



Examiner Report

Case Information

Case Number	4
Examiner Name	Justin DWasser
Description	Suspected Industrial Espionage

Evidence

Name	Acquisition MD5	Verification MD5	Evidence Number	Examiner Name
INFA 650 LAB 4	cca76432d5fb575e75962fcc7d83 d6e8	cca76432d5fb575e75962fcc7d83 d6e8	1	UMGC

Examination

Forensic Tools Used: EnCase v8.10

Summary:

The forensic tool EnCase v8.10 was used to analyze the email files of Jim Shu which contained evidence of suspected industrial espionage. To that point, numerous email files were identified as suspicious and were therefore analyzed further. Analysis of Jim Shu's email files uncovered evidence that included the transmission of documents describing confidential trade secrets as well as discussions of transmitting those trade secrets with external parties (Sam Spade) for various sums of money.

Description of Tasks Performed:

All email files associated with Jim Shu were acquired using the forensic tool EnCase v8.10. The attached examiner report contains all relevant information, including the sender and recipient of suspicious emails, their contents (including attachments) and the dates and times associated with said emails. Examiner's notes/comments can be found directly above each screenshot within the examiner report pdf.

Images

1 Root folder\Top of Personal Folders\Deleted Items\RE: Bike spec's

Comment Recovered from deleted item. Jim Shu sent Sam Spade an email with an attachment with a purposely altered file extension and requesting money from Sam.

From Jim Shu <Jim_shu@comcast.net>
To 5amspade@myway.com <5amspade@myway.com>
Sent 12/04/06 03:07:16 AM
Received 12/04/06 03:07:00 AM
Subject RE: Bike spec's

You'll have to change the extension to .jpg.

I'm in need of money, can you send a downpayment?

-----Original Message-----

From: Sam [mailto:5amspade@myway.com]
Sent: Sunday, December 03, 2006 7:04 PM
To: Jim_shu@comcast.net
Subject: RE: Bike spec's

I think I can raise another 5 for you. Do you have something I can look at yet?

--- On Sun 12/03, Jim Shu <Jim_shu@comcast.net> wrote:

From: Jim Shu [mailto:Jim_shu@comcast.net]

To: 5amspade@myway.com

Date: Sun, 3 Dec 2006 18:09:06 -0800

Subject: RE: Bike spec's

How much are you willing to pay me to get these plans to you?Jim-----Original Message -----From: Sam [mailto:5amspade@myway.com] Sent: Sunday, December 03, 2006 5:40 PMTo: jim_shu@comcast.netSubject: Bike spec'sDo you have them yet?I've got people in Asia ready to duplicate them?Sam_____No banners. No pop-ups. No kidding.Make My Way

your home on the Web - <http://www.myway.com>

No banners. No pop-ups. No kidding.
Make My Way your home on the Web - <http://www.myway.com>

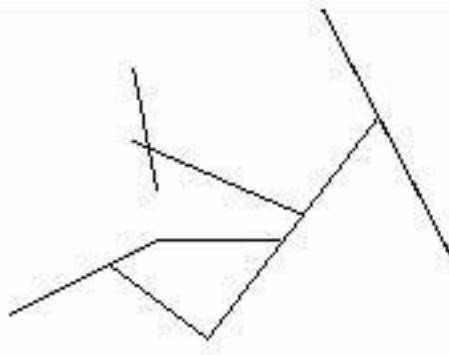
Attachments

Name	AC19.gpj
Last Modification Time	12/04/06 03:06:29 AM
Logical Size	6,720
AC19.gpj	

2 AC19 .gpj

Name	AC19.gpj
File Created	12/04/06 03:06:29 AM
Last Written	
Last Accessed	

Page 1



3 Root folder\Top of Personal Folders\Deleted Items\FW: problem

Comment Recovered from deleted item. Jim Shu forwarding email to another email account associated with Jim Shu. Contents detail Bob asking Jim for \$5k in exchange for sending Jim "plans".

From	Jim Shu <Jim_shu@comcast.net>
To	jim_shu1@yahoo.com <jim_shu1@yahoo.com>
Sent	12/07/06 11:39:30 PM
Received	12/07/06 11:39:00 PM
Subject	FW: problem

From: baspen99@aol.com[mailto:baspen99@aol.com]
Sent: Sunday, December 03, 2006 6:05 PM
To: jim_shu@comcast.net
Subject: problem

I'm going to need another \$5k to get these plans to you.

How soon can you pay up?

Check out the new AOL. Most comprehensive set of free safety and security tools, free access to millions of high-quality videos from across the web, free AOL Mail and more.

4 Root folder\Top of Personal Folders\Deleted Items\FW: another sample

Comment Recovered from deleted item. Jim Shu forwarding email to another email account associated with Jim Shu. Contents detail Bob sending Jim an attachment Bob terms a "sensitive document".

From Jim Shu <Jim_shu@comcast.net>
To jim_shu1@yahoo.com <jim_shu1@yahoo.com>
Sent 12/07/06 11:39:03 PM
Received 12/07/06 11:39:00 PM
Subject FW: another sample

From: baspen99@aol.com[mailto:baspen99@aol.com]
Sent: Sunday, December 03, 2006 6:21 PM
To: jim_shu@comcast.net
Subject: another sample

Jim,

Use this one sparingly. It is too sensitive a document.

Bob

Check out the new AOL. Most comprehensive set of free safety and security tools, free access to millions of high-quality videos from across the web, free AOL Mail and more.

Attachments

Name	Tubing Materials.rtf
Logical Size	4,276

[Tubing Materials.rtf](#)

§ **Tubing Materials.rtf**

Name Tubing Materials.rtf

File Created

Last Written

Last Accessed

Page 1

Materials for Apache 01 Tubing

Carbon fiber -- titanium mesh -ballistic nylon and resin composite used in the tubing of this bicycle will allow the frame to weigh approximately .68 of that of a conventional bicycle (using aluminum alloy) and .85 of titanium frame. Strength is 1.05 to 1.15 of that of titanium frame.

The processes involve layering the titanium screen between layers of carbon fiber and ballistic nylon and binding them with resin under heat (at 215 degrees centigrade, +/- 2.0 degrees) and pressure (37.5 kg/cm2, +/- .5 kg/cm2).

The layering is:

0.2 mm uv resistant colored nylon fabric
0.05 mm resin
0.2 mm oxygen impermeable nylon fabric
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 resin 0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 resin

ABC Proprietary
Competition Sensitive-Trade Secret

0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm carbon fiber fabric
0.05 mm resin
0.2 mm titanium screen
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm ballistic nylon fabric
0.05 mm resin
0.2 mm oxygen impermeable nylon fabric

After pressure and heat treatment this material is 6.0 mm in thickness (+/- .05 mm).

A unique process involved is in the operation of the press allowing the creation of near perfect (tolerance of 0.1% deviation on any measured cross section) cylindrical components (which become the tubes of the frame).

The inner surface of the press directly controls pressure and is balanced with the exterior press (both are hydraulic).

Strength and dimensional accuracy as well as dimensional stability are critical, in addition to supporting the rider and equipment routinely found on any bicycle, it supports special equipment including servos and the tube is also the housing for the electronic components (the computer) that automate control of other functions of the bicycle.

ABC Proprietary
Competition Sensitive-Trade Secret

📁 Root folder\Top of Personal Folders\Inbox\Bike spec's

Comment Sam Spade asking Jim Shu about bike specs and relaying that "people in Asia ready to duplicate them".

From Sam <5amspade@myway.com>

To jim_shu@comcast.net <jim_shu@comcast.net>
Sent 12/04/06 01:39:40 AM
Received 12/04/06 01:39:29 AM
Subject Bike spec's

Do you have them yet?
I've got people in Asia ready to duplicate them?
Sam

No banners. No pop-ups. No kidding.
Make My Way your home on the Web - <http://www.myway.com>

7) Root folder\Top of Personal Folders\Inbox\RE: Bike spec's

Comment Sam Spade asking Jim Shu about bike specs and asking Jim about exchange of money.

From Sam <5amspade@myway.com>
To jim_shu@comcast.net <jim_shu@comcast.net>
Sent 12/04/06 02:14:14 AM
Received 12/04/06 02:14:02 AM
Subject RE: Bike spec's

We might be able to go \$4000 if it is good. Is it? Sam

--- On Sun 12/03, Jim Shu <jim_shu@comcast.net> wrote:

From: Jim Shu [mailto:jim_shu@comcast.net]

To: 5amspade@myway.com

Date: Sun, 3 Dec 2006 18:09:06 -0800

Subject: RE: Bike spec's

How much are you willing to pay me to get these plans to you? Jim-----Original Message -----From: Sam [mailto:5amspade@myway.com] Sent: Sunday, December 03, 2006 5:40 PM To: jim_shu@comcast.net Subject: Bike spec's Do you have them yet? I've got people in Asia ready to duplicate them? Sam _____ No banners. No pop-ups. No kidding. Make My Way your home on the Web - <http://www.myway.com>

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8 Root folder\Top of Personal Folders\Inbox\RE: Bike spec's

Comment Sam Spade asking Jim Shu about bike specs and relaying that I he may be able to raise more money for Jim.

From Sam <5amspade@myway.com>
To Jim_shu@comcast.net <Jim_shu@comcast.net>
Sent 12/04/06 03:04:21 AM
Received 12/04/06 03:04:09 AM
Subject RE: Bike spec's

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Make My Way your home on the Web - <http://www.myway.com>

9 Root folder\Top of Personal Folders\Inbox\RE: Bike spec's

Comment Sam Spade asking Jim Shu about bike specs and relaying that "overseas investors ready to move" and asking Jim how much money he needs.

From Sam <5amspade@myway.com>
To Jim_shu@comcast.net <Jim_shu@comcast.net>
Sent 12/07/06 02:14:29 AM
Received 12/07/06 02:14:19 AM
Subject RE: Bike spec's

I've got some overseas investors ready to move. How much money do you really need to get this started?
Sam

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To: 5amspade@myway.com

Date: Sun, 3 Dec 2006 19:07:16 -0800

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To: jim_shu@comcast.net
Subject: Bikespec's
Do you have them yet? I've got people in Asia ready to duplicate them? Sam
No banners. No pop-ups. No kidding. Make My Way your home on the Web - <http://www.myway.com>
No banners. No pop-ups.
No kidding. Make My Way your home on the Web - <http://www.myway.com>
Attachment: AC19.gpj (8.98KB)

No banners. No pop-ups. No kidding.
Make My Way your home on the Web - <http://www.myway.com>

1) Root folder\Top of Personal Folders\Sent Items\RE: Bike spec's

Comment Jim Shu asking Sam Spade "how much money are you willing to pay me to get these plans to you?".

From Jim Shu <Jim_shu@comcast.net>
To 5amspade@myway.com <5amspade@myway.com>
Sent 12/04/06 02:09:06 AM
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Glossary

The following terms and definitions may be used throughout the report.