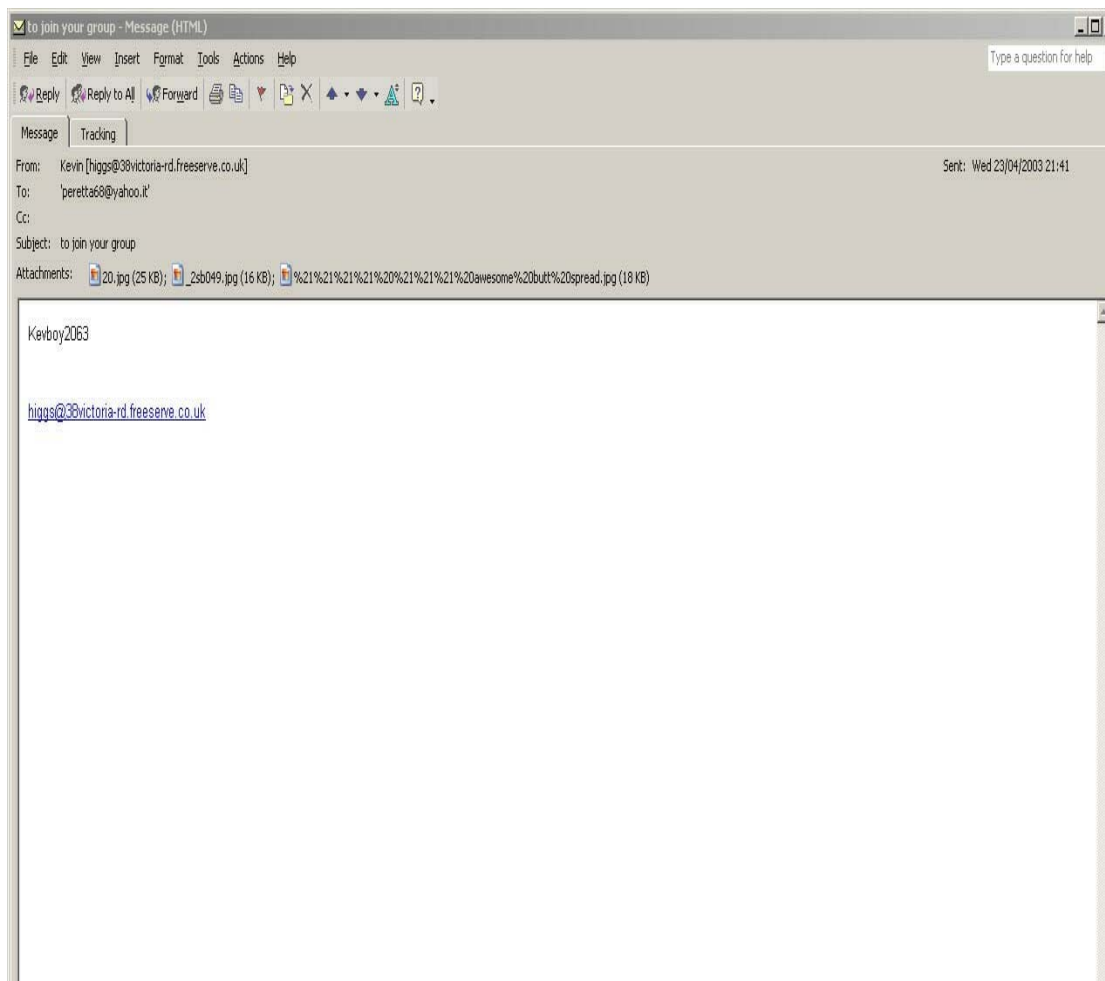
PST File Details

Full Path CASE245\Seagate ST340810A\C\Documents and Settings\Robert\
Local Settings\Application Data\Microsoft\Outlook\Outlook.pst
File Created 10/04/03 18:19:02
Last Written 16/05/03 17:05:38
Last Accessed 16/05/03 17:05:38

The following emails were seen within the SENT ITEMS folder

Email entitled 'To Join Your Group'

This email contains three attachments and is addressed to peretta68@yahoo.it. The email contains indecent image(s) of children



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ATTACHMENTS

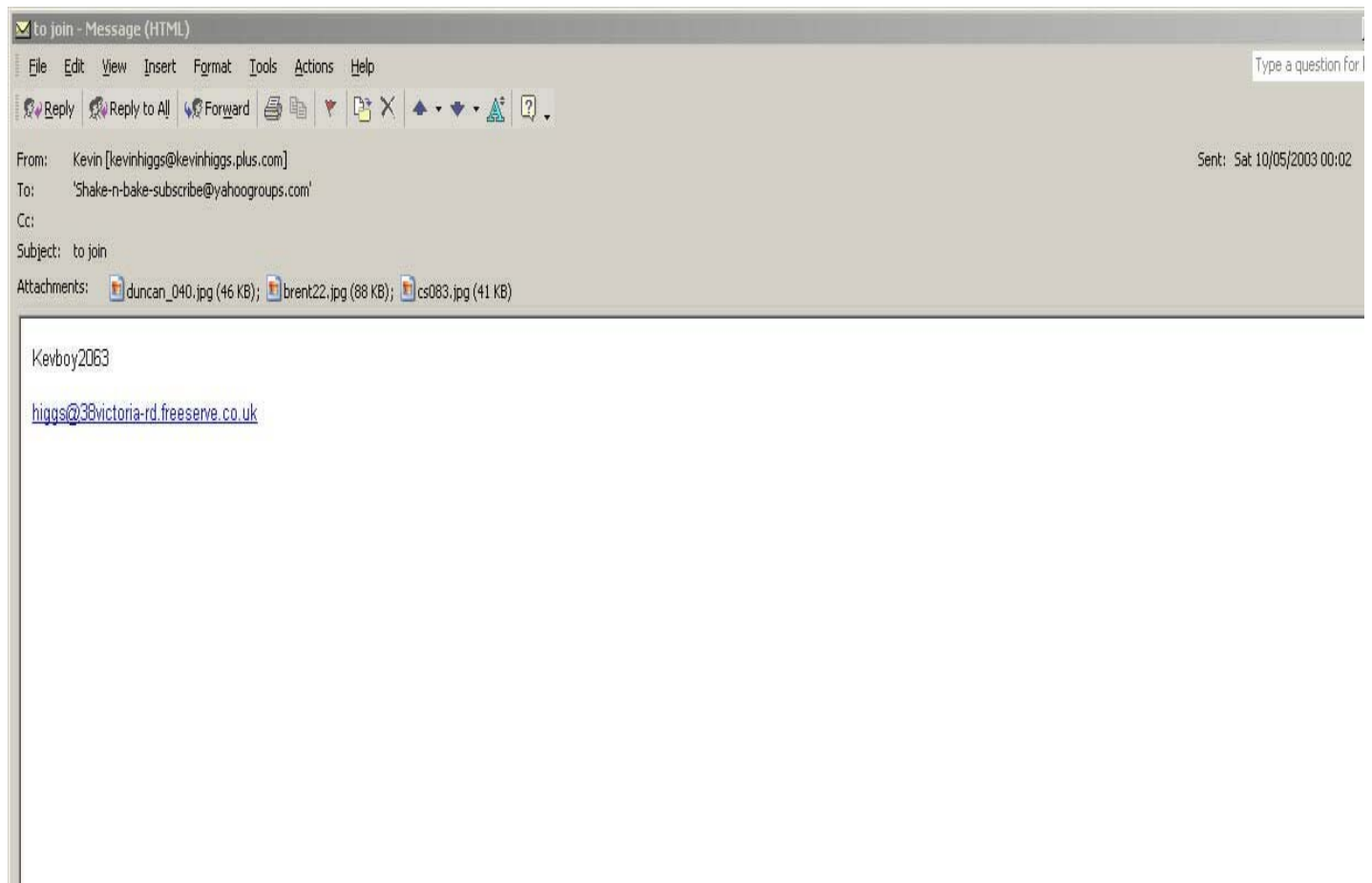
Full Path CASE245\Seagate ST340810A\D\stuff\2boys\20.jpg
File Created 20/03/03 22:46:52
Last Written 09/11/02 09:18:24
Last Accessed 14/05/03 17:16:33

Full Path CASE245\Seagate ST340810A\C\Lost Files_2sb049.jpg
File Created 20/03/03 22:46:11
Last Written 13/12/02 16:10:14
Last Accessed 14/05/03 17:02:43

Full Path CASE245\Seagate ST340810A\D\stuff\
%21%21%21%21%20%21%21%21%20awesome%20butt%20spread.jpg
File Created 23/04/03 21:13:21
Last Written 23/04/03 21:13:16
Last Accessed 14/05/03 17:11:20

Email entitled 'To Join'

This email contains three attachments and is addressed to Shake-n-bake-subscribe@yahoogroups.com. The email contains indecent image(s) of children



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ATTACHMENTS

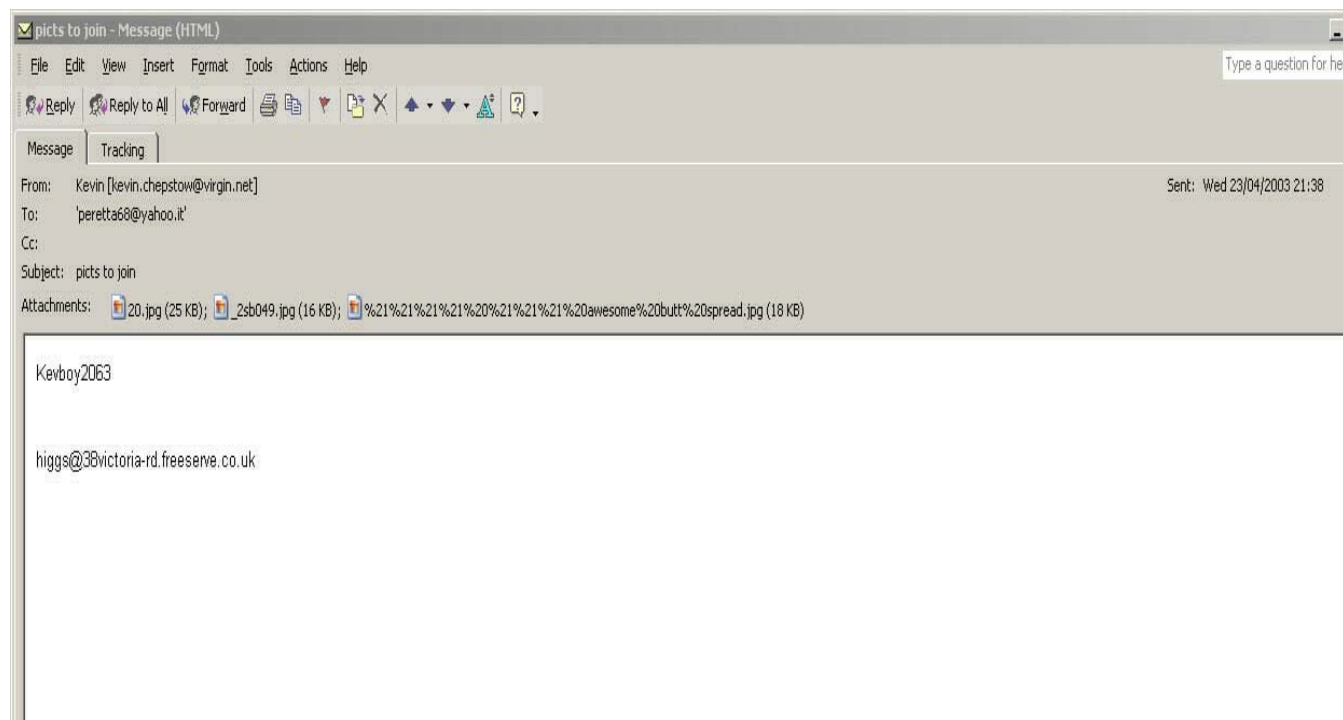
Full Path CASE245\Seagate ST340810A\D\stuff\paysite\duncan_040.jpg
File Created 04/05/03 14:07:08
Last Written 04/05/03 14:07:02
Last Accessed 14/05/03 17:16:27

Full Path CASE245\Seagate ST340810A\D\stuff\paysite\brent22.jpg
File Created 02/05/03 17:40:55
Last Written 02/05/03 17:40:54
Last Accessed 14/05/03 17:16:25

Full Path CASE245\Seagate ST340810A\D\stuff\paysite\cs083.jpg
File Created 30/04/03 23:05:01
Last Written 30/04/03 23:04:50
Last Accessed 14/05/03 17:16:26

Email entitled Picts 'To Join'

This email contains three attachments and is addressed to peretta68@yahoo.it The email contains indecent image(s) of children and was sent on



ATTACHMENTS

Full Path CASE245\Seagate ST340810A\D\stuff\2boys\20.jpg
File Created 20/03/03 22:46:52
Last Written 09/11/02 09:18:24
Last Accessed 14/05/03 17:16:33

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Full Path CASE245\Seagate ST340810A\C\Lost Files_2sb049.jpg
File Created 20/03/03 22:46:11
Last Written 13/12/02 16:10:14
Last Accessed 14/05/03 17:02:43

Full Path CASE245\Seagate ST340810A\D\stuff\%21%21%21%21%20%21%21%21%20awesome%20butt%20spread.jpg
File Created 23/04/03 21:13:21
Last Written 23/04/03 21:13:16
Last Accessed 14/05/03 17:11:20

Restore Details

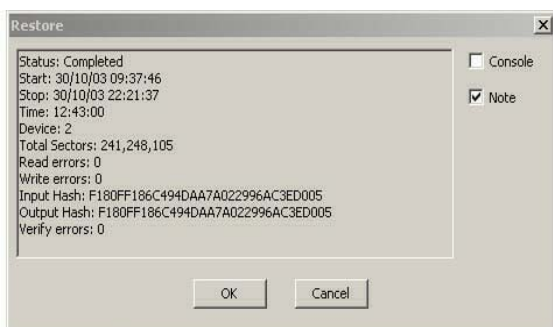
Encase has a function to restore the suspect drive to a 'clean' drive. This transfers the bit stream image mirror image back to the new drive and creates an exact replica of the suspect hard drive.

It is necessary to use a drive which is larger than the original suspect drive, however Encase adjusts the drive geometry of the clone drive to be the same as the suspect drive when the process is finished

Encase also generates a verification hash for the image which it has restored and compares this with the original image

Restore
Status: Completed
Start: 30/10/03 09:37:46
Stop: 30/10/03 22:21:37
Time: 12:43:00
Device: 2
Total Sectors: 241,248,105
Read errors: 0
Write errors: 0
Input Hash: F180FF186C494DAA7A022996AC3ED005
Output Hash: F180FF186C494DAA7A022996AC3ED005
Verify errors: 0

Screen-print of Restore details



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On completion of the restore process I placed the clone drive into the original suspect computer

I switched the computer on and started it up. The computer started and accessed the drive and started the Windows XP Professional Operating System

On completion of the start-up sequence the computer invited me to logon as a user. I selected the user name Robert and attempted to log in without a password. The computer would not let me log in as this user.

I then tried to logon as one of the other users as follows

User Andrew password required could not logon without password

User Chloe password required could not logon without password

User Electronic Components password required could not logon without password

User Kay required to enter password for first time logon and to agree to accept Windows End User agreement

AVG Anti Virus

I then installed a copy of Grisofts AVG Anti Virus checking utility (version 7.0) on the cloned hard drive. I obtained this by connecting the computer to the internet via the computer network card, and connecting it to the Hi Tech Crime Unit network. This allowed me to download the latest version of the software, together with the latest Anti Virus update

This program is designed to search across the computers drives for 'Virus' infected programs

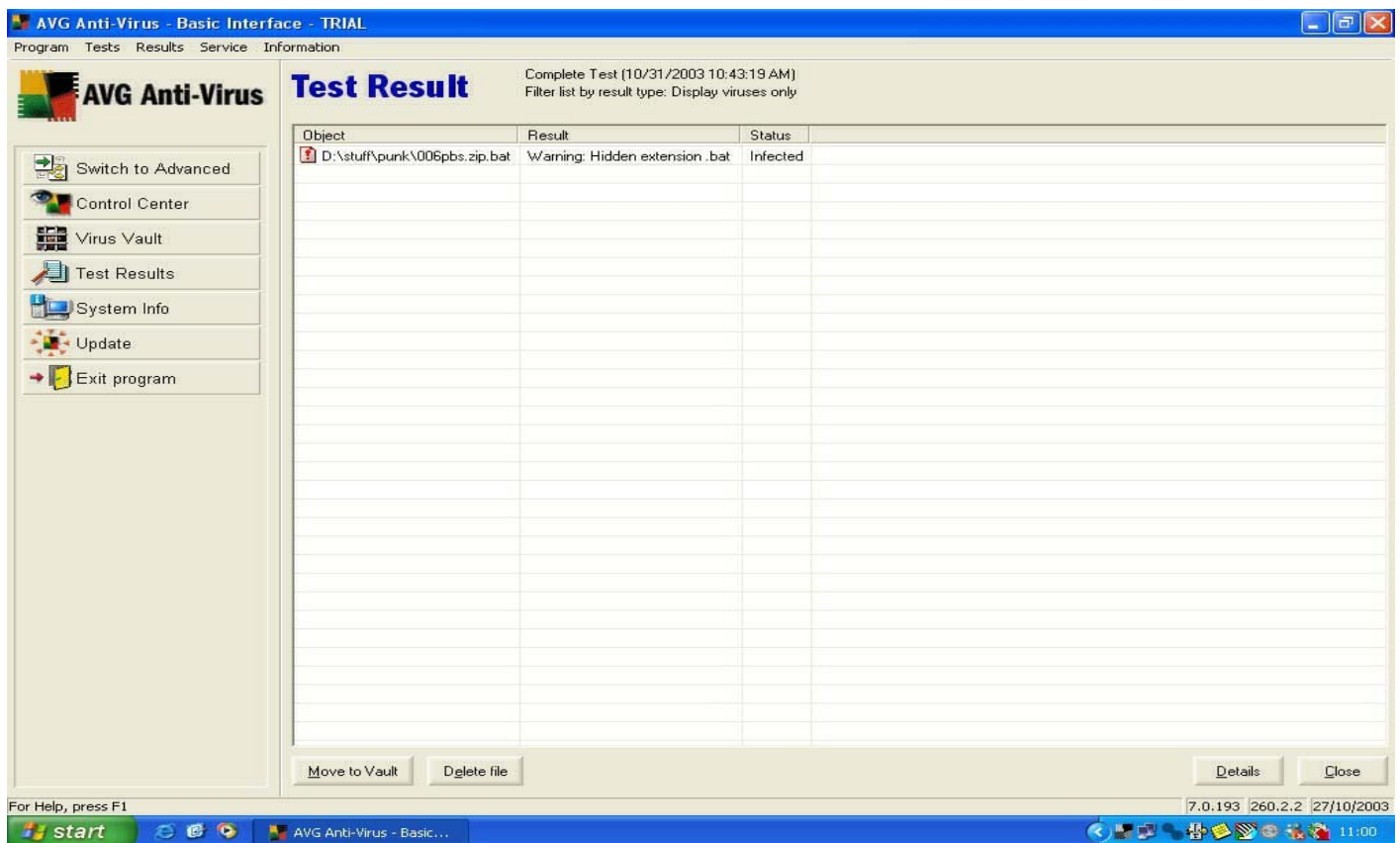
I also installed a copy of the program ANTI TROJAN v 5.5.4.21 on the cloned hard drive. I obtained this by connecting the computer to the internet via the computer network card, and connecting it to the Hi Tech Crime Unit network. This allowed me to download the latest version of the software, together with the latest Anti Trojan checking update

This program is designed to search across the computers drives for 'Trojan infections

I then ran the Grisoft AVG Anti Virus Utility across the cloned drive

On completion of the Anti Virus scan the contents of file 006pbs.zip.bat, was identified by AVG Anti Virus utility as an Infected File with the warning of: - **hidden extension .bat**

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I produce a AVG test Results Log GCP9

A Zip files is an "archive" used for distributing and storing files. Zip files contain one or more files. Usually the files "archived" in a Zip are compressed to save space. Zip files make it easy to group files and make transporting and copying these files faster.

Zip files save time and space, and make downloading software and transferring e-mail attachments faster. Typical uses for Zip files include:

- Most files available on ftp sites, bulletin boards and electronic services like CompuServe are distributed as archives. Two benefits of using archives for electronic file distribution are that only one file transfer operation ("download") is required to obtain all related files, and file transfer time is minimized because the files in an archive are compressed.
- It is often useful to send a group of related files to an associate. Rather than distributing individual files it is often easier to distribute the files as an archive to benefit from the file grouping and compression.
- Some files are important but used infrequently. To save disk space simply compress these files into an archive when they are not used, and decompress them only when needed.

The programs used to create Zip files (usually WinZip) which are available on the internet use an algorithm to compress it down in size usually by removing unused space. As mentioned this minimises the transfer of files which is an important factor when dial up (standard telephone) connections are used to connect to the internet

In the days prior to broadband or fast ADSL connections, files were also split into smaller 'chunks' for

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faster downloading and to overcome size limits imposed by Internet Service Providers .

Various File splitting programs are freely available and these were used to split up the large and then reconstruct them. A large file named test.zip could be split as File.000, File.001 File.002 etc

A batch file (denoted by the extension .bat) is a file which runs a series of commands which are contained in it, for example a simple batch file on a floppy disk could read: -

```
Cd\  
C:  
MD Test  
CD Test  
MD example  
Cd\  
Copy A:\*.JPG C:\TEST\EXAMPLE
```

This example would take the drive where it is sat back to the root level, then change to drive C:, then create the folder TEST, then change to C:\TEST, and create the folder EXAMPLE.

The last line of the command would then copy any graphic images with the extension JPG to the folder C:\TEST\EXAMPLE

A standard file has a DOS name which comprises 8 characters followed by three characters for the extension e.g. EXAMPLE.JPG, Windows allows long file names up to 255 characters followed by an extension which can exceed three characters

It is possible to add a further extension to the file name in this case **006pbs.zip.bat**, where the file 006pbs.zip has a batch file added to it to cause it to carry out the instructions or commands contained in the batch file

The batch file attached to **006pbs.zip.bat** contains the following instructions

```
@echo off  
echo.  
echo Generated Using MasterSplitter(TM)  
echo.  
echo Recreating the Original File From the Pieces.  
copy/b "006pbs.zip.001" "006pbs.zip"  
copy/b "006pbs.zip" + "006pbs.zip.002"  
copy/b "006pbs.zip" + "006pbs.zip.003"  
copy/b "006pbs.zip" + "006pbs.zip.004"  
copy/b "006pbs.zip" + "006pbs.zip.005"  
copy/b "006pbs.zip" + "006pbs.zip.006"  
copy/b "006pbs.zip" + "006pbs.zip.007"  
copy/b "006pbs.zip" + "006pbs.zip.008"  
copy/b "006pbs.zip" + "006pbs.zip.009"  
copy/b "006pbs.zip" + "006pbs.zip.010"  
echo.  
echo All Done Joining the Files.
```

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Whilst some batch files can contain malicious code or instructions, It will be seen that the warning message relating to **006pbs.zip.bat** does not relate to a virus, but is merely an alert to the user that a file with two extensions does exist on the drive

The following files exist within the directory D:\stuff\punk, and would be rejoined by the batch command

D:\stuff\punk\006pbs.zip.bat	D:\stuff\punk\006pbs.zip.006
D:\stuff\punk\006pbs.zip.000	D:\stuff\punk\006pbs.zip.007
D:\stuff\punk\006pbs.zip	D:\stuff\punk\006pbs.zip.008
D:\stuff\punk\006pbs.zip.001	D:\stuff\punk\006pbs.zip.009
D:\stuff\punk\006pbs.zip.002	D:\stuff\punk\006pbs.zip.010
D:\stuff\punk\006pbs.zip.003	D:\stuff\punk\006pbs.zip.004
D:\stuff\punk\006pbs.zip.005	Anti Trojan Result of Scan of Cloned Drive
D:\stuff\punk\006pbs.zip.005	

It therefore transpires that this drive does not contain any Virus infection. The computer has not been used since May 2003, any virus which existed then should be included in the latest virus update and would have been picked up by the anti virus scan.

Result of Anti Trojan Scan of Cloned Drive

I then ran the Anti Trojan scan on the cloned drive; this did not detect any Trojan infections

The program reported various open ports such as Port 5000 which is the Universal Plug and Play Port

Open ports are used by Windows for various functions such as email, file transfer programs, file sharing, etc The presence of open ports being reported by the Anti Trojan program does not indicate that the computer has been infected, but is a warning to the user that the port is open

I printed out a copy of the Anti Trojan Report Pol GCP10 and made a screen-print of the result displayed on screen

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Screen-prints of Drives and Folders

I made the following screen shot of the desktop of the drive, showing the desktop displayed to the user Robert

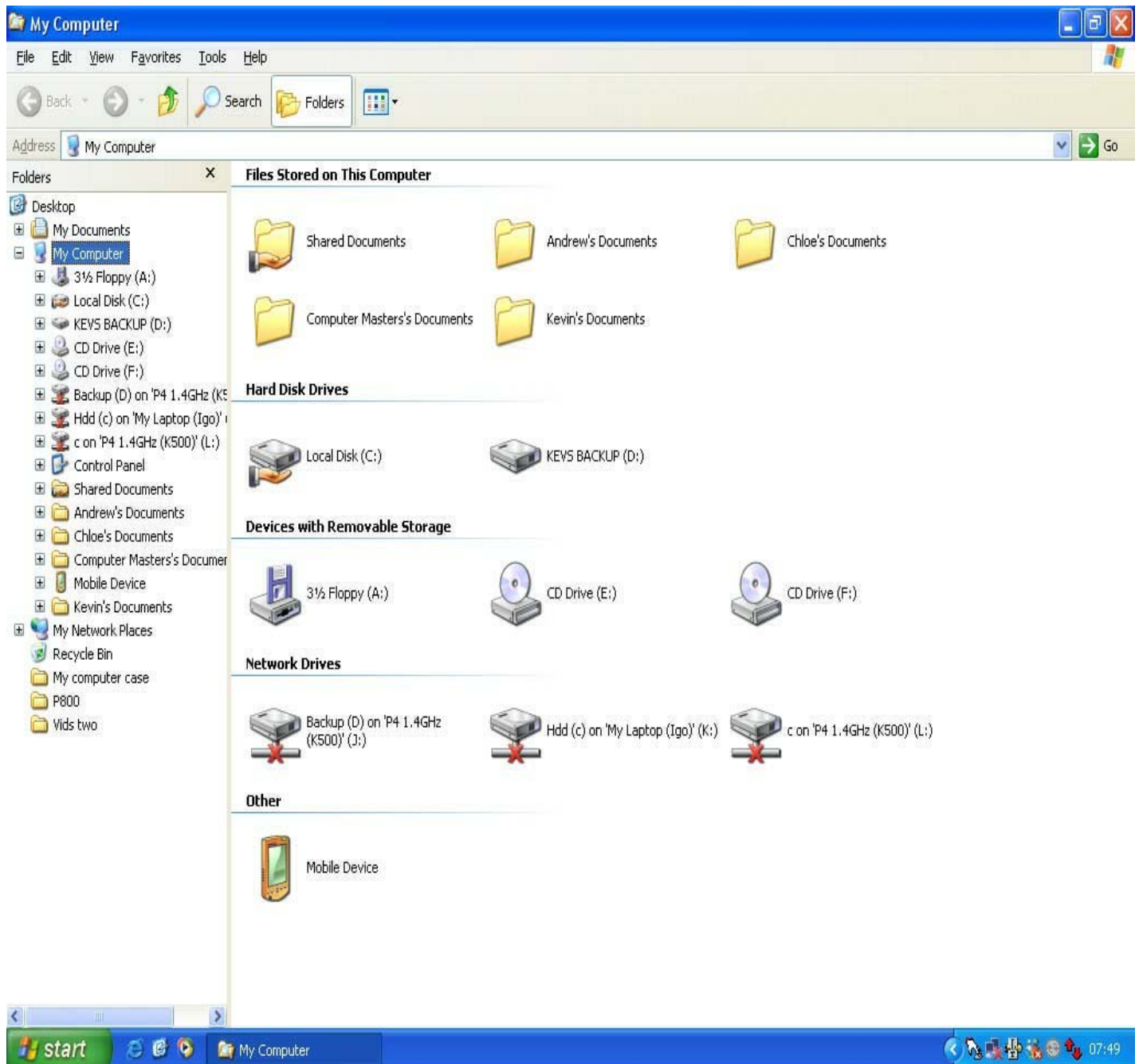
Screen-print of Desktop of Cloned Drive



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I went into the Windows Explorer program and saw that the files and drives were displayed in Icon mode. Windows remembers the way that a folder was last displayed in Explorer and displays it the same way when open a second time

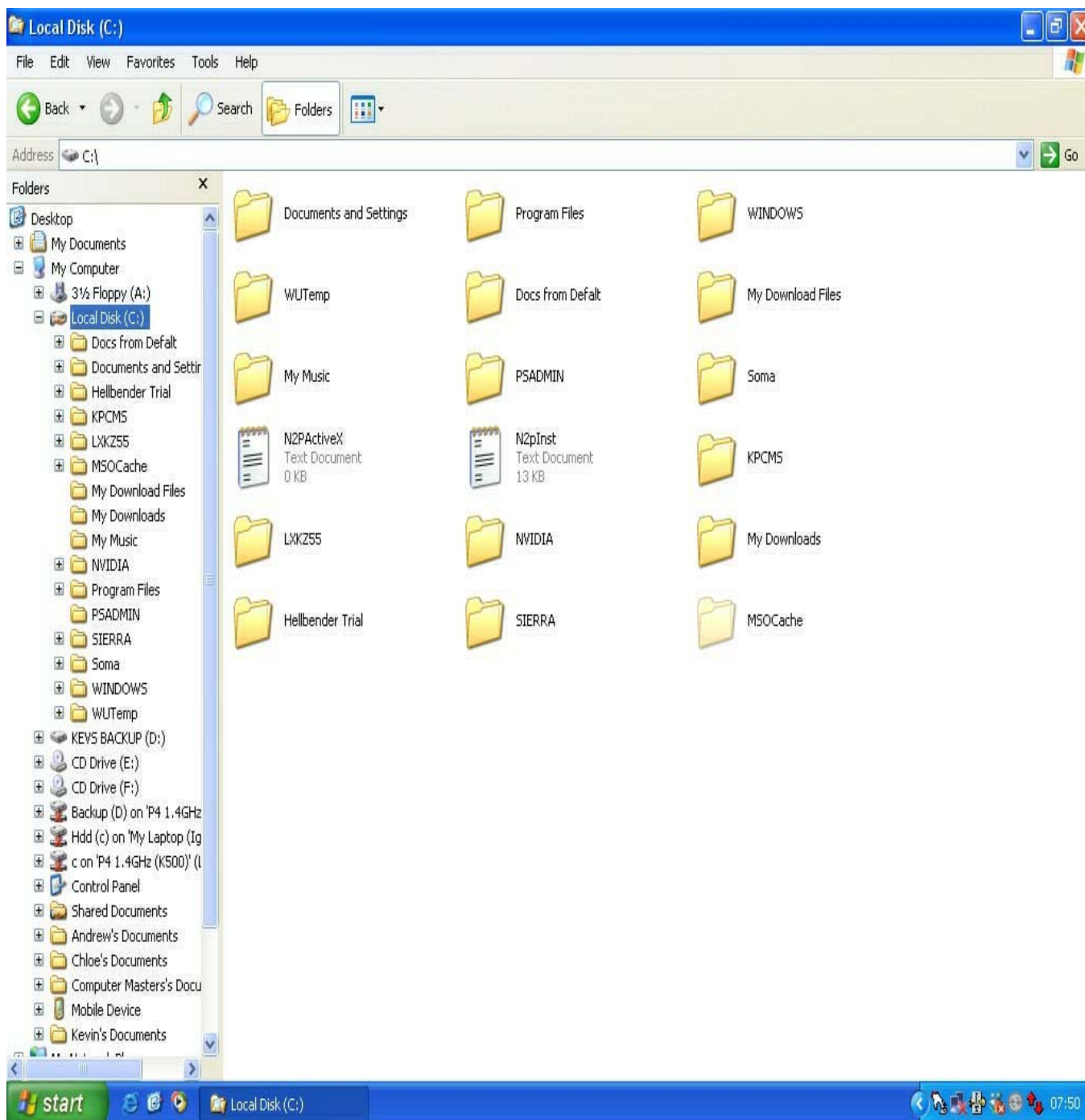
Screen-print of Windows Explorer Application on Cloned Drive



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I then accessed the Local Disk (C:) with Windows Explorer and saw this was displayed in Icon View

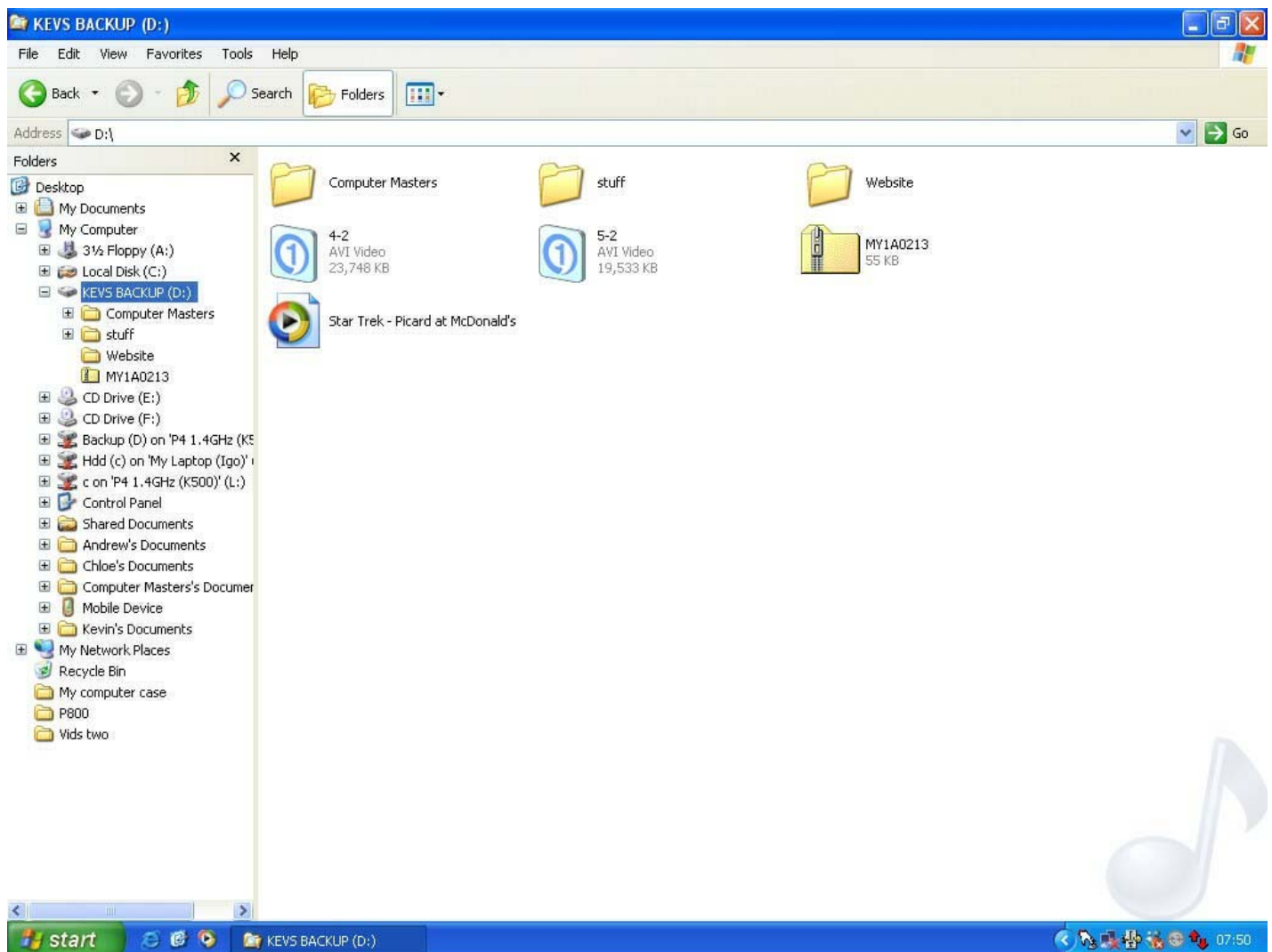
Screen-print of Drive C of Cloned Drive



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I then accessed the D: Drive marked ROBS BACKUP (D:) with Windows Explorer and saw that this was also displayed in Icon View

Screen-print of Drive D of Cloned Drive



I then accessed the folder STUFF on the D: Drive and saw that this was displayed in Thumbnail (small picture) view. This view clearly showed that the folder contained indecent images of children and would have been immediately apparent to anyone accessing the folder

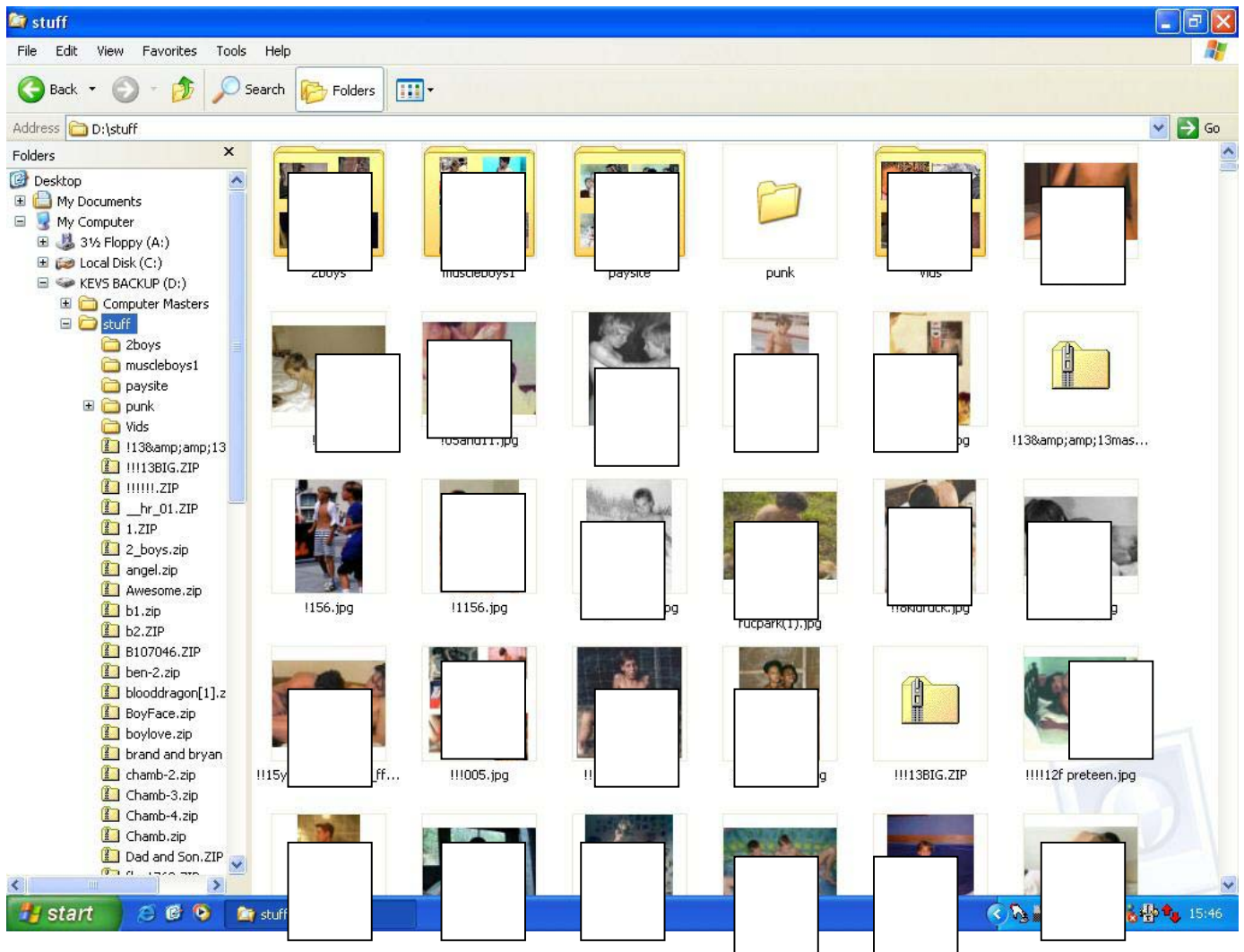
In addition the left hand pane of the folder view showed a list of sub folders and zip files, one of which was a folder called PAYSITE and others which were indicative of indecent images of children

In order to test whether Windows will remember the settings for the folder display, I opened and closed the windows explorer program 10 times, each time the computer displayed the contents of the D:\stuff folder in thumbnail view.

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I then shut down and restarted the computer on 10 occasions and accessed the folder D:\stuff in windows explorer. each time the computer displayed the contents of the D:\stuff folder in thumbnail view.

Screen-print of Folder D:\Stuff Showing Thumbnails on Cloned Drive

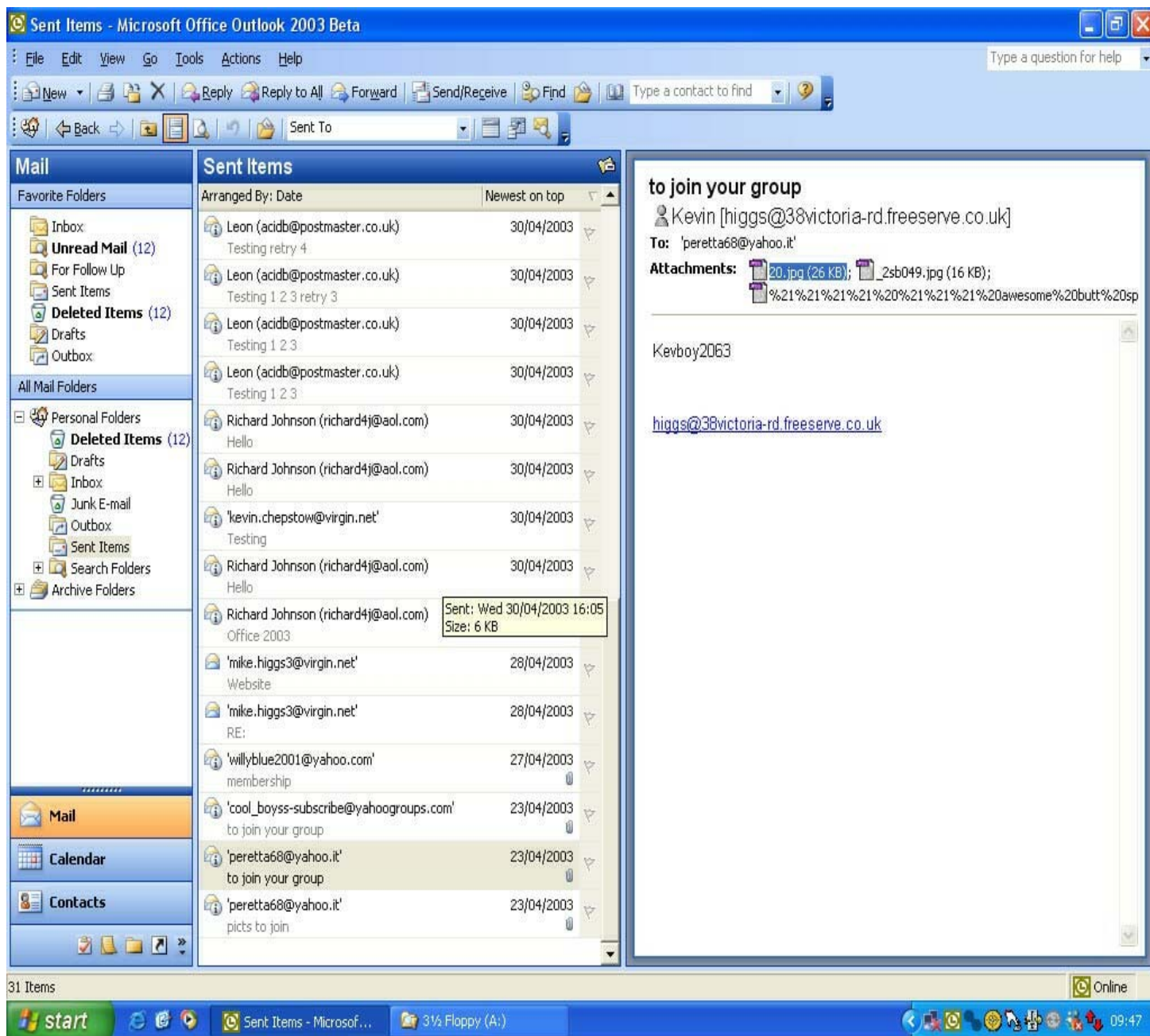


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Screen-prints from Sent Emails

I then opened the Outlook program and examined the list of sent emails; I took screenprints of the relevant entries

Screen-print of **to join your group** from Sent Emails



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Screen-prints of **to join** from Sent Emails

Sent Items - Microsoft Office Outlook 2003 Beta

File Edit View Go Tools Actions Help

New Reply Reply to All Forward Send/Receive Find Type a contact to find

Back Forward Sent To

Mail

Favorite Folders

- Inbox
- Unread Mail (12)
- For Follow Up
- Sent Items
- Deleted Items (12)
- Drafts
- Outbox

All Mail Folders

- Personal Folders
 - Deleted Items (12)
 - Drafts
 - Inbox
 - Junk E-mail
 - Outbox
 - Sent Items
 - Search Folders
- Archive Folders

Sent Items

Arranged By: Date Newest on top

Older

From	Date
Leon (acidb@postmaster.co.uk)	11/05/2003
'Richard4J@aol.com'	11/05/2003
'Richard4J@aol.com'	11/05/2003
Richard Johnson (richard4j@aol.com)	11/05/2003
'acidb@postmaster.co.uk'	10/05/2003
'Shake-n-bake-subscribe@yahoogroups.com'	10/05/2003
Leon (acidb@postmaster.co.uk)	08/05/2003
'Richard4J@aol.com'	07/05/2003
'support@ssi.teksupport.com'	05/05/2003
'acidb@postmaster.co.uk'	02/05/2003
'acidb@postmaster.co.uk'	01/05/2003
Chloe Rogers (chloe_a_1_rogers@hotmail.com); David Burch...	
Richard Johnson (richard4j@aol.com)	30/04/2003
'acidb@postmaster.co.uk'	30/04/2003
'acidb@postmaster.co.uk'	30/04/2003

to join

Kevin [kevinhiggs@kevinhiggs.plus.com]

To: 'Shake-n-bake-subscribe@yahoogroups.com'

Attachments: duncan_040.jpg (47 KB); brent22.jpg (88 KB); cs083.jpg (42 KB)

Kevboy2063

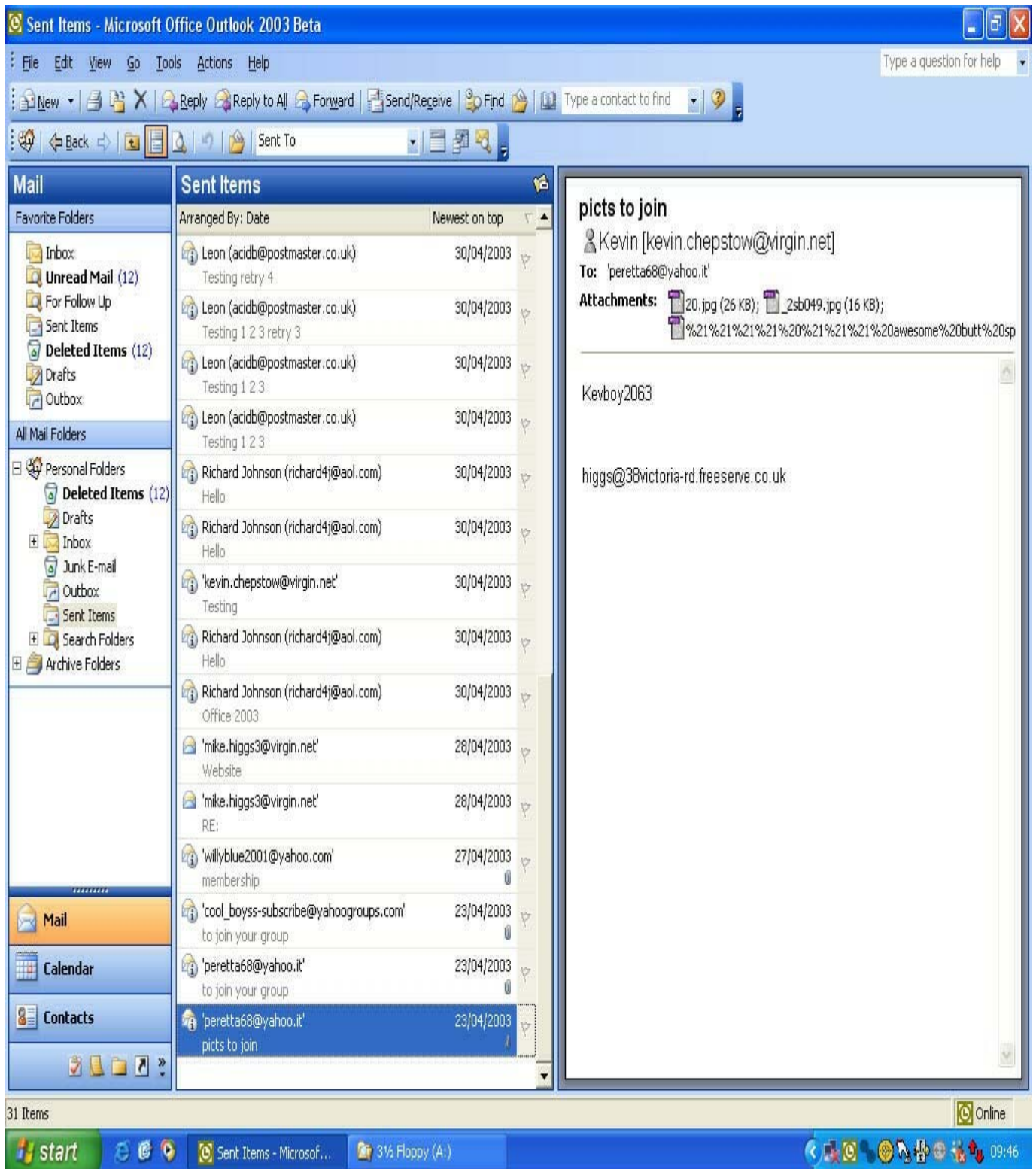
higgs@38victoria-rd.freemove.co.uk

31 Items Online

start Sent Items - Microsof... Outlook Send/Receiv... 3 1/2 Floppy (A:) 09:54

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Screen-prints of Picts to Join from Sent Emails



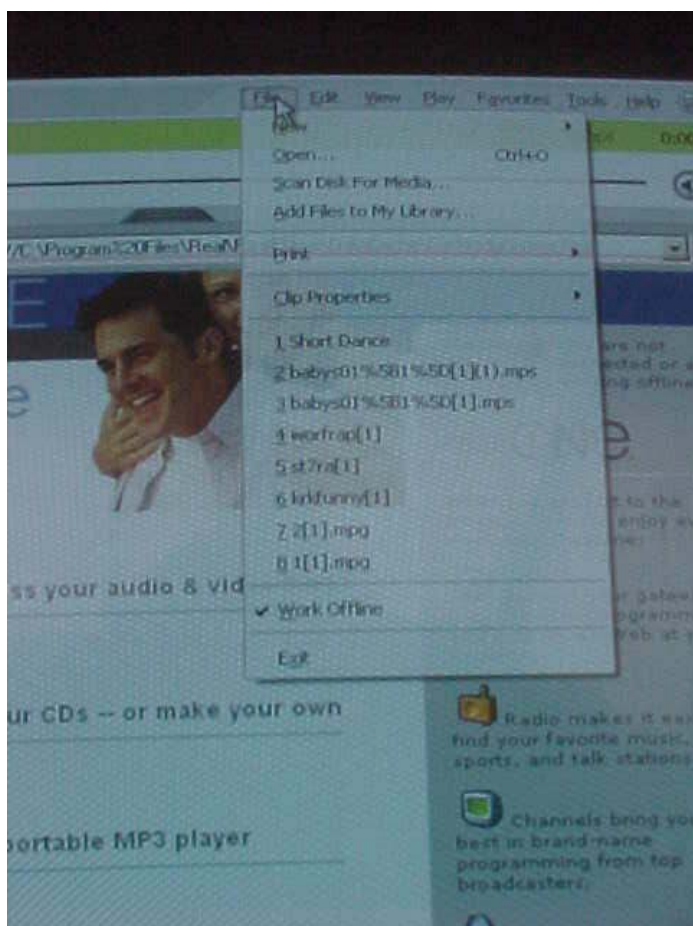
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Recent List in Real Player on Cloned Drive

I then examined the various programs on the drive in order to see the Recent Lists generated by those applications

I saw the recent list in the program contained references to babys01%5B1%5D1.mps and babys01%5B1%5D[1].mps These two files comprise indecent images of children

I took a photograph of the screen showing this recent list



I then returned to the Encase image and examined the properties for the folder **D:\stuff**. This showed that the folder had been created on the drive on the 14th May 2003; however the folder contains files which have an earlier creation date and could indicate the moving of files and folders being deleted and recreated

Properties of Folder D:\Stuff

Name:	stuff
Description:	Folder
Is Deleted:	No
Last Accessed:	14/05/03 22:12:05
File Created:	14/05/03 17:11:18
Last Written:	14/05/03 18:00:02

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Entry Modified: 15/05/03 14:48:52
Logical Size: 0
Physical Size: 131,072
Starting Extent: 0D-C126517
Physical Location: 38,169,454,592
Evidence File: Seagate ST340810A
File Identifier: 61
Full Path: Case245\Seagate ST340810A\D\stuff

Permissions

Owner: S-1-5-21-1417001333-1532298954-839522115-1003
Group: S-1-5-21-1417001333-1532298954-839522115-513
Permissions Allowed: S-1-5-32-544 [Full Control] [Modify] [Read and Execute] [Read] [Write] [Sync] [Object Inherit ACE] [Container Inherit ACE]
Permissions Allowed: S-1-5-18 [Full Control] [Modify] [Read and Execute] [Read] [Write] [Sync] [Object Inherit ACE] [Container Inherit ACE]
Permissions Allowed: S-1-5-21-1417001333-1532298954-839522115-1003 [Full Control] [Modify] [Read and Execute] [Read] [Write] [Sync]
Permissions Allowed: S-1-3-0 [Generic All] [Object Inherit ACE] [Container Inherit ACE] [Inherit only ACE]
Permissions Allowed: S-1-5-32-545 [Read and Execute] [Read] [Sync] [Object Inherit ACE] [Container Inherit ACE]
Permissions Allowed: S-1-5-32-545 [Create Folders/Append Data] [Container Inherit ACE]
Permissions Allowed: S-1-5-32-545 [Create Files/Write Data] [Container Inherit ACE]

└stuff	└boylove.zip
├2boys	└chamb-2.zip
├muscleboys1	└Chamb-3.zip
├paysite	└Chamb-4.zip
├punk	└Chamb.zip
├└006pbs	└Dad and Son.ZIP
├Vids	└for you.zip
├!!!!.ZIP	└for-inviter-me.zip
├!!!13BIG.ZIP	└jeff.zip
├!13&13masturb.ZIP	└Lloyd.zip
├1.ZIP	├└Lloyd
├angel.zip	└lotsun5598.zip
├Awesome.zip	└my membership pics.zip
├b1.zip	└my post to join.zip
├b2.ZIP	└nude.zip
├ben-2.zip	└stiff.zip
├blooddragon[1].zip	└white.zip

I then continued to examine the link files relating to accessing files within the Folder 'stuff' on drive D:

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Link Files to D:\Stuff

The following link files indicate that the files referred to in the data areas of the below link files were accessed on the 14th May 2003. These files are not necessarily indecent images of children but were nevertheless accessed on the 14th May 2003

Files within Folder C:\Documents and Settings\Robert\Recent

Stuff.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\stuff.Ink

File Created 11/04/03 23:01:18
Last Accessed 14/05/03 22:12:13
Last Written 14/05/03 18:08:48

Embedded Time/Date within file

File Created 14/05/03 17:11:18
Last Accessed 14/05/03 18:08:48
Last Written 14/05/03 18:00:02

Data Structure of File

```
L. . . . . À . . . . . Ff . . . . . ü ¥ ¤ s3. Ã . â Ç 2|;. Ã . Ü . Ö B;. Ã . . . . .  
. . . . . e. . . . . På OD ê :i. ç Ø . . . +0  
0□ . . /D:\. . . . . 6. 1. . . . . ® . . , . . stuff. ". . . . . i ¼ ® .j□ ® .F, . .  
. . s. t. u. f. f. . . . . B. . . . .  
. . . 8. . . . . A. . . . . ñ X\ . . . . ROBS BACKUP. D:\stuff. . . . . X. . . . .  
main. . . . .  
. . . . . ¢ ¼ ö % . † × . □ ‡ . □ - 0. . . . . ¢ ¼ ö % . † × . □ ‡ . □ - 0. . . . .
```

Chips2[1].Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\Chips2[1].Ink

File Created 14/05/03 17:59:07
Last Accessed 14/05/03 22:12:05
Last Written 14/05/03 17:59:07

Embedded Time/Date within file

File Created 10/04/03 12:10:30
Last Accessed 14/05/03 17:59:07
Last Written 03/02/03 13:58:48

Data Structure of File

```
L. . . . . À . . . . . F" . . . . . À ~. î Qÿ Ã . "i ~ !:; Ã . . \ _ ¤ È Ã . . ^ - . . . . .  
. . . . . — . . . . . På OD ê :i. ç Ø . . . +0  
0□ . . /D:\. . . . . 6. 1. . . . . ® . . , . . stuff. ". . . . . i ¼ ® .j□ ® .F, . .  
. . s. t. u. f. f. . . . . J. 2. . ^ - . C.Xo . C  
HIPS2~1.RM. 0. . . . . i ¼ Š .PY® . ¤ □ . . . . . C. h. i. p. s. 2. [ 1. ] . . r. m. . . . . O. . . . .  
. . . . . 8. . . . . N. . . . .  
. . ñ X\ . . . . ROBS BACKUP. D:\stuff\Chips2[1].rm. . . . . D. : . \. s. t. u. f. f. . . . . X. . . . .  
main. . . . .  
. . . . . á ¼ ö % . † × . □ ‡ . □ - 0. . . . . á ¼ ö % . † × . □ ‡ .  
□ - 0. . . . .
```

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EVAC%202002-02%20S073.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\EVAC%202002-02%20S073.Ink

File Created 14/05/03 18:05:59
Last Accessed 14/05/03 22:12:07
Last Written 14/05/03 18:05:59

Embedded Time/Date within file

File Created 20/03/03 22:44:38
Last Accessed 14/05/03 18:05:57
Last Written 30/01/03 20:35:42

Data Structure of File

```
L . . . . . À . . . . . F" . . . . . ÷ . J2i Â . ¼ ç H . ; . Ã . . c9(Ÿ È Â . 5µ . . . . .  
. . . . . É . . . . . Pà OÐ ê :i ç Ø . . +0  
0□ . . /D:\ . . . . . 6 . 1 . . . . . @ . . , . . stuff . " . . . . i ¾ @ .j□ @ .F, . .  
. . s . t . u . f . f . . . . f . 2 . 5µ . . >.uµ . E  
VCF78~1.JPG . J . . . . . i ¾ t . " µ @ . " □ . . . . . E . V . A . C . % . 2 . 0 . 2 . 0 . 0 . 2 . -- 0 . 2 . % . 2 . 0 . S . 0 . 7 .  
3 . . j . p . g . . . . . \ . . . . .  
. . . . . 8 . . . . . [ . . . . . .ñ X\ . . . . . ROBS BACKUP . D:\stuff\EVAC%202002-  
02%20S073.jpg . . . . . D . : . \ . s . t  
. . u . f . f . \ . . . . . X . . . . . main . . . . . ç ò % . †  
x . □ † . □ - 0 . . . . . ç ò % . † x . □  
‡ . □ - 0 . . . . .
```

f179.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\f179.Ink

File Created 14/05/03 18:06:03
Last Accessed 14/05/03 22:12:08
Last Written 14/05/03 18:06:03

Embedded Time/Date within file

File Created 20/03/03 22:44:38
Last Accessed 14/05/03 18:06:01
Last Written 09/02/03 22:20:22

Data Structure of File

```
L . . . . . À . . . . . F" . . . . . @~ . J2i Â . $† ´ . ; . Ã . . x † o% Ð Â . Ð I . . . . .  
. . . . . Ÿ . . . . . Pà OÐ ê :i ç Ø . . +0  
0□ . . /D:\ . . . . . 6 . 1 . . . . . @ . . , . . stuff . " . . . . i ¾ @ .j□ @ .F, . .  
. . s . t . u . f . f . . . . @ . 2 . Ð I . . I . < ² . f  
179.jpg . ( . . . . i ¾ t . " µ @ . " □ . . . . . f . 1 . 7 . 9 . . j . p . g . . . . . K . . . . .  
. . 8 . . . . . J . . . . . .ñ X\ . . . . . K  
EVS BACKUP . D:\stuff\f179.jpg . . . . . D . : . \ . s . t . u . f . f . \ . . . . . X . . . . . main . . . . .  
. . . . .  
ç ò % . † x . □ † . □ - 0 . . . . .  
ç ò % . † x . □ † . □ - 0 . . . . .
```

EnCase Computer Analysis Report Case 245 JRE1

fuck6.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\fuck6.Ink

File Created 14/05/03 18:06:43
Last Accessed 14/05/03 22:12:08
Last Written 14/05/03 18:06:43

Embedded Time/Date within file

File Created 20/03/03 22:44:41
Last Accessed 14/05/03 18:06:41
Last Written 14/01/03 13:01:14

Data Structure of File

```
L. . . . . À . . . . . F" . . . . . À ³ xK2i Â . xô ¶ 0; . Ã . . É ž . í » Â . □ 0 . . . . .  
. . . . . $ . . . . . Pà OÐ è :i· ç Ø . . +0  
0□ . . /D:\ . . . . . . . . . . . . . . . . 6· 1· . . . . . @ . . , . . stuff· " . . . . . i ¼ @ .j□ @ .F, . .  
. . s· t· u· f· f· . . . . . B· 2· □ 0· . . .'h· f  
uck6.jpg· *· . . . . . i ¼ t· . µ @ . . □ . . . . . f· u· c· k· 6· . . j· p· g· . . . . . L· . . . . .  
. . 8· . . . . . K· . . . . . . . . . . . . . . . . ñ X\ . . .  
. ROBS BACKUP· D:\stuff\fuck6.jpg . . . D· :· \· s· t· u· f· f· \· . . . . . X· . . . . . main· . . . . .  
. . . . .  
. . . . . ç õ % · † × · □ ‡ · □ - 0· . . . . . ç õ % · † × · □ ‡ · □ - 0· . . . . .
```

gal2b.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\gal2b.Ink

File Created 14/05/03 18:06:53
Last Accessed 14/05/03 22:12:08
Last Written 14/05/03 18:06:53

Embedded Time/Date within file

File Created 27/03/03 21:05:17
Last Accessed 14/05/03 18:06:52
Last Written 27/03/03 21:05:00

Data Structure of File

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\gal2b.Ink

File Created 14/05/03 18:06:53
Last Accessed 14/05/03 22:12:08
Last Written 14/05/03 18:06:53

```
L. . . . . À . . . . . F" . . . . . à 1† \ ¨ ô Â · ü ¬ Ä 6;· Ä . . æ 4‡ ¨ ô Â · {ž . . . . .  
. . . . . $ . . . . . Pà OÐ è :i· ç Ø . . +0  
0□ . . /D:\ . . . . . . . . . . . . . . . . 6· 1· . . . . . @ . . , . . stuff· " . . . . . i ¼ @ .j□ @ .F, . .  
. . s· t· u· f· f· . . . . . B· 2· {ž . . { . . " . . g  
al2b.jpg· *· . . . . . i ¼ { . © " @ . - □ . . . . . g· a· l· 2· b· . . j· p· g· . . . . . L· . . . . .  
. . 8· . . . . . K· . . . . . . . . . . . . . . . . ñ X\ . . .  
. ROBS BACKUP· D:\stuff\gal2b.jpg . . . D· :· \· s· t· u· f· f· \· . . . . . X· . . . . . main· . . . . .  
. . . . .  
. . . . . ç õ % · † × · □ ‡ · □ - 0· . . . . . ç õ % · † × · □ ‡ · □ - 0· . . . . .
```


grey-trunks.lnk

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\grey-trunks.lnk

File Created 14/05/03 18:07:28

Last Accessed 14/05/03 22:12:10

Last Written 14/05/03 18:07:28

Embedded Time/Date within file

File Created 20/03/03 22:44:44

Last Accessed 14/05/03 18:07:28

Last Written 19/01/03 21:52:54

Data Structure of File

```

L· . . . . . À . . . . . F" . . . . . À ½ · M2i Â · , JnL;· Ã · ?` · · À Â · mG· . . . . .
· . . . . . Pa OD ê :i· ¢ Ø · · +0
0□ · · · · · /D:\· . . . . . 6· 1· . . . . . ® · , · · stuff· "· . . . . . ï ¾ ® .j□ ® .F, · ·
· · s· t· u· f· f· . . . . . R· 2· mG· · 3· > ® · G
REY-T~1.JPG· · 6· . . . . . ï ¾ t· - µ ® · - □ · . . . . . g· r· e· y· -· t· r· u· n· k· s· · j· p· g· . . . . . R·
· . . . . . 8· . . . . . Q·
· . . . . . ñ X\· . . . . . ROBS BACKUP· D:\stuff\grey-trunks.jpg· . . . . . D· :· \· s· t· u· f· f· `· . . . . .
X· . . . . . main· ·
· . . . . .
ç ò % · † × · □ ‡ · □ - 0· . . . . .
ç ò % · † × · □ ‡ · □ - 0· . . . . .

```

hhrtthtrt.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\hhrthtrt.Ink

File Created 14/05/03 18:07:54

Last Accessed 14/05/03 22:12:10

Last Written 14/05/03 18:07:54

Embedded Time/Date within file

File Created 27/04/03 20:17:12

Last Accessed 14/05/03 18:07:52

Last Written 27/04/03 20:16:20

Data Structure of File

[illegible]

IMG_3549.Ink

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\IMG 3594.Ink

File Created 14/05/03 18:08:48

Last Accessed 14/05/03 22:12:11

Last Written 14/05/03 18:08:48

Embedded Time/Date within file

File Created 20/03/03 22:44:49

Last Accessed 14/05/03 18:08:46

Last Written 22/12/02 17:51:28

Data Structure of File

```

L· . . . . À . . . . F" . . . . e† P2i Â . . . . {; Å . . . . ¬ À à © Â . ~, . . . . .
. . . . . ± . . . . Pà OÐ ê :i· ¢ Ø . . . +0
0□ . . . /D:\ . . . . L· 2· ~· . --nŽ· I . . . . 6· 1· . . . . © · . . . stuff· "· . . . . i ¼ © · j□ © · F,· . . .
· s· t· u· f· f· . . . . L· 2· ~· . --nŽ· I . . . . 6· 1· . . . . © · . . . stuff· "· . . . . i ¼ © · j□ © · F,· . . .
MG_3594.jpg· 0· . . . . i ¼ t· mµ © · mµ . . . . I· M· G· _· 3· 5· 9· 4· . . j· p· g· . . . . O· . . . .
. . . . 8· . . . . N· . . . .
. . . . ñ X\· . . . ROBS BACKUP· D:\stuff\IMG_3594.jpg· . . . D· :· \· s· t· u· f· f· \· . . . . X· . . . .
· main· . . . .
. . . . . ç ð %· †× · □ ‡· □ -0· . . . . . ç ð %· †× · □ ‡· □
-0· . . . .

```


CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\img0017.lnk

File Created 14/05/03 18:08:22

Last Accessed 14/05/03 22:12:11

Last Written 14/05/03 18:08:22

Embedded Time/Date within file

File Created 20/03/03 22:44:47

Last Accessed 14/05/03 18:08:21

Last Written 09/01/03 20:53:48

Data Structure of File

```

I. . . . . À . . . . F" . . . . à NiO2i Â . . . . vÇ k;· Ã . . . . Û 4!·, Â · 'ò . . . . .
. . . . . - . . . . Pà OÐ ê :i · ç Ø . . . +0
0□ . . . /D:\. . . . . 6· 1· . . . . ® . . . , . . stuff· ". . . . . ÿ ¼ ® .j□ ® .F,· . .
. . s· t· u· f· f· . . . H· 2· 'ò . . . )· . . ! . . i
mg0017.jpg· . . . . ÿ ¼ t· ~ µ ® · ~ □ . . . . . i· m· g· 0· 0· 1· 7· . . j· p· g· . . . . . N· . . . . .
. . . . . 8· . . . . M· . . . . .
ñ X\· . . . . ROBS BACKUP· D:\stuff\img0017.jpg· . . . D· :· \· s· t· u· f· f· \· . . . . . X· . . . . . main·
. . . . .
. . . . . ç ð % · † × · □ ‡ · □ - 0· . . . . . ç ð % · † × · □ ‡ · □ -
0· . . . . .

```

EnCase Computer Analysis Report Case 245 JRE1

img0027.lnk

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\img0027.lnk

File Created 14/05/03 18:08:36

Last Accessed 14/05/03 22:12:11

Last Written 14/05/03 18:08:36

Embedded Time/Date within file

File Created 20/03/03 22:44:48

Last Accessed 14/05/03 18:08:34

Last Written 09/01/03 20:55:22

Data Structure of File

```
L. . . . . À . . . . . F" . . . . . €
wO2i Â · 4@- s;· Ã · · Yâ l!, Â · ~ 7· . . . . . - . . . . . Pà OÐ ê :i· ¢ Ø · ·
+00□ · · /D:\ · · . . . . . 6· 1
· · · · · @ · · , · · stuff· " · · · · · i ¼ @ .j□ @ .F, · · · · · s· t· u· f· f· · · · · H· 2· ~ 7· · · · · ).ë | · ·
img0027.jpg· · · · · i ¼ t.™ µ @ .~ □ · · · · ·
· i· m· g· 0· 0· 2· 7· · · j· p· g· · · · · N· · · · · · 8· · · · · M· · · · · ·
· · · · · ñ X\ · · · · ROBS BACKUP· D:\stuff\im
g0027.jpg · · · · · D· :· \· s· t· u· f· f· \ · · · · · X· · · · · main· · · · · ·
· · · · · · · · · · · ç ò % · † × · □ ‡ · □ - 0· · · · ·
· · · · · · · · · · · ç ò % · † × · □ ‡ · □ - 0· · · · ·
```

img0028.lnk

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Recent\img0028.lnk

File Created 14/05/03 18:08:40

Last Accessed 14/05/03 22:12:11

Last Written 14/05/03 18:08:40

Embedded Time/Date within file

File Created 20/03/03 22:44:48

Last Accessed 14/05/03 18:08:38

Last Written 09/01/03 20:55:54

Data Structure of File

```
L. . . . . À . . . . . F" . . . . . `ž {O2i Â · X- Mv;· Ã · · · · · )ô □!, Â · ch· · · · ·
· · · · · - . . . . . Pà OÐ ê :i· ¢ Ø · · +0
0□ · · /D:\ · · . . . . . 6· 1 · · · · · @ · · , · · stuff· " · · · · · i ¼ @ .j□ @ .F, · ·
· · s· t· u· f· f· · · · · H· 2· ch· · · · · ).û | · · i
mg0028.jpg· · · · · i ¼ t.™ µ @ .~ □ · · · · · i· m· g· 0· 0· 2· 8· · · j· p· g· · · · · N· · · · · ·
· · · · · 8· · · · · M· · · · · ·
ñ X\ · · · · ROBS BACKUP· D:\stuff\img0028.jpg · · · · · D· :· \· s· t· u· f· f· \ · · · · · X· · · · · main·
· · · · · · · · · · ·
· · · · · · · · · · · ç ò % · † × · □ ‡ · □ - 0· · · · · · · · · · · ç ò % · † × · □ ‡ · □ -
0· · · · ·
```

EnCase Computer Analysis Report Case 245 JRE1

I then examined the history folder for the program Real Player within the Encase image, I saw that the following link files were present which record access to files through real player in the same way that the Windows Operating System tracks files which have been accessed in the recent folders etc

C:\Documents and Settings\Robert\Application Data\Real\History

babys01%5B1%5D[1]_mps.lnk

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\babys01%5B1%5D[1].mps.lnk

File Created 14/05/03 17:43:33
Last Accessed 14/05/03 17:43:35
Last Written 14/05/03 17:43:35

Embedded Time/Date within file

File Created 11/04/03 23:39:42
Last Accessed 14/05/03 17:43:35
22/04/03 14:33:00

Data Structure of File

```
L.....Ä.....Fi@.....b>{.Ä.8Ø Kö 7.Ä.□ &B± Ó.Ä.....=.....Pà OÐ ê:j:ç Ø...+0
0□.../C:\.....J.1.....@.Ø b...PROGRA~1...2.....ĩ%Š.ð„@.â □.....P.r.o.g.r.a.m...F.i.l.e.s
.....4.1.....ç.µ...Real.....ĩ%ç.ð´@.â □.....R.e.a.l.....D.1.....—.....REALPL~1.....ĩ%ç.ð´@.â
□.....R.e.a.l.P.l.a.y.e.r.....L.2.....—.....ll. realplay.exe...0.....ĩ%ç.ð´@.q.....r.e.a.l.p.l.a.y.e
.x.e.....j.....4.....Q.....â...P.....C:\.....\MAIN\C Prog
ram Files\Real\RealPlayer\realplay.exe. A. R. e. a. l. O. n. e. P. l. a. y. e. r. C. l. i. p. : f. i. l. e. : / . / D
. / . s. t. u. f. f. / b. a. b. y. s. 0. 1. % . 2. 5. 5. B. 1. % . 2. 5. 5. D. % . 5. B. 1. % . 5. D. m. p. s. < . . . . .
. . . . . P. r. o. g. r. a. m. F. i. l. e. s. \ R. e. a. l. \ R. e. a. l. P. l. a. y. e. r. \ r. e. a. l. p. l. a. y. e
.x. e. B. / . s. t. a. r. t. p. o. s. : 0. 0. : 0. 0. : 0. 0. : 0. 0. : f. i. l. e. : / . / D. : / . s. t. u. f. f. / b. a. b. y. s. 0. 1. %
. 2. 5. 5. B. 1. % . 2. 5. 5. D. % . 5. B. 1. % . 5. D. m. p. s. - C. : \ P. r. o. g. r. a. m. F. i. l. e. s. \ R. e. a. l. \ R. e. a. l
.P. l. a. y. e. r. \ R. e. a. l. P. l. a. y. e. x. e. .... %ProgramFiles%\Real\RealPlayer\RealPlay.exe.....
.....ñ.....hÆ...<ð...ð.....Ä.....pÆ...•.whÆ.....□...pÆ...PQ+w.....□...hÆ...Ä>...
.....ð...J. wHò...$ø w. U± wý ý ý ý...ð wÓ~ç w.....ä~ç w.....A...Pó...³ ð æ wÄ>...B...Pó...Bø...ó...0ð...ý...ý...†
» é w€...è wý ý ý ý³ ð æ w$² - q%. P. r. o. g. r. a. m. F. i. l. e. s. % \ R. e. a. l. \ R. e. a. l. P. l. a. y. e. r. \ R. e. a. l. P. l. a. y
.e. x. e. : l. e. : / . / D. : / . s. t. u. f. f. / b. a. b. y. s. 0. 1. % . 2. 5. 5. B. 1. % . 2. 5. 5. D. % . 5. B. 1. % . 5. D. m. p. s
.....ú...œ...pø...C:
2ë...ð.....è kð w8Î...là p w...4...Ä.....ð...Z...ó...Klð w%...(.Z.....ð...4...
.....ó...ð...ý...$ø wø T± wý ý ý ý □ . ð wý iY w.....Á...ð.....ð.....@.....Ä...Á...
. ^...ð ð...š mÝ wÖ ð.....è ð...© mÝ wÖ ð.....i ð...è G. w. K. wP. w.....&...
.w.....X.....main.....â Epä ~ ä . M½ > é Ý nnz. Ö è² l. l. x. □ / . D. : Î â Epä ~ ä . M½ > é Ý nnz. Ö è² l. l. x. □ /
.D. : Î.....
```

babys01%5B1%5D1_mps.lnk

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\babys01%5B1%5D1.mps.lnk

File Created 14/05/03 17:43:41
Last Accessed 14/05/03 17:43:41
Last Written 14/05/03 17:43:41

Embedded Time/Date within file

File Created 11/04/03 23:39:42
Last Accessed 14/05/03 17:43:41
Last Written 22/04/03 14:33:00

EnCase Computer Analysis Report Case 245 JRE1

Link Files in C:\Documents and Settings\Robert\Application Data\Real\History

The following link files are contained in the folder C:\Documents and Settings\Robert\Application Data\Real\History. They are indicative of common files names used in indecent images of children and clearly indicate the nature of the contents

They are significant in that they can only get into this Historylist by being opened with Real Player

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\boy fuck another on grass.mpg.Ink

File Created 06/05/03 14:15:40
Last Accessed 11/05/03 16:51:16
Last Written 06/05/03 14:15:40

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\15 Year old getting a boner.Ink

File Created 04/05/03 15:32:19
Last Accessed 11/05/03 16:51:14
Last Written 04/05/03 15:32:20

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\young suckers.mpeg.Ink

File Created 06/05/03 14:24:59
Last Accessed 11/05/03 16:51:19
Last Written 06/05/03 14:25:03

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!!!8yr_ghgwfather.mpg.Ink

File Created 06/05/03 14:32:57
Last Accessed 11/05/03 16:51:13
Last Written 06/05/03 14:32:58

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!2boygame11-4.mpg.Ink

File Created 06/05/03 14:33:12
Last Accessed 11/05/03 16:51:13
Last Written 06/05/03 14:33:12

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!15ystiffvibrator.mpeg.Ink

File Created 06/05/03 14:33:40
Last Accessed 11/05/03 16:51:13
Last Written 06/05/03 14:33:41

EnCase Computer Analysis Report Case 245 JRE1

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!2boygame11-2.mpeg.lnk

File Created 04/05/03 15:29:50
Last Accessed 11/05/03 16:51:13
Last Written 04/05/03 15:29:51

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!2boygame11-1.mpeg.lnk

File Created 04/05/03 15:30:03
Last Accessed 11/05/03 16:51:13
Last Written 04/05/03 15:30:04

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\3 cute boys suck and fuck.mpg.lnk

File Created 04/05/03 15:30:47
Last Accessed 11/05/03 16:51:14
Last Written 04/05/03 15:30:47

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\13-jacks_on_bed[1].mpa.lnk

File Created 04/05/03 15:32:07
Last Accessed 11/05/03 16:51:14
Last Written 04/05/03 15:32:08

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!2boygame11-6.mpg.lnk

File Created 27/04/03 23:16:20
Last Accessed 11/05/03 16:51:13
Last Written 06/05/03 14:33:25

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!!sweet10yo.mpg.lnk

File Created 27/04/03 23:16:55
Last Accessed 11/05/03 16:51:13
Last Written 27/04/03 23:16:55

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\!!sweet10yo blonde boy sucks.mps.lnk

File Created 27/04/03 23:19:37
Last Accessed 11/05/03 16:51:13
Last Written 27/04/03 23:19:37

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\10yo Boy Fucks 11yo Boy In Field.mpg.lnk

File Created 27/04/03 23:21:19
Last Accessed 11/05/03 16:51:13
Last Written 27/04/03 23:21:19

EnCase Computer Analysis Report Case 245 JRE1

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\13yorides.lnk

File Created 27/04/03 23:21:53
Last Accessed 11/05/03 16:51:14
Last Written 04/05/03 15:32:12

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\babys01%5B1%5D[1].mps.lnk

File Created 14/05/03 17:43:33
Last Accessed 14/05/03 17:43:35
Last Written 14/05/03 17:43:35

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\babys01%5B1%5D1.mps.lnk

File Created 14/05/03 17:43:41
Last Accessed 14/05/03 17:43:41
Last Written 14/05/03 17:43:41

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\Younger brother jackin.mpg.lnk

File Created 28/04/03 23:58:50
Last Accessed 11/05/03 16:51:19
Last Written 28/04/03 23:58:51

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\Young%20Cocksucker%20%280.05%20Min.%2....lnk

File Created 28/04/03 23:59:05
Last Accessed 11/05/03 16:51:19
Last Written 06/05/03 14:25:07

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\yngblow1.lnk

File Created 28/04/03 23:59:13
Last Accessed 11/05/03 16:51:19
Last Written 06/05/03 14:24:58

CASE245\Seagate ST340810A\C\Documents and Settings\Robert\Application Data\Real\RealOne Player\History\preteen - gay - 11yrolld boy gets suck....lnk

File Created 30/04/03 12:02:45
Last Accessed 11/05/03 16:51:18
Last Written 30/04/03 12:02:46

EnCase Computer Analysis Report Case 245 JRE1

Confiscation

A computer is the sum of all its parts. I ask that at the conclusion of any court case, an application is made under Sec 43(1) of the Criminal Courts Act 1973 for an order to be made for the forfeiture of any computer equipment and compact disks used during the commission of the offences charged.

It is further requested that this equipment to be forfeited and allowed used by the Police within their role of tackling Crime, Computer Crime and Internet Crime.

Indecent Images of Children

Section 1(1) of the Protection of Childrens Act 1978 provides: -

It is an offence for a person

(a).....to make any indecent photograph or pseudo photograph of a child

Sec 7(2) of the Protection of Childrens Act 1978 provides: -

Reference to an indecent photograph include...a copy of an indecent photograph of a child

The evidential indecent images of children in this case are stored only on compact disk, and there exists only one such copy. In accordance with the above sections, and to avoid the commission of a criminal offence, no further copies will be made

These images may be viewed at any time, in connection with legal proceedings by prior arrangement with the Hi –Tech Crime Unit at Gwent Police HQ (Tel 01633 838111) or with the Case Officer