ADMISSIBILITY OF DIGITAL EVIDENCE

Prof. Fred C. Moss S.M.U. Dedman School of Law 3/09

WHAT IS "DIGITAL EVIDENCE" OR "E.S.I."?

- PRE-EXISTING, COMPUTER-STORED INFORMATION IN
 - **OBUSINESS RECORDS**
 - **OEMAIL**
 - **OWEB PAGES**
 - **OCHAT ROOM DISCUSSIONS**
 - **OTEXT MESSAGES**
 - **OVIDEOS/PHOTOS**

COMPUTER-GENERATED EVIDENCE

- NOT A RECORD ENTERED BY A HUMAN: E.G.,
 - **OTIME/DATE STAMPS**
 - OINTERNET SERVICE PROVIDER (ISP) INFORMATION ON EMAILS
 - **OMETADATA**

EVIDENCE RULES APPLICABLE TO DIGITAL EVIDENCE

- AUTHENTICATION (R. 901, 902)
- RELEVANCE (R. 401)
- UNDUE PREJUDICE (R. 403)
- HEARSAY (R. 801-804)
- BEST EVIDENCE RULE (R. 1001-1009)

AUTHENTICATION OF DIGITAL EVIDENCE

• R. 901(a): PROOF "SUFFICIENT TO SUPPORT A FINDING THAT THE MATTER IS WHAT ITS PROPONENT CLAIMS" IT IS.

• OR

• EVIDENCE FROM WHICH A "REASONABLE JUROR COULD FIND" THAT THE EVIDENCE IS WHAT THE PROPONENT CLAIMS IT TO BE.

THE INTERTWINED AUTHENTICATION/RELEVANCE ISSUES

- "WHAT DOES THE PROPONENT CLAIM THE EVIDENCE IS?"
 - **OEMAIL**
 - **FROM "X", OR**
 - ×FROM 'X' TO "Y", OR
 - *FROM 'X' TO 'Y' ON A CERTAIN DATE (= THE RELEVANCY ISSUE)

RULE 901: AUTHENTICATING ESI WITH EXTRINSIC PROOF

- <u>HYPO</u>: 'X' IS ON DEFERRED DISPOSITION W/ CONDITION HE NOT USE ILLEGAL SUBSTANCES
- "G" THEN EMAILS/SHOWS THE POLICE:
 - 1. A CELL PHONE PICTURE OF 'X' TAKING A "BONG" HIT;
 - 2. A COPY OF A TEXT MESSAGE FROM 'X' TO 'G' DESCRIBING HOW HE GOT "WASTED" ON "WEED" LAST WEEKEND;
 - 3. A TIP TO CHECK OUT 'X"S "MYSPACE" PAGE WHERE HE DESCRIBES HIS "WASTED" WEEKEND.

"WHAT A DOPE!"



CELL PHONE PICTURE

• R. 901(1): TESTIMONY OF PERSON WITH FIRST-HAND KNOWLEDGE, SUCH AS,

OTAKER OF THE PICTURE

OPERSON WHO SAW THE EVENT

CELL PHONE PICTURE

- R. 901(4): "APPEARANCE, CONTENTS, SUBSTANCE, INTERNAL PATTERNS, OR OTHER DISTINCTIVE CHARACTERISTICS TAKEN IN CONJUNCTION WITH CIRCUMSTANCES."
- <u>E.G</u>.,
 - 1. ABSENCE OF FACIAL HAIR WORN 'TIL RECENTLY,
 - 2. A NEW BODY PIERCING SHOWN
 - **o 3. A RECENT INJURY SHOWN**

TEXT MESSAGE OR EMAIL

• R. 901(1): TESTIMONY BY A PERSON WITH KNOWLEDGE

 1. IDENTIFIED BY PERSON WHO WROTE AND SENT, OR RECEIVED IT.

2. EMAIL CAME FROM A COMPUTER
 THE ALLEGED SENDER/RECEIVER HAD
 PRIMARY ACCESS TO

Stewart Adems

From: Stewart Partial

Sent: Thursday, August 21, 2006 1:31 PM

Yes: Sammy Lighting!

Bubject: RE: Micro

okay, lefe hum them loose linen. Stewart

Prom: Sammy Lightney (

Sent: Thursday, August 21, 2006 1:27 PM

Tot stary, standill the second

Bubjack: RE: More

Whitfield the relatined sample up into Variegote and Buttor. The results Daibel show the product to be class, and "in open" for micro analysis. Results attached.

Prome Stevent Pernel :

568th Thursday, August 21, 2008 12:59 PM

Tor Serviny Lightsley's Subjects RE: Marc

any word back yet from Olebei?

Prom: Servicy Lightway

Service Tuesday, August 19, 2008 1:50 PM

To: "Simpert Pernell" Subjects Micro

Samples era palled every hour during the days production.

- Samples are composited and analyzed for Micros.
- Each used to J.Luck in Albany GA
- Samples polici on Monday, August 11, 2008 (8224) Insted Positive for Salmonella.

R. 901(4): "DISTINCTIVE CHARACTERISTICS"

- EMAIL ADDRESS KNOWN TO A WITNESS
- IDENTIFIABLE EMAIL ADDRESS (fmoss@smu.edu)
 - >Plus "judicial notice" that no two people can have the identical yahoo address
- SUBSTANCE OF THE MESSAGE UNIQUELY KNOWN TO THE ALLEGED SENDER: "REPLY LETTER" RULE
- SUBSEQUENT CONDUCT BY THE ALLEGED SENDER CONSISTENT WITH THE EMAIL.
- FOUND ON ALLEGED SENDER'S COMPUTER WITH THE SAME DATE/TIME ON IT.
- INFORMATION OBTAINED FROM THE ISP
- "CHAIN OF CUSTODY"

PRINTOUTS OF WEBSITE PAGES

- THREE QUESTIONS:
- 1. WHAT WAS ACTUALLY ON THE WEBSITE?
- 2. DOES THE EXHIBIT OR TESTIMONY ACCURATELY REFLECT IT?
- 3. IF SO, IS IT ATTRIBUTABLE TO THE OWNER OF THE SITE? (= RELEVANCE)

RULES MOST LIKELY TO APPLY

- 901(B)(1) (WITNESS WITH PERSONAL KNOWLEDGE)
- 901(B)(3) (EXPERT TESTIMONY)
- 901(B)(4) (DISTINCTIVE CHARACTERISTICS)
- 901(B)(7) (PUBLIC RECORDS)
- 901(B)(9) (SYSTEM OR PROCESS CAPABLE OF PRODUCING A RELIABLE RESULT)
- 902(5) (OFFICIAL PUBLICATIONS).

MYSPACE PAGE TEXT OR VIDEO

- 1. THE INDIVIDUAL USED THE SCREEN NAME IN QUESTION IN CHAT ROOM CONVERSATIONS;
- 2. WHEN A MEETING WITH THE PERSON USING THE SCREEN NAME WAS ARRANGED, THE INDIVIDUAL SHOWED UP;
- 3. THAT THE PERSON USING THE SCREEN NAME IDENTIFIED HIMSELF ON LINE AS THE INDIVIDUAL;
- 4. THE INDIVIDUAL POSSESSED INFORMATION GIVEN TO THE PERSON USING THE SCREEN NAME;
- 5. THE HARD DRIVE OF THE INDIVIDUAL'S COMPUTER SHOWS USE OF THE SCREEN NAME.

DIGITALLY STORED BUSINESS RECORDS

- R. 901(9): EVIDENCE THAT THE "PROCESS OR SYSTEM" FOR DIGITIZING AND MAINTAINING THE INTEGRITY OF THE RECORDS IS ACCURATE/RELIABLE.
- R. 803(6) "PLUS": TESTIMONY BY CUSTODIAN OR OTHER PERSON COMPETENT TO PROVIDE THE INFORMATION REQUIRED BY R. 803(6), "PLUS" VERIFY THE VALIDITY OF THE COMPUTER SYSTEM.

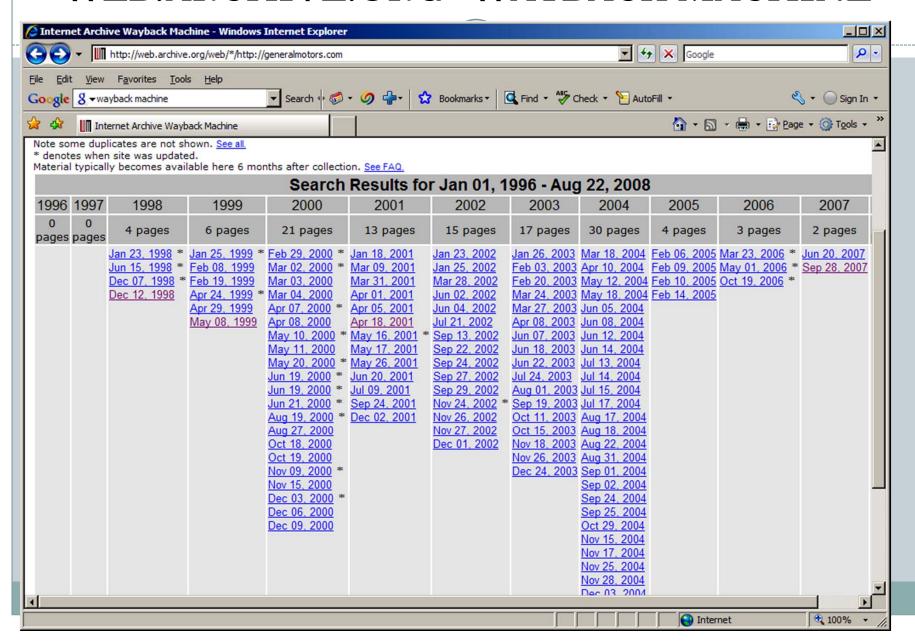
BUSINESS WEBSITE PRINTOUTS

• 902(7) – TRADE INSCRIPTIONS = SELF AUTHENTICATING

• 901(1) - PERSON WITH FIRST HAND KNOWLEDGE

• SEE <u>Daimler-Benz Aktiengesellschaft v.</u> <u>Olson</u>, 21 S.W.3d 707 (Tex.App.-Austin, 2000, dism.).

WEB.ARCHIVE.ORG "WAYBACK MACHINE"



GOVERNMENT RECORDS

• SELF-AUTHENTICATION:

- <>902(5) -OFFICIAL PUBLICATIONS / WEBSITES <>902(1) - UNDER SEAL,
- O <>902(2) SIGNED BY ONE IN AN OFFICIAL CAPACITY WITH THE AGENCY,
- <>902(4) CERTIFIED COPIES OF PUBLIC RECORDS AUTHENTICATED PER 902 (1) AND (2) (= A BEST EVIDENCE RULE), OR
- 901(7) EXTRINSIC EVIDENCE BY A WITNESS WITH KNOWLEDGE OF THE SOURCE OF THE RECORD

COMPUTER-GENERATED EVIDENCE

- E.G., AUTOMATED PHONE AND COMPUTER RECORDS AND IDENTIFIERS, ISP LOGS, ATM RECEIPTS/RECORDS, TIME STAMPS, VEHICLE OPERATION DATA, METADATA.
- IDENTITY OF THE AUTHOR IS IMMATERIAL
- THE QUESTION IS THE ACCURACY OF THE INFORMATION GENERATED BY THE MACHINE
- R. 901(9) APPLIES

HEARSAY AND DIGITAL EVIDENCE – RULES 801-804

- AUTOMATICALLY GENERATED COMPUTER INFORMATION/DATA IS NOT HEARSAY
- <u>E.G.</u>, AUTOMATED PHONE AND COMPUTER RECORDS AND IDENTIFIERS, ISP LOGS, TIME STAMPS, ATM RECEIPTS/RECORDS, VEHICLE OPERATION DATA, METADATA
- NOT A STATEMENT BY A "PERSON" –
 R. 801(b), (d)

"PERSON"-GENERATED, COMPUTER STORED EVIDENCE

- WHEN NOT HEARSAY:
 - O 1. NOT OFFERED FOR THE TRUTH OF THE MATTER, E.G.
 - *** a.** TO SHOW EFFECT ON [STATE OF MIND OF] THE RECIPIENT/HEARER
 - × b. TO SHOW KNOWLEDGE POSSESSED BY RECIPIENT, OR WHEN THE INFORMATION WAS LEARNED
 - **c.** PRIOR INCONSISTENT STATEMENT

"PERSON"-GENERATED, COMPUTER STORED EVIDENCE

- WHEN OFFERED FOR THE TRUTH OF THE FACT ASSERTED, BUT ADMISSIBLE ANYWAY:
- 2. MEETS AN EXCEPTION OR EXEMPTION, E.G.
- a. A PARTY "ADMISSION" = AUTHORED BY THE OPPOSING PARTY OR HIS AGENT (R. 801(e)(2))
- b. PRESENT SENSE IMPRESSION R. 803(1)
- c. EXCITED UTTERANCE (??) R. 803(2)
- d. STATE OF MIND OF THE DECLARANT 803(3)
- e. **BUSINESS RECORDS 803(6)**
- f. PUBLIC RECORDS 803(8)
- g. MARKET REPORTS, COMMERCIAL PUBLICATIONS 803(17)
- h. STATEMENT AGAINST INTEREST 803(24)

BEST EVIDENCE RULE – RULE 1001 ET SEQ.

• REQUIRES THE PROPONENT OF EVIDENCE TO PRODUCE THE ORIGINAL

• WRITING

• RECORDING, OR

OPHOTOGRAPH

R. 1001(a): "WRITINGS AND RECORDINGS"

• "WRITINGS AND RECORDINGS CONSIST OF LETTERS, WORDS, OR NUMBERS OR THEIR EQUIVALENT, SET DOWN BY . . . ELECTRONIC RECORDING, OR OTHER FORM OF DATA COMPILATION."

"ORIGINAL"

- R. 1001(c):
- "IF DATA ARE STORED IN A COMPUTER OR SIMILAR DEVICE, ANY PRINTOUT OR OTHER OUTPUT READABLE BY SIGHT, SHOWN TO REFLECT THE DATA ACCURATELY, IS AN ORIGINAL"
 - "SIMILAR DEVICE" = CELL PHONES, IPODS, BLACKBERRIES, PAGERS

"SHOWN TO REFLECT THE DATA ACCURATELY"

- THE EQUIPMENT CAN PERFORM THE FUNCTIONS CLAIMED AND WAS WORKING PROPERLY,
- THE COMPUTER USED A RELIABLE PROGRAM THAT CAN DO WHAT IT IS PURPORTED TO HAVE DONE,
- QUALIFIED OPERATORS RAN THE EQUIPMENT,
- THEY FOLLOWED PROPER INPUT AND OUTPUT PROCEDURES
- PRESERVATION OF THE DATA UNTIL PRESENTED IN COURT

R. 1001(c) - AN 'ORIGINAL' OF A PHOTOGRAPH [& VIDEO RECORDING]

- "INCLUDES THE <u>NEGATIVE</u> OR <u>ANY PRINT</u> <u>THEREFROM."</u>
- PHOTOS PRINTED FROM COMPUTER???
- PHOTOS DOWNLOADED TO DISK???
- COURTS TREAT PRINTED COPIES OF DIGITAL VIDEOS/PHOTOS FROM A COMPUTER TO BE "ORIGINALS" THOUGH NOT MADE FROM A "NEGATIVE." SEE 1001(a).

EXCEPTION TO THE BEST EVIDENCE RULE: R. 1004

- "THE ORIGINAL OR A DUPLICATE IS NOT REQUIRED, AND OTHER EVIDENCE OF THE CONTENTS OF A WRITING, RECORDING, OR PHOTOGRAPH IS ADMISSIBLE IF:

 (1) ORIGINALS LOST OR DESTROYED. ALL ORIGINALS ARE LOST OR HAVE BEEN DESTROYED, UNLESS THE PROPONENT LOST OR DESTROYED THEM IN BAD FAITH;"
- (2) "ORIGINAL NOT OBTAINABLE...."
- (3) "ORIGINAL OUTSIDE THE STATE...."
- (4) "ORIGINAL IN POSSESSION OF OPPONENT...."
- (5) "COLLATERAL MATTER...."

EXCEPTIONS TO THE BEST EVIDENCE RULE: R. 1005

• PUBLIC RECORDS:

"THE CONTENTS OF AN OFFICIAL RECORD [OR RECORDED DOCUMENT], INCLUDING DATA COMPILATIONS OF IN ANY FORM, ... MAY BE PROVED BY COPY, CERTIFIED AS CORRECT IN ACCORDANCE WITH RULE 902..."