



PROGRAM MATERIALS

Program #32141

August 16, 2022

Attorney Ethics and Electronically Stored Information

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Attorney Ethics and Electronically Stored Information

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- Cellphones
- Computers & Tablets
- External Hard Drives
- Smart Devices
- Emails & SMS
- Social Media Accounts
- Cloud Data
- Electronic Medical Records



Business
Litigation



Employment
Law



Schools and
Higher-Ed



Medical
Malpractice



IP Theft



Bankruptcy

About Brian Chase

- Undergraduate Degree in MIS from the University of Arizona
- Law Degree from the University of Arizona
- Licensed to practice law in Arizona and New York
- Managing Director of Digital Forensics at ArcherHall
- Adjunct professor of law at the University of Arizona
- Testimony in State and Federal Court, Civil and Criminal Cases
- Misdemeanor and felony trials as an attorney

Identifying ESI



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AIM HIGH

Device Sources



DESKTOP



LAPTOP



MUSIC PLAYER



NETWORK
EQUIPMENT



NOT-SO-SMART
PHONE



PRINTERS



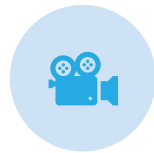
SMART PHONE



DIGITAL
CAMERA



TABLET



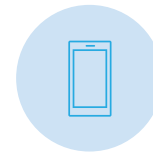
VIDEO CAMERA



VEHICLE
CANBUS



VIDEO GAME
SYSTEM



PERSONAL
DIGITAL
ASSISTANT



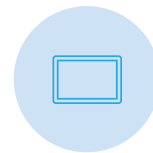
ANSWERING
MACHINE



GPS



SECURITY
SYSTEM

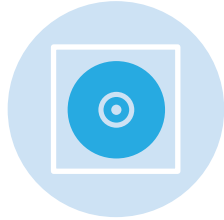


EREADER



IOT DEVICES

Media Sources



CD/DVD



CLOUD
STORAGE



FLOPPY
DISK



HARD
DRIVE



MAGNETIC
TAPE



THUMB
DRIVE



SD CARD

Cloud Sources



Data / File Types



DATABASES



DEVICE
SETTINGS



DIAGRAMS



DRAWINGS



EMAIL



GEOLOCATION
DATA



IMAGES



PDF



SOCIAL MEDIA
POSTINGS



SPREADSHEETS



TEXT
MESSAGES



VIDEO



AUDIO



WEB PAGES



WORD
PROCESSING
DOCS



VIRTUAL DISKS



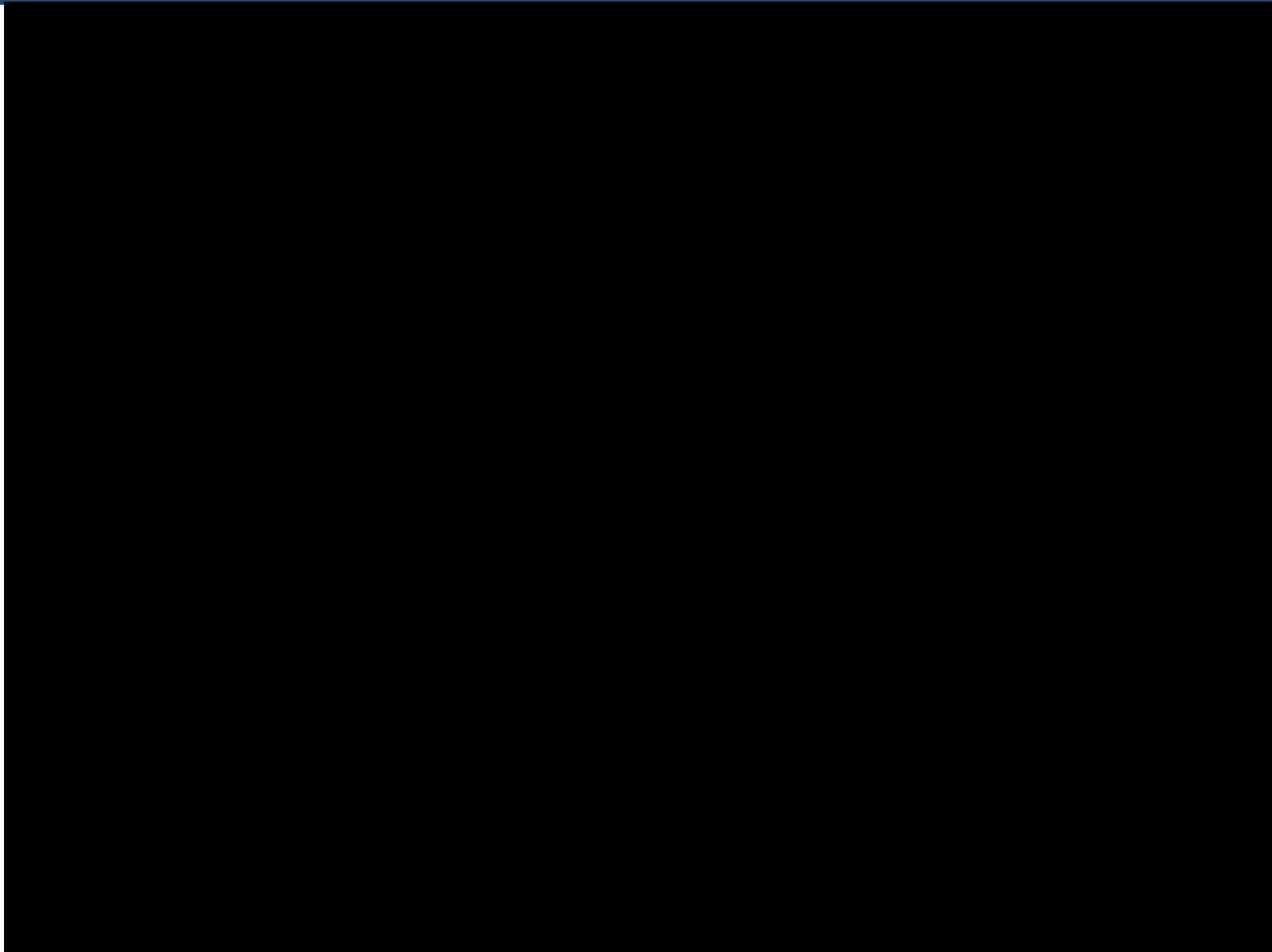
PRESENTATIONS



INTERNET
ACTIVITY



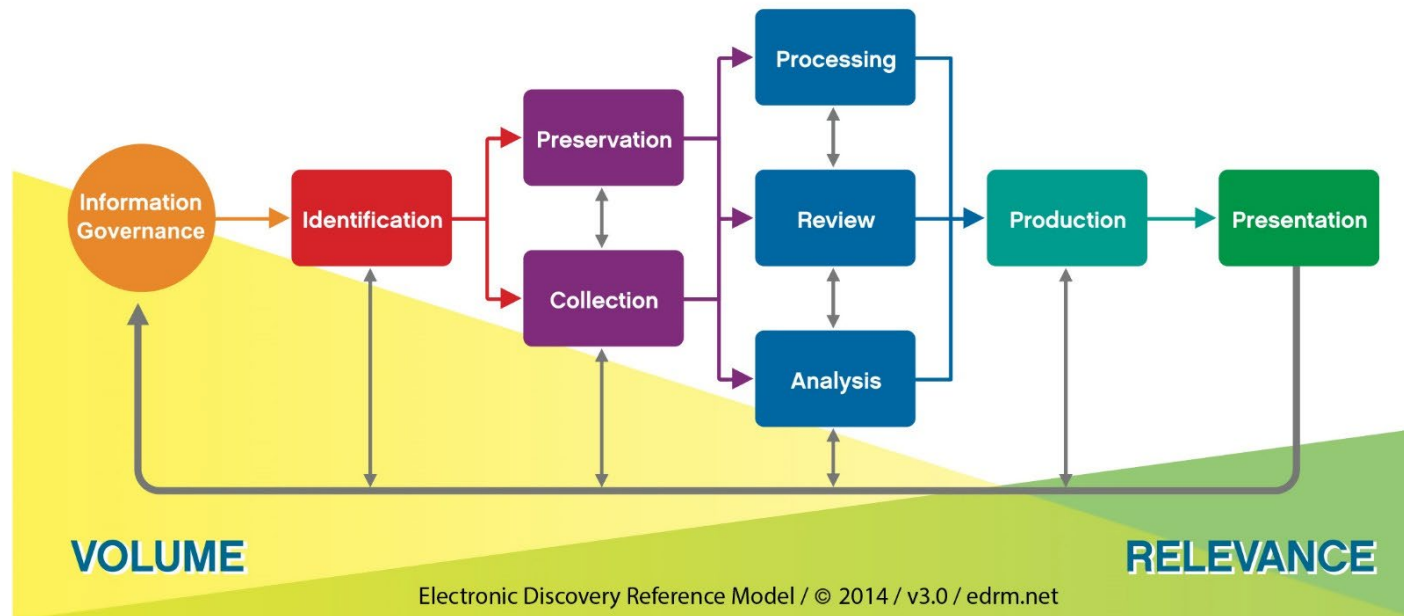
NETWORK
INFORMATION



Electronic Discovery or eDiscovery

- The process of locating, securing, and searching ESI to use as evidence in a legal proceeding.

Electronic Discovery Reference Model



Digital Forensics

- The use of specialized techniques for recovery, authentication and analysis of ESI.



Metadata

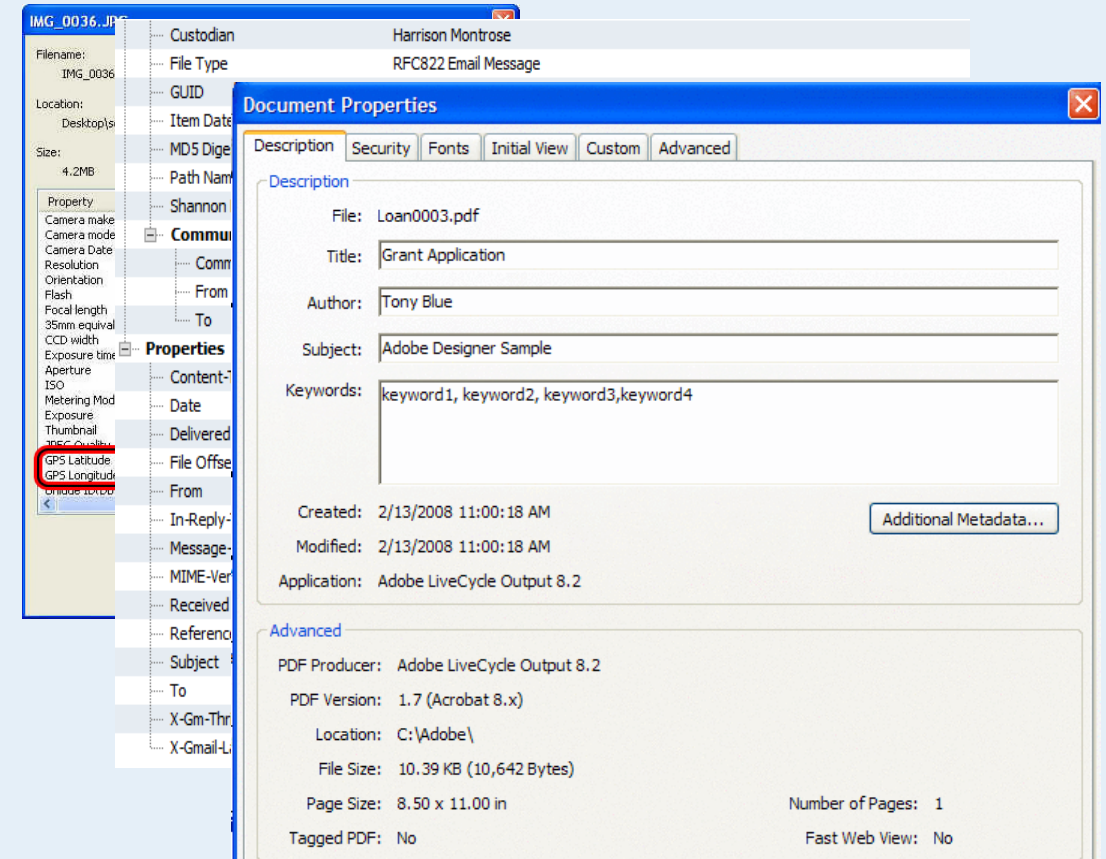
- Information about Data

- Internal

- Stored within the file itself
- Comprehensive

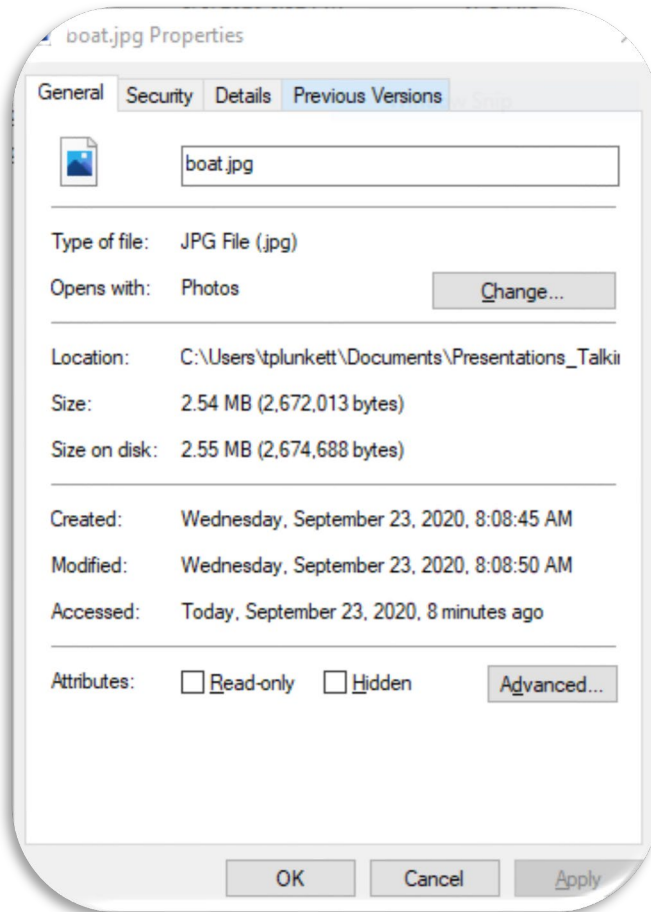
- External

- Stored in the file system
- Summary



Internal vs External

External Metadata



Internal Metadata

Lens Make : Apple
Lens Model : iPhone X back dual camera 6mm f/2.4
GPS Latitude Ref : North
GPS Longitude Ref : West
GPS Altitude Ref : Above Sea Level
GPS Speed Ref : km/h
GPS Speed : 4.308832651
GPS Img Direction Ref : Magnetic North
GPS Img Direction : 305.0164948
GPS Dest Bearing Ref : Magnetic North
GPS Dest Bearing : 305.0164948
GPS Horizontal Positioning Error: 8.001208277 m

Shutter Speed : 1/625
Create Date : 2020:08:09 18:52:51.554-04:00
Date/Time Original : 2020:08:09 18:52:51.554-04:00
Modify Date : 2020:08:09 18:52:51-04:00
Thumbnail Image : (Binary data 8255 bytes, use -b option to extract)
GPS Altitude : 234 m Above Sea Level
GPS Latitude : 42 deg 45' 3.61" N
GPS Longitude : 85 deg 32' 5.00" W
Circle Of Confusion : 0.003 mm

CALIFORNIA ETHICS OPINION 2015-193



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AIM HIGH

Guidance From The California State Bar

- **What are an attorney's ethical duties in the handling of discovery of electronically stored information?**
 - Basic understanding of, and facility with, issues related to eDiscovery and ESI
 - Duty of competence may vary case-by-case, requiring a higher level of technical knowledge
 - An attorney lacking the required competence for e-discovery issues has three options:
 - Acquire sufficient learning and skill before performance is required
 - Associate with or consult technical consultants or competent counsel
 - Decline the client representation
 - Lack of competence in eDiscovery issues also may lead to an ethical violation of an attorney's duty of confidentiality

Nine Skills of Competency

1. Initially assess eDiscovery needs and issues, if any
2. Implement or cause to implement appropriate ESI preservation procedures
3. Analyze and understand a client's ESI systems and storage
4. Advise the client on available options for collection and preservation of ESI
5. Identify custodians of potentially relevant ESI
6. Engage in competent and meaningful meet and confer with opposing counsel concerning an eDiscovery plan
7. Perform data searches
8. Collect responsive ESI in a manner that preserves the integrity of that ESI
9. Produce responsive non-privileged ESI in a recognized and appropriate manner

Guidance From The State Bar

1. Initially assess eDiscovery needs and issues, if any.

- What information could I possibly be looking for?
 - New data formats – cloud hosted – client may not be aware
- Where could that information be located?
 - My client's possession
 - Opposing client's possession
 - 3rd party possession

Interviews and Investigation

- **Talk to your client**
 - What devices do they use?
 - What accounts do they have?
 - Walk through a typical day to identify potential sources of information
- **Identify others to interview**
 - IT staff? Admin staff?
 - Witnesses/3rd Parties
 - Ask them about data, accounts, devices, etc.

Guidance From The State Bar

2. Implement/cause to implement appropriate ESI preservation procedures.

- Time Sensitive
 - What information could be deleted or wiped?
 - Phone company and Internet Service Provider (ISP) records
 - Backups
 - Emails

Preservation



In-Place

Usually corporate environment

Allows continued use of data
without modification

No immediate collection

Metadata is preserved



Forensic

Physical – Bit-for bit copy of a
device

Logical – Mirror copy of the ESI
Preserves all available metadata



Non-Forensic

Copy and Paste

Email forwarding

Zip files

Metadata may be lost

Guidance From The State Bar

3. Analyze and understand a client's ESI systems and storage.

- Computer, Server, Backups, External Drives
- Smartphone / Cell Phone
- Cloud Storage/Backup (Google Drive, DropBox, OneDrive, CrashPlan)
- Cameras / Video Surveillance
- New Types of ESI

Guidance From The State Bar

4. Advise the client on available options for collection and preservation of ESI.

- Digital Forensics / eDiscovery Expert
 - Forensic Collection / Preservation to meet court requirements
 - Organizational integrity
- Attorney retains evidence
- Vendor or another attorney supervise collection
- Having IT staff perform collection is usually insufficient

Guidance From The State Bar

5. Identify custodians of potentially relevant ESI.

- Your client / opposing party
- Other employees at the firm
- IT Employees
- Telephone / Cell Phone Companies
- Internet Service Providers
- Hosted Application Providers (Salesforce, Online Time Card, Facebook, DropBox, etc)
- Email / Text Message CC Recipients

Guidance From The State Bar

6. Engage in competent and meaningful meet and confer with opposing counsel concerning an eDiscovery plan.
 - Work with your client to determine clear search terms.
 - Consult with e-discovery or forensics expert regarding potential search terms and also potential overbroad search terms.
 - Review data obtained from your clients before it is released to opposing counsel.
 - Do not rely on claw back

Guidance From The State Bar

7. Perform data searches

- Search both searchable and non-searchable data
 - Some files may require OCR or manual review
- Alternate spellings / misspellings
- Avoid terms such as single or short words
- Use Boolean Logic (AND, OR, NOT) to be as precise as possible
 - (“peanut butter” AND jelly) w/1 (sandwich OR sammich)
- Indexed searches vs. Plain Text or Raw search

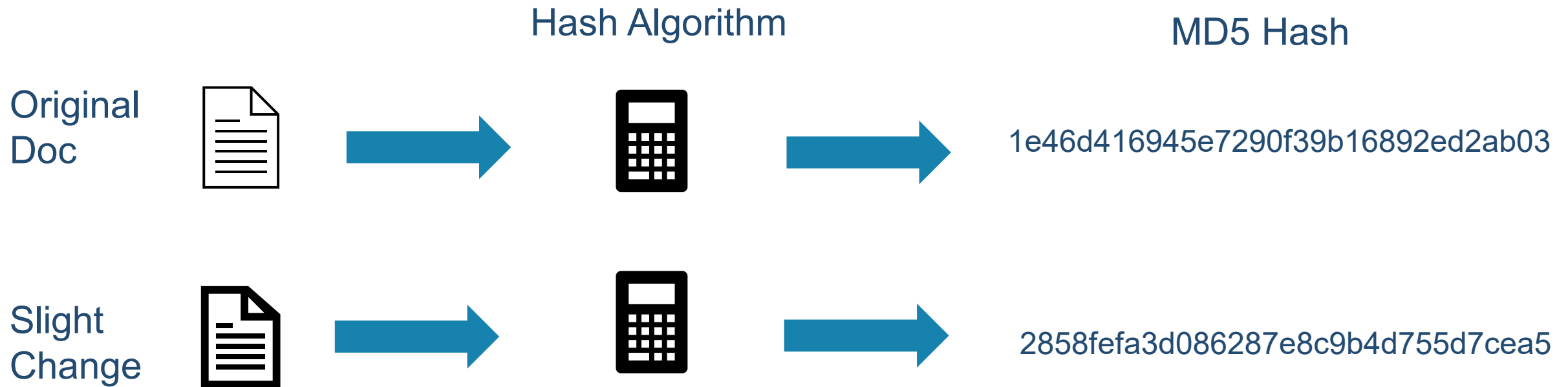
Guidance From The State Bar

8. Collect responsive ESI in a manner that preserves the integrity of that ESI

- Preserving the Integrity
 - Chain of Custody
 - Limiting Access to Data
 - Write Blocking / Working Copies
- Proving Preservation of Integrity
 - Hash value – output of cryptographic algorithm. Digital Fingerprint
 - Digital Forensic Containers

Hash Values

- “A hash value is a numeric value of a fixed length that uniquely identifies data. Hash values represent large amounts of data as much smaller numeric values, so they are used with digital signatures.” – Microsoft



Guidance From The State Bar

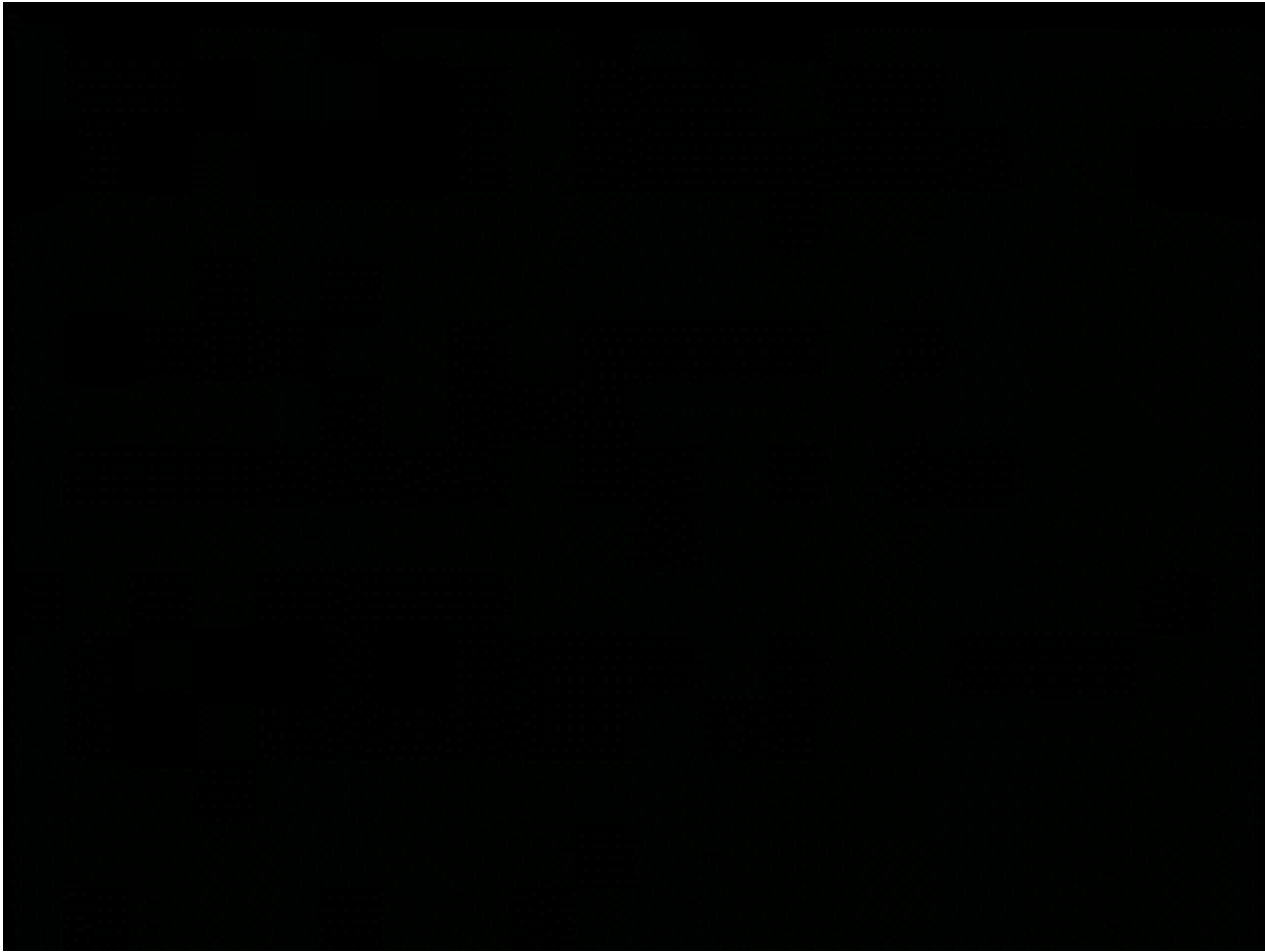
9. Produce responsive non-privileged ESI in a recognized and appropriate manner.

- Formal Opinion refers to attorney's ethical obligations relating to his own client's ESI, and does not address the scope of an attorney's duty of competence relating to obtaining an opposing party's ESI.
- Native Formats
- PDF Formats
- Common Metadata
 - Created/Modified/Accessed Dates, Location, Custodian, Checksum

THINGS TO CONSIDER



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Stored Communications Act

- Stored Communications Act – 18 USC 121, Sections 2701-2712
- Part of the 1986 Electronic Communications Privacy Act
- Prohibits a subpoena alone to obtain data
- Allows for disclosure when:
 - To the intended recipients or agent of intended recipient
 - With lawful consent of the communications originator, addressee, or intended recipient (Signed authorization from account holder)
 - Third party's employer or authorized to forward the communication to its destination
 - Disclosure to law enforcement/Court Order (Warrant)

Ethical Duties & ESI

Things to Consider

▪ Request for Preservation

- The standard of competence changes with technology.
 - New forms of ESI emerge frequently
- E-discovery expertise helps protect client confidentiality and privilege.
 - Reduce chance of overproduction and privilege breach
- Opposing counsel may not know what they should be preserving – best to describe locations where data may be kept.
- Opposing counsel may not know that they may need an eDiscovery or Digital Forensics expert to properly preserve their evidence.

Ethical Duties & ESI

Things to Consider

■ Discovery Process

- What can I expect to receive in terms of ESI?
 - You get what you ask for - maybe
- How should I ask for the ESI?
 - Native Documents – with Metadata! – Maybe a load file
- How should the data integrity be preserved?
 - Forensic containers with all metadata

Ethical Duties & ESI

Things to Consider

■ Discovery Process

- How is data stored?
 - some data may require an expert to retrieve it
- How do I ask for information that may require an ESI expert to retrieve?
 - Describe the sources and data types
 - Request Forensically Sound productions
- How do I effectively limit or cull through information captured or received?
 - Information Governance / Retention Policy
 - Date Range
 - Good keywords

We'd love to hear from you!

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