

MODERN EVIDENCE

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CHAPTER 9

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Director/Officer & President, Texas Academy of Family Law Specialists, 2003 to Present
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Member, Tarrant County Young Lawyers Association, 1996 to 2002
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Senior Counsel, American College of Barristers, 2001 to Present
Member and/or Chairperson, Fee Arbitration Committee, Tarrant County Bar Association, 2001 to 2005
Member, State Bar of Texas, Family Law Section Checklist Committee, 2002-2003, Amicus Committee, 2004-2008, Parenting Plan Committee 2005-2006, Membership Committee 2005-2009, Legislative Committee 2010-2011, Awards and Scholarships Committee 2010-2011, Budget & Finance Committee 2010-2011, Publications Committee 2010-2011, Section History Committee 2010-2011, Mentoring Committee 2010-2011
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Awards/Recognition

Friend of the Inn for outstanding contributions to Eldon B. Mahon Inn of Court, 2002
President's Certification of Outstanding Achievement from Tarrant Co. Bar Assoc., 2003
Texas Super Lawyer, Texas Monthly Magazine 2003 to Present
Who's Who in Executives and Professionals 2003
Top Attorneys featured in *Fort Worth, Texas Magazine* 2003 to Present
Top Fifty Female Attorneys in Texas, Texas Monthly Magazine 2004 to 2009
Top Fifty Female Super Lawyers, Texas Monthly Magazine 2006 to Present
Top 100 Lawyers in Dallas Fort Worth, Texas Monthly Magazine 2006 to Present
The Best Lawyers In America 2007 to present
Top Women Lawyers, D Magazine, 2010

Law Related Seminar Publications & Participation

Author, *An Attorney Ad Litem Is Really A Lawyer*, Attorney Ad Litem Training Seminar 1997.
Author, *Trial Preparation & Planning*, "Nuts & Bolts" Protective Order Seminar 1997.
Author, *Challenging Characterization Issues: Characterizing Trusts, Employee Stock Options, Workman's Compensation Claims, And Intellectual Property*, Advanced Family Law Course 1997.
Author, *Some Changes In The Texas Family Code*, Blackstone Seminar 1998.
Author/Speaker, *Uncontested Divorce Outline*, Pro Bono Family Law Seminar 1998.

Author, *Factors Affecting Property Division & Alimony*, Family Law Basics From the Bench, Tarrant County Bar Association Brown Bag Seminar 1998.

Speaker, *Practice Tips On Procedures At The Courthouse and Communicating With Court Personnel*, Advanced Family Law Trial Skills Seminar 1998.

Author, *The Potential Effect of The New Texas Family Law Legislation Regarding Proportional Ownership, Equitable Interests, Division Under Special Circumstances, & A Look At New Legislative Provisions For Transmutation Agreements*, Advanced Family Law Course 1999.

Speaker, *Recent Cases in Child Support, Possession & Access*, 1999 Annual TADRO Conference 1999.

Speaker, *Filing Pleadings, Obtaining Settings, and Interacting With Court Coordinators and Clerks*, Family Law Trial Skills Seminar, West Texas Legal Services PAI Program, 1999.

Author, *Discovery In Property Cases Under The New Rules*, Advanced Family Law Course 1999.

Author/Speaker, *Drafting Family Law Pleadings: It's Almost All In The Manual*, "Nuts & Bolts" Family Law & Advanced Trial Law Trial Skills 2000.

Author, *Deciding When You Need A Jury & Conducting Voir Dire*, "Nuts & Bolts" Family Law & Advanced Trial Law Trial Skills 2000.

Author/Speaker, *Proper Drafting and Filing of Pleadings*, 26th Annual Advanced Family Law Course, Boot Camp 2000.

Author, *Discovery Gotta Haves: Essential Ideas for Discovery in Property and SAPCR's*, Marriage Dissolution Institute 2001.

Author, *Discovery*, Advanced Family Law Trial Skills, West Texas Legal Services PAI Program 2001.

Author/Trainer, "Proper Drafting and Filing of Pleadings", "Nuts & Bolts" Family Law Seminar, West Texas Legal Services PAI Program 2001.

Trainer, "Why Lawyers Lie", "Nuts & Bolts" Family Law Seminar, West Texas Legal Services PAI Program 2001.

Presenter, *Winning Trial Techniques in Property Cases*, Texas Academy of Family Law Specialists Annual Trial Institute 2002.

Author/Trainer, "Proper Drafting and Filing of Pleadings", 2002 Family Law Seminar, West Texas Legal Services PAI Program.

Trainer, "Why Lawyers Lie", 2002 Family Law Seminar, West Texas Legal Services PAI Program.

Author/Speaker, *Discovery & Mediation*, 28th Annual Advanced Family Law Course, Family Law Boot Camp 2002.

Panel Member, *Use and Abuse of Legal Assistants*, 28th Annual Advanced Family Law Course 2002.

Speaker, *Use and Abuse of Legal Assistants*, Panhandle Family Law Bar Association November Luncheon, 2002.

Author/Speaker, *Drafting Trial Documents With An Eye Toward Winning*, Advanced Family Law Drafting Course 2002.

Author/Speaker, *Discovery: Tools, Techniques & Timebombs*, Texas Academy of Family Law Specialists Annual Trial Institute 2003.

Author/Player, *Associate Judge Do's & Don't's*, Tarrant County Family Law Bar Association 2003.

Author/Speaker, *Evaluating A Custody Case*, 26th Annual Marriage Dissolution Institute 2003.

Co-Director, Family Law Boot Camp, 29th Annual Advanced Family Law Seminar 2003.

Author, *Discovery in Hard Places*, 29th Annual Advanced Family Law Seminar 2003.

Speaker, *Practicing Law For Fun & Profit*, 29th Annual Advanced Family Law Seminar 2003.

Author/Speaker, *Internet Searches for Financial & Personal Information Useful in Family Law Litigation*, Texas Academy of Family Law Specialists Annual Trial Institute 2004.

Moderator, *Effective Courtroom Advocacy*, Tarrant County Bench Bar Seminar 2004

Author/Speaker, *Internet Investigation of Personal Information & Assets*, Marriage Dissolution Institute 2004.

Director, Family Law Boot Camp, State Bar of Texas Annual Meeting 2004.

Author/Speaker, *Drafting 101, Basic Drafting of Pleadings*, Family Law Boot Camp, State Bar of Texas Annual Meeting 2004.

Author/Speaker, *Investigation of Personal Information & Assets*, Tarrant County Family Law Bar Association, Summer Bar Seminar 2004.

Author/Speaker, *Investigation of Personal Information & Assets*, State Bar College "Summer School" 2004.

Author, *The Life of a Grievance & The New Disciplinary Rules, What You Don't Know Can Hurt You*, 30th Annual Advanced Family Law Seminar 2004.

Director, Family Law Boot Camp, 30th Annual Advanced Family Law Seminar 2004.

Author/Speaker, *Drafting 101, Basic Drafting of Pleadings*, Family Law Boot Camp, 30th Annual Advanced Family Law Seminar 2004.

Author/Speaker, *Investigation of Personal Information & Assets*, Legal Assistant's University 2004
Author, *Advanced CYA For The Family Law Attorney*, Family Law Ultimate Trial Notebook 2004
Author/Speaker, *Divorce Planning*, Representing Small Business 2004
Assistant Director, Texas Academy of Family Law Specialists Annual Trial Institute 2005
Instructor, *Marital Property*, The People's Law School, Fort Worth 2005
Author/Speaker, *Marital Property 101*, State Bar of Texas Spring Training, Fort Worth 2005
Author/Speaker, *Effective Use of Psychologists and Psychiatrists*, 28th Annual Marriage Dissolution Institute 2005.
Panelist/Moderator, Evidence and Discovery Workshop, 30th Annual Advanced Family Law Seminar, Dallas 2005
Author/Speaker, *Internet Investigation of Personal Information and Assets*, Tarrant County Bar Association September 2005 Luncheon.
Director, Texas Academy of Family Law Specialists Trial Institute 2006, Reno, Nevada
Author/Speaker, *Avoiding Divorce Disasters*, Representing Small Businesses, Dallas March 23-24, 2006
Panelist/Author, 29th Annual Marriage Dissolution Institute Bootcamp – Practical Aspects of Enhancing Your Practice, *How To Lose A Paralegal In 10 Days, or Keep One for 10 Years*, April 19, 2006, Austin.
Moderator, 29th Annual Marriage Dissolution Institute, *Electronic Evidence*, April 20-21, 2006, Austin.
Speaker, *Being A Family Law Attorney*, Tarrant County Bench-Bar, April 27, 2006, The Woodlands.
Speaker, *Ethics: Evidence, Discovery and Witnesses*, Tarrant County Bar Association Brown Bag Luncheon, June 23, 2006, Fort Worth.
Author/Speaker, *21st Century Issues Dealing with Nontraditional Relationships*, 31st Annual Advanced Family Law Seminar, August 14-17, 2006, San Antonio.
Speaker, UTCLE Parenting Plan Conference, *Effective Strategies For Reaching Parenting Plan Agreements*, October 13, 2006.
Speaker, LexisNexis CLE, Learning to Make the Texas Family Code Work for You, *Navigating the Family Code*, October 20, 2006.
Speaker, LexisNexis CLE, Learning to Make the Texas Family Code Work for You, *Helpful Appellate References*, October 20, 2006.
Moderator, Texas Academy of Family Law Specialists Trial Institute 2007, Sante Fe, New Mexico, Electronic Evidence Panel.
Moderator, 30th Annual Marriage Dissolution Institute, *Electronic Evidence*, May 10-11, 2007, El Paso.
Co-Speaker, *Interesting Appellate Cases*, Tarrant County Family Law Bar Luncheon, May 22, 2007.
Speaker/Author, UTCLE Family Law on the Front Lines, *Appellate Tips for Family Law Attorneys*, Galveston, Texas June 28-29, 2007.
Speaker/Author, *Evidence, Keeping in In and Keeping it Out*, 32nd Annual Advanced Family Law Seminar, San Antonio.
Speaker, *Appellate Considerations*, Texas Academy of Family Law Specialists Trial Institute 2008, Sante Fe, New Mexico.
Speaker, UTCLE 8th Annual Family Law on the Front Lines, *Justice Behind Closed Doors: Protecting the Record, Your Client and Yourself In Chambers*, Galveston, Texas June 19-20, 2008.
Speaker/Author, SBOT Advanced Family Law Drafting, *Discovery*, Austin, Texas, December 3-4, 2008.
Speaker/Author, UTCLE Parent-Child Relationships: *Critical Thinking for Critical Issues, Discovery and Evidence, A Primer for Family Law Attorneys*, Austin, Texas, January 29-30, 2009.
Speaker/Author, SBOT Representing Small Business, *Protecting Business Before Divorce: What Every Business Lawyer Must Know About Family Law*, Dallas, Texas, March 26-27, 2009.
Speaker, UTCLE, 9th Annual Family Law on the Front Lines, *Electronic Evidence and Discovery*, San Antonio, June 18-19, 2009.
Director, 35th Annual Advanced Family Law Seminar, Dallas, Texas, August 3-7, 2009.
Speaker/Author, SBOT The Ultimate Trial Notebook: Family Law, *Effective Use of Prior Testimony*, San Antonio, December 3-4, 2009.
Speaker/Author, UTCLE 2010 Parent-Child Relationships: Critical Thinking for Critical Issues, *Discovery and Evidentiary Issues in Substance Abuse Scenarios*, Austin, Texas January 28-29, 2010.
Speaker/Author, SBOT Essentials of Business Law, *Business Succession Planning: Protecting Business In Divorce*, Dallas, Texas, April 29-30, 2010.
Presiding Officer, UTCLE 10th Annual Family Law on the Front Lines, San Antonio, Texas, July 1-2, 2010.
Speaker/Author, 36th Annual Advanced Family Law Seminar, *Evidence: In or Out?* San Antonio, August 9-12, 2010.

Speaker/Panelist, New Frontiers in Marital Property Law, *Fiduciary Litigation and Other Financial Causes of Action*, Scottsdale, AZ, October 28-29.

Speaker/Panelist, American Bar Association Family Law Section Fall Meeting, *Tech Torts and Related Difficult Evidentiary Issues*, October 23, 2010, Fort Worth.

Speaker/Panelist, NBI Handling Divorce Cases from Start to Finish, *Exploring Custody, Visitation and Support Issues*, and *Ethical Perils In Divorce Practice*, November 7, 2010, Fort Worth.

Speaker, Tarrant County Court Coordinator's CLE, *Electronic Evidence and Social Networking*, February 23, 2011, Fort Worth.

Law Related Periodical/Magazine Publications

Author, "Beating Out The Big Firms", *Texas Lawyer*, Vol. 18, No. 21, July 29, 2002.

Interviewed/Quoted "Divorce 101", *Fort Worth Magazine*, July 2003 edition.

Author, "Basic Internet Searches for Persons and Assets", *The College Bulletin, News for Members of the College of the State Bar of Texas*, Summer 2006

Law Related Books

Co-Author, *Texas Family Law: Direct & Cross Examination, Suggested Questions, Ideas & Outlines*, Heather King, Bruce Beverly & Syd Beckman (Imprimatur Press 2000).

Co-Author, *Texas Family Law: Direct & Cross Examination, Suggested Questions, Ideas & Outlines, A Focus on Children*, Heather King, Bruce Beverly & Syd Beckman (Imprimatur Press 2002).

Co-Author, *Texas Family Law: Direct & Cross Examination, Suggested Questions, Ideas & Outlines, A Focus on Property*, Heather King, Bruce Beverly, Syd Beckman & Randal Wilhite (Imprimatur Press 2004).

Co-Annotator for *Lexis Texas Annotated Family Code 2007-Present*.

Co-Author, *Protecting Your Assets From A Texas Divorce 2nd Ed.* (PSG Books 2009).

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MODERN EVIDENCE

I. SCOPE OF ARTICLE.

Increasingly, family lawyers are on the front lines of using modern, electronic evidence. The latest study conducted by the American Academy of Matrimonial Lawyers found that more than 80 percent of divorce attorneys say they have seen an increase in the number of cases using social networking evidence during the past five years. This paper endeavors to provide a practical guide to using and admitting modern evidence.

II. ELECTRONIC EVIDENCE UNDER EXISTING RULES.

While electronic evidence and online communications feel like a new and unique area in evidence, they are evaluated under the same familiar rules attorneys have always used. State and federal courts have rejected calls to abandon the existing rules of evidence when evaluating electronic evidence. For example, a Pennsylvania court addressed the authentication required to introduce transcripts of instant message conversations:

Essentially, appellant would have us create a whole new body of law just to deal with e-mails or instant messages. The argument is that e-mails or text messages are inherently unreliable because of their relative anonymity and the fact that while an electronic message can be traced to a particular computer, it can rarely be connected to a specific author with any certainty. Unless the purported author is actually witnessed sending the e-mail, there is always the possibility it is not from whom it claims. As appellant correctly points out, anybody with the right password can gain access to another's e-mail account and send a message ostensibly from that person. However, the same uncertainties exist with traditional written documents. A signature can be forged; a letter can be typed on another's typewriter; distinct letterhead stationary can be copied or stolen. We believe that e-mail messages and similar forms of electronic communication can be properly authenticated within the existing framework of [the rules of evidence and case law]...We see no justification for constructing unique rules of admissibility of electronic communications such as instant messages; they are to be evaluated on a case-by-case basis as any other document to determine whether or not there has been an

adequate foundational showing of their relevance and authenticity.¹

While attorneys are right to be skeptical of electronic evidence, attorneys can forget that the same concerns are present with any type of evidence.

III. AUTHENTICATION & IDENTIFICATION.

The requirement of authentication or identification is a condition precedent to admissibility. This requirement is satisfied by evidence sufficient to support a finding that the matter in question is what its proponent claims.² Unless the evidence sought to be admitted is self-authenticating under Tex. R. Evid. 902, extrinsic evidence must be adduced prior to its admission. Rule 901(b) contains a non-exclusive list of illustrations of authentication that comply with the rule. A frequently-cited federal case, *Lorraine v. Markel Am. Insur. Co.*, has become an authority on the application of the rules of evidence to electronically-stored information (ESI).³ This section quotes extensively from the case, including selections relevant to authenticating ESI:

A. Electronically Stored Information (ESI).

A party seeking to admit an exhibit need only make a prima facie showing that it is what he or she claims it to be. This is not a particularly high barrier to overcome. For example, in *United States v. Safavian*, the court analyzed the admissibility of e-mail, noting, the question for the court under Rule 901 is whether the proponent of the evidence has offered a foundation from which the jury could reasonably find that the evidence is what the proponent says it is. The Court need not find that the evidence is necessarily what the proponent claims, but only that there is sufficient evidence that the jury ultimately might do so.

The authentication requirements of Rule 901 are designed to set up a threshold preliminary standard to test the reliability of evidence, subject to later review by an opponent's cross-examination. Determining what degree of foundation is appropriate in any given case is in the judgment of the court. The required foundation will vary not only with the particular circumstances but also with the individual judge. Obviously, there is no "one size fits all" approach that can be taken when authenticating electronic evidence, in part because technology changes so rapidly that it is often new to many judges.

¹ *In Re F.P.*, 878 A.2d 91, 95-96 (Pa. Super. Ct. 2005).

² Tex. R. Evid. 901.

³ *Lorraine v. Markel American Ins. Co.*, 241 F.R.D. 534 (D.Md. 2007) (memo. op.).

B. Stored versus Processed Data

In general, electronic documents or records that are merely *stored* in a computer raise no computer-specific authentication issues.⁴ If a computer *processes* data rather than merely storing it, authentication issues may arise. The need for authentication and an explanation of the computer's processing will depend on the complexity and novelty of the computer processing. There are many stages in the development of computer data where error can be introduced, which can adversely affect the accuracy and reliability of the output. Inaccurate results occur most often because of bad or incomplete data inputting, but can also happen when defective software programs are used or stored-data media become corrupted or damaged.

C. Email

There are many ways in which e-mail evidence may be authenticated.⁵ One well respected commentator has observed:

“[E]-mail messages may be authenticated by direct or circumstantial evidence. An e-mail message's distinctive characteristics, including its 'contents, substance, internal patterns, or other distinctive characteristics, taken in conjunction with circumstances' may be sufficient for authentication. Printouts of e-mail messages ordinarily bear the sender's e-mail address, providing circumstantial evidence that the message was transmitted by the person identified in the e-mail address. In responding to an email message, the person receiving the message may transmit the reply using the computer's reply function, which automatically routes the message to the address from which the original message came. Use of the reply function indicates that the reply message was sent to the sender's listed e-mail address. The contents of the e-mail may help show authentication by revealing details known only to the sender and the person receiving the message. However, the sending address in an e-mail message is not conclusive, since e-mail messages can be sent by persons other than the named sender. For example, a person with unauthorized access to a computer can transmit e-mail messages under the computer owner's name. Because of the potential for unauthorized transmission of e-mail messages, authentication requires testimony from a person with personal

knowledge of the transmission or receipt to ensure its trustworthiness.”

Courts also have approved the authentication of e-mail by the above described methods. *See, e.g.:*

Siddiqui, 235 F.3d at 1322–23 (E-mail may be authenticated entirely by circumstantial evidence, including its distinctive characteristics);

Safavian, 435 F.Supp.2d at 40 (recognizing that e-mail may be authenticated by distinctive characteristics 901(b)(4), or by comparison of exemplars with other e-mails that already have been authenticated 901(b)(3));

Rambus, 348 F.Supp.2d 698 (Email that qualifies as business record may be self-authenticating under 902(11));

In re F.P., 878 A.2d at 94 (E-mail may be authenticated by direct or circumstantial evidence).

The most frequent ways to authenticate email evidence are:

901(b)(1)	(person with personal knowledge),
901(b)(3)	(expert testimony or comparison with authenticated exemplar),
901(b)(4)	(distinctive characteristics, including circumstantial evidence),
902(7)	(trade inscriptions), and
902(11)	(certified copies of business record).

Texas Note: An email can be authenticated by testimony that the witness was familiar with the sender's e-mail address and that she had received the e-mails in question from him.⁶ Another court enumerated several characteristics to consider when determining whether an e-mail has been properly authenticated, including:

- (1) consistency with the e-mail address on another e-mail sent by the defendant;
- (2) the author's awareness through the e-mail of the details of defendant's conduct;
- (3) the e-mail's inclusion of similar requests that the defendant had made by phone during the time period; and

⁴ *Lorraine*, 241 F.R.D. at 543 (emph. added).

⁵ *Lorraine*, 241 F.R.D. at 554-55.

⁶ *Shea v. State*, 167 S.W.3d 98, 105 (Tex.App.—Waco 2005, pet. ref'd).

- (4) the e-mail's reference to the author by the defendant's nickname.⁷

Texas Note: One Texas case has held that the reply-letter doctrine for authenticating letters applies to email.⁸ Under this doctrine, a letter received in the due course of mail purportedly in answer to another letter is prima facie genuine and admissible without further proof of authenticity. A reply letter needs no further authentication because it is unlikely that anyone other than the purported writer would know of and respond to the contents of the earlier letter addressed to him. However, in that case, there was also another valid basis for authenticating the emails.

D. Internet Website Postings.

When determining the admissibility of exhibits containing representations of the contents of website postings of a party, the issues that have concerned courts include the possibility that third persons other than the sponsor of the website were responsible for the content of the postings, leading many to require proof by the proponent that the organization hosting the website actually posted the statements or authorized their posting.⁹ *See:*

United States v. Jackson, 208 F.3d 633, 638 (7th Cir.2000) (excluding evidence of website postings because proponent failed to show that sponsoring organization actually posted the statements, as opposed to a third party);

St. Luke's, 2006 WL 1320242 (plaintiff failed to authenticate exhibits of defendant's website postings because affidavits used to authenticate the exhibits were factually inaccurate and the author lacked personal knowledge of the website);

Wady, 216 F.Supp.2d 1060.

One commentator has observed "[i]n applying [the authentication standard] to website evidence, there are three questions that must be answered explicitly or implicitly.

- (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?"

⁷ *Massimo v. State*, 144 S.W.3d 210, 215 (Tex.App.—Fort Worth 2004, no pet.).

⁸ *Varkonyi v. State*, 276 S.W.3d 27, 35 (Tex.App.—El Paso 2008, pet. ref'd).

⁹ *Lorraine*, 241 F.R.D. at 555-56.

The same author suggests that the following factors will influence courts in ruling whether to admit evidence of internet postings:

- the length of time the data was posted on the site;
- whether others report having seen it;
- whether it remains on the website for the court to verify;
- whether the data is of a type ordinarily posted on that website or websites of similar entities (e.g. financial information from corporations);
- whether the owner of the site has elsewhere published the same data, in whole or in part;
- whether others have published the same data, in whole or in part;
- whether the data has been republished by others who identify the source of the data as the website in question?"

Counsel attempting to authenticate exhibits containing information from internet websites need to address these concerns in deciding what method of authentication to use, and the facts to include in the foundation.

The authentication rules most likely to apply, singly or in combination, are:

- 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), and
- 902(5) (official publications).

Recent Texas Case: One case addressed an online personal ad, and found that it was not necessary for authentication to show that the person placed the ad, only that the exhibit was an authentic copy of the actual online ad.¹⁰ Whether the party placed the ad did not go to the authenticity of the exhibit, but rather to the underlying issues in the case.

Recent Texas Case: A court excluded, as unauthenticated, a writing and recording from a company's website. Counsel attested that the writing

¹⁰ *Musgrove v. State*, No. 03-09-00163-CR (Tex.App.—Austin 2009) (memo. op.).

and recording were true and correct copies obtained from the company website. The court held that the statements did not establish that the website was actually that of the company. Further, the affiant did not state that he recognized the voice on the recording and that the voice excerpts captured from the website were actually those of the speaker.

Recent Texas Case: A victim’s sister found MySpace accounts allegedly created by the accused by searching under his nickname. The pages contained photos of the accused and comments related to the crime. The witness admitted there was no way to verify the author of anything written on a MySpace page. On appeal this authentication was upheld, and the court stated: “The inherent nature of social networking websites encourages members who choose to use pseudonyms to identify themselves by posting profile pictures or descriptions of their physical appearances, personal backgrounds, and lifestyles. This type of individualization is significant in authenticating a particular profile page as having been created by the person depicted in it. The more particular and individualized the information, the greater the support for a reasonable juror’s finding that the person depicted supplied the information.”¹¹

Recent Texas Case: Mother objected to the admission of provocative photographs of her, allegedly posted to an adult website. On appeal, the court held that the objection had not been preserved because, although she objected at trial that the photos were not of her, she failed to object to their authentication as pictures that were posted on an adult website.¹²

E. Text Messages and Chat Room Content.

Many of the same foundational issues encountered when authenticating website evidence apply with equal force to text messages and internet chat room content; however, the fact that chat room messages are posted by third parties, often using “screen names” means that it cannot be assumed that the content found in chat rooms was posted with the knowledge or authority of the website host.¹³

One commentator has suggested that the following foundational requirements must be met to authenticate chat room evidence:

- (1) evidence that the individual used the screen name in question when participating in chat

room conversations (either generally or at the site in question);

- (2) evidence that, when a meeting with the person using the screen name was arranged, the individual showed up;
- (3) evidence that the person using the screen name identified himself as the person in the chat room conversation;
- (4) evidence that the individual had in his possession information given to the person using the screen name; or
- (5) evidence from the hard drive of the individual’s computer showing use of the same screen name.

Courts also have recognized that exhibits of chat room conversations may be authenticated circumstantially.

For example, in *In re F.P.*,¹⁴ the defendant argued that the testimony of the internet service provider was required, or that of a forensic expert. The court held that circumstantial evidence, such as the use of the defendant’s screen name in the text message, the use of the defendant’s first name, and the subject matter of the messages all could authenticate the transcripts.

Similarly, in *United States v. Simpson*,¹⁵ the court held that there was ample circumstantial evidence to authenticate printouts of the content of chat room discussions between the defendant and an undercover detective, including use of the e-mail name of the defendant, the presence of the defendant’s correct address in the messages, and notes seized at the defendant’s home containing the address, e-mail address and telephone number given by the undercover officer.

Likewise, in *United States v. Tank*,¹⁶ the court found sufficient circumstantial facts to authenticate chat room conversations, despite the fact that certain portions of the text of the messages in which the defendant had participated had been deleted. There, the court found the testimony regarding the limited nature of the deletions by the member of the chat room club who had made the deletions, circumstantial evidence connecting the defendant to the chat room, including the use of the defendant’s screen name in the messages, were sufficient to authenticate the messages.

Based on the foregoing cases, the rules most likely to be used to authenticate chat room and text messages, alone or in combination, appear to be:

- 901(b)(1) (witness with personal knowledge) and

¹¹ *Tienda v. State*, No. 05-09-00553-CR (Tex.App.—Dallas December 17, 2010) (unpub. op.).

¹² *In Re J.A.S.*, No. 11-09-00176-CV (Tex.App.—Eastland January 13, 2011) (memo. op.).

¹³ *Lorraine*, 241 F.R.D. at 556.

¹⁴ 878 A.2d at 93–94.

¹⁵ 152 F.3d at 1249.

¹⁶ 200 F.3d at 629–31.

901(b)(4) (circumstantial evidence of distinctive characteristics).

Recent Texas Case: While there is not yet much Texas law on the authentication of text messages, one court admitted them as party admissions, although the opinion does not address how they were authenticated.¹⁷

Recent Texas Case: A witness was permitted to testify about the contents of text messages the victim received from the accused and the emotional effect the texts had on the victim.¹⁸

F. Computer Stored Records and Data.

Given the widespread use of computers, there is an almost limitless variety of records that are stored in or generated by computers.¹⁹ As one commentator has observed “[m]any kinds of computer records and computer-generated information are introduced as real evidence or used as litigation aids at trials. They range from computer printouts of stored digital data to complex computer-generated models performing complicated computations. Each may raise different admissibility issues concerning authentication and other foundational requirements.”

The least complex admissibility issues are associated with electronically stored records. In general, electronic documents or records that are merely stored in a computer raise no computer-specific authentication issues. That said, although computer records are the easiest to authenticate, there is growing recognition that more care is required to authenticate these electronic records than traditional “hard copy” records. Two cases illustrate the contrast between the more lenient approach to admissibility of computer records and the more demanding one:

In *United States v. Meienberg*,²⁰ the defendant challenged on appeal the admission into evidence of printouts of computerized records of the Colorado Bureau of Investigation, arguing that they had not been authenticated because the government had failed to introduce any evidence to demonstrate the accuracy of the records. The Tenth Circuit disagreed, stating: “Any question as to the accuracy of the printouts, whether resulting from incorrect data entry or the operation of the computer program, as with inaccuracies in any

other type of business records, would have affected only the weight of the printouts, not their admissibility.” *See also*:

Kassimu, 2006 WL 1880335 (To authenticate computer records as business records did not require the maker, or even a custodian of the record, only a witness qualified to explain the record keeping system of the organization to confirm that the requirements of Rule 803(6) had been met, and the inability of a witness to attest to the accuracy of the information entered into the computer did not preclude admissibility);

Sea-Land Serv., Inc. v. Lozen Int’l, 285 F.3d 808 (9th Cir.2002) (ruling that trial court properly considered electronically generated bill of lading as an exhibit to a summary judgment motion. The only foundation that was required was that the record was produced from the same electronic information that was generated contemporaneously when the parties entered into their contact. The court did not require evidence that the records were reliable or accurate).

In contrast, in the case of *In re Vee Vinhnee*,²¹ the bankruptcy appellate panel upheld the trial ruling of a bankruptcy judge excluding electronic business records of the credit card issuer of a Chapter 7 debtor, for failing to authenticate them. The court noted that “it is becoming recognized that early versions of computer foundations were too cursory, even though the basic elements covered the ground.” The court further observed that: “The primary authenticity issue in the context of business records is on what has, or may have, happened to the record in the interval between when it was placed in the files and the time of trial. In other words, the record being proffered must be shown to continue to be an accurate representation of the record that originally was created. Hence, the focus is not on the circumstances of the creation of the record, but rather on the circumstances of the preservation of the record during the time it is in the file so as to assure that the document being proffered is the same as the document that originally was created.” The court reasoned that, for paperless electronic records: “The logical questions extend beyond the identification of the particular computer equipment and programs used. The entity’s policies and procedures for the use of the equipment, database, and programs are important. How access to the pertinent database is controlled and, separately, how access to the specific program is controlled are important questions. How changes in the database are logged or recorded, as well as the structure and implementation of backup systems and

¹⁷ *Lozano v. State*, No. 2-06-379-CR (Tex.App.—Fort Worth 2007) (memo. op.).

¹⁸ *Gardner v. State*, 306 S.W.3d 274 (Tex. Crim. App. 2009).

¹⁹ *Lorraine*, 241 F.R.D. at 556-59.

²⁰ 263 F.3d at 1180-81.

²¹ 336 B.R. 437.

audit procedures for assuring the continuing integrity of the database, are pertinent to the question of whether records have been changed since their creation.” In order to meet the heightened demands for authenticating electronic business records, the court adopted, with some modification, an eleven-step foundation proposed by Professor Edward Imwinkelried, viewing electronic records as a form of scientific evidence:

1. The business uses a computer.
2. The computer is reliable.
3. The business has developed a procedure for inserting data into the computer.
4. The procedure has built-in safeguards to ensure accuracy and identify errors.
5. The business keeps the computer in a good state of repair.
6. The witness had the computer readout certain data.
7. The witness used the proper procedures to obtain the readout.
8. The computer was in working order at the time the witness obtained the readout.
9. The witness recognizes the exhibit as the readout.
10. The witness explains how he or she recognizes the readout.
11. If the readout contains strange symbols or terms, the witness explains the meaning of the symbols or terms for the trier of fact.

Although the position taken by the court in *In re Vee Vinhnee* appears to be the most demanding requirement for authenticating computer stored records, other courts also have recognized a need to demonstrate the accuracy of these records. *See, e.g.:*

State v. Dunn, 7 S.W.3d 427, 432 (Mo.Ct.App.2000) (Admissibility of computer-generated records “should be determined on the basis of the reliability and accuracy of the process involved.”);

State v. Hall, 976 S.W.2d 121, 147 (Tenn. 1998) (“[T]he admissibility of the computer tracing system record should be measured by the reliability of the system, itself, relative to its proper functioning and accuracy.”).

As the foregoing cases illustrate, there is a wide disparity between the most lenient positions courts have taken in accepting electronic records as authentic and the most demanding requirements that have been imposed. Further, it would not be surprising to find that, to date, more courts have tended towards the lenient rather than the demanding approach. However,

it also is plain that commentators and courts increasingly recognize the special characteristics of electronically stored records, and there appears to be a growing awareness, as expressed in the Manual for Complex Litigation, that courts “should consider the accuracy and reliability of computerized evidence” in ruling on its admissibility. Lawyers can expect to encounter judges in both camps, and in the absence of controlling precedent in the court where an action is pending setting forth the foundational requirements for computer records, there is uncertainty about which approach will be required. Further, although “it may be better to be lucky than good,” as the saying goes, counsel would be wise not to test their luck unnecessarily. If it is critical to the success of your case to admit into evidence computer stored records, it would be prudent to plan to authenticate the record by the most rigorous standard that may be applied. If less is required, then luck was with you.

The methods of authentication most likely to be appropriate for computerized records are:

- | | |
|-----------|---|
| 901(b)(1) | (witness with personal knowledge), |
| 901(b)(3) | (expert testimony), |
| 901(b)(4) | (distinctive characteristics), and |
| 901(b)(9) | (system or process capable of producing a reliable result). |

G. Digital Photographs and Videos.

Photographs have been authenticated for decades under Rule 901(b)(1) by the testimony of a witness familiar with the scene depicted in the photograph who testifies that the photograph fairly and accurately represents the scene.²² Calling the photographer or offering expert testimony about how a camera works almost never has been required for traditional film photographs. Today, however, the vast majority of photographs taken, and offered as exhibits at trial, are digital photographs, which are not made from film, but rather from images captured by a digital camera and loaded into a computer. Digital photographs present unique authentication problems because they are a form of electronically produced evidence that may be manipulated and altered. Indeed, unlike photographs made from film, digital photographs may be “enhanced.” Digital image enhancement consists of removing, inserting, or highlighting an aspect of the photograph that the technician wants to change.

Some examples graphically illustrate the authentication issues associated with digital enhancement of photographs: Suppose that in a civil case, a shadow on a 35 mm photograph obscures the name of the manufacturer of an offending product. The plaintiff might offer an enhanced image, magically

²² *Lorraine*, 241 F.R.D. at 561-62.

stripping the shadow to reveal the defendant's name. Or suppose that a critical issue is the visibility of a highway hazard. A civil defendant might offer an enhanced image of the stretch of highway to persuade the jury that the plaintiff should have perceived the danger ahead before reaching it. In many criminal trials, the prosecutor offers an 'improved', digitally enhanced image of fingerprints discovered at the crime scene. The digital image reveals incriminating points of similarity that the jury otherwise would never would have seen.

There are three distinct types of digital photographs that should be considered with respect to authentication analysis: original digital images, digitally converted images, and digitally enhanced images.

1. Original Digital Photograph.

An original digital photograph may be authenticated the same way as a film photo, by a witness with personal knowledge of the scene depicted who can testify that the photo fairly and accurately depicts it. If a question is raised about the reliability of digital photography in general, the court likely could take judicial notice of it under Rule 201.

Further, even if no witness can testify from personal knowledge that the photo or video accurately depicts the scene, the "silent witness" analysis allows a photo or video to be authenticated by showing a process or system that produces an accurate result.²³ Testimony that showed how the tape was put in the camera, how the camera was activated, the removal of the tape immediately after the offense, the chain of custody, and how the film was developed was sufficient to support the trial court's decision to admit the evidence.²⁴ Photos taken by an ATM were properly authenticated on even less evidence--mere testimony of a bank employee familiar with the operation of the camera and the fact that the time and date were indicated on the evidence were sufficient to authenticate the photos.²⁵

Recent Texas Case: A court found the following testimony sufficient to authenticate a video: a witness, who was not present at the time of the incident, described the store's multiplex recording system and its computer systems; he detailed how he was able to link the encoding on the receipts to the time and date that the account was opened, to the transactions in question, to the cashier, to the terminal, and finally to the video

²³ See Tex.R. Evid. 901(b)(9).

²⁴ *Reavis v. State*, 84 S.W.3d 716, 719-20 (Tex.App.-Fort Worth 2002, no pet.).

²⁵ *Reavis v. State*, 84 S.W.3d 716, 719-20 (Tex.App.-Fort Worth 2002, no pet.).

camera that recorded the transactions; and he testified that he had personally copied the relevant recordings from the multiplex to the videotape. He further testified that he had viewed the video on the multiplex system, viewed it on the tape on the day that he made the tape, and then viewed it again on the day prior to his testimony and that it fairly and accurately represented what it purported to show. The witness testified that no alterations or deletions were made to the videotape.²⁶

2. Digitally Converted Images.

For digitally converted images, authentication requires an explanation of the process by which a film photograph was converted to digital format. This would require testimony about the process used to do the conversion, requiring a witness with personal knowledge that the conversion process produces accurate and reliable images, Rules 901(b)(1) and 901(b)(9)-the latter rule implicating expert testimony under Rule 702. Alternatively, if there is a witness familiar with the scene depicted who can testify to the photo produced from the film when it was digitally converted, no testimony would be needed regarding the process of digital conversion.

3. Digitally Enhanced Images.

For digitally enhanced images, it is unlikely that there will be a witness who can testify how the original scene looked if, for example, a shadow was removed, or the colors were intensified. In such a case, there will need to be proof, permissible under Rule 901(b)(9), that the digital enhancement process produces reliable and accurate results, which gets into the realm of scientific or technical evidence under Rule 702. Recently, one state court has given particular scrutiny to how this should be done.

In *State v. Swinton*,²⁷ the defendant was convicted of murder in part based on evidence of computer enhanced images prepared using the Adobe Photoshop software. The images showed a superimposition of the defendant's teeth over digital photographs of bite marks taken from the victim's body. At trial, the state called the forensic odontologist (bite mark expert) to testify that the defendant was the source of the bite marks on the victim. However, the defendant testified that he was not familiar with how the Adobe Photoshop made the overlay photographs, which involved a multi-step process in which a wax mold of the defendant's teeth was digitally photographed and scanned into the computer to then be superimposed on the photo of the victim. The trial court admitted the exhibits over objection, but the state appellate court

²⁶ *Thierry v. State*, 288 S.W.3d 80 (Tex.App.--Houston [1st Dist.] 2009, pet. ref'd).

²⁷ 268 Conn. 781, 847 A.2d 921, 950-52 (2004).

reversed, finding that the defendant had not been afforded a chance to challenge the scientific or technical process by which the exhibits had been prepared. The court stated that to authenticate the exhibits would require a sponsoring witness who could testify, adequately and truthfully, as to exactly what the jury was looking at, and the defendant had a right to cross-examine the witness concerning the evidence. Because the witness called by the state to authenticate the exhibits lacked the computer expertise to do so, the defendant was deprived of the right to cross examine him.

Because the process of computer enhancement involves a scientific or technical process, one commentator has suggested the following foundation as a means to authenticate digitally enhanced photographs under Rule 901(b)(9):

- (1) The witness is an expert in digital photography;
- (2) the witness testifies as to image enhancement technology, including the creation of the digital image consisting of pixels and the process by which the computer manipulates them;
- (3) the witness testifies that the processes used are valid;
- (4) the witness testifies that there has been adequate research into the specific application of image enhancement technology involved in the case;
- (5) the witness testifies that the software used was developed from the research;
- (6) the witness received a film photograph;
- (7) the witness digitized the film photograph using the proper procedure, then used the proper procedure to enhance the film photograph in the computer;
- (8) the witness can identify the trial exhibit as the product of the enhancement process he or she performed.

The author recognized that this is an extensive foundation, and whether it will be adopted by courts in the future remains to be seen. However, it is probable that courts will require authentication of digitally-enhanced photographs by adequate testimony that a photograph is the product of a system or process that produces accurate and reliable results under Rule 901(b)(9).

H. Voicemail.

Rule 901(b)(5) provides that a voice recording may be identified by opinion based upon hearing the voice at anytime under circumstances connecting it with the alleged speaker. One Texas court has found that a voicemail was not properly authenticated when a

witness testified that she recognized the voice as a party's but did not identify the recording or explain the circumstances in which it was made.²⁸

I. Conclusion on Authenticating ESI.

To prepare properly to address authentication issues associated with electronically generated or stored evidence, a lawyer must identify each category of electronic evidence to be introduced.²⁹ Then, he or she should determine what courts have required to authenticate this type of evidence, and carefully evaluate the methods of authentication identified in Rules 901 and 902, as well as consider requesting a stipulation from opposing counsel, or filing a request for admission of the genuineness of the evidence. With this analysis in mind, the lawyer then can plan which method or methods of authentication will be most effective, and prepare the necessary formulation, whether through testimony, affidavit, admission or stipulation. The proffering attorney needs to be specific in presenting the authenticating facts and, if authenticity is challenged, should cite authority to support the method selected.

An attorney could also ask authenticating questions about ESI during a deposition. An attorney could have the deponent log into various sites during the deposition and testify to the contents. In theory, this would be no different than having a deponent produce a diary and go through it.

IV. BEST EVIDENCE RULE.

The Best Evidence Rule states that, to prove the content of a writing, recording, or photograph, the *original* writing, recording, or photograph is required except as otherwise provided.³⁰ The purpose of the best evidence rule is to produce the best obtainable evidence, and if a document cannot as a practical matter be produced because of its loss or destruction, then the production of the original is excused.³¹

Under Tex. R. Evid. 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. An Indiana court, for example, found that internet chat room communications that a party cut and pasted into a word processing document were still originals.³² In the

²⁸ *Miller v. State*, 208 S.W.3d 554, 566 (Tex.App.—Austin 2006, pet. ref'd).

²⁹ *Lorraine*, 241 F.R.D. at 562.

³⁰ Tex. R. Evid. 1002 (emph. added).

³¹ *Jurek v. Couch-Jurek*, 296 S.W.3d 864, 871 (Tex.App.—El Paso 2009, no pet.).

³² *Laughner v. State*, 769 N.E.2d 1147, 1159 (Ind. Ct. App. 2002).

predicate for introducing a computer printout, asking whether the exhibit reflects the data accurately may help to overcome an objection under the Best Evidence Rule.

V. HEARSAY ISSUES IN ELECTRONIC EVIDENCE.

Hearsay is a statement, other than one made by the declarant while testifying at the trial or hearing, offered in evidence to prove the truth of the matter asserted.³³ (See “Non-Assertive Statement,” below, for a discussion of whether testimony is even a “statement” at all.) The “matter asserted” includes any matter explicitly asserted, and any matter implied by a statement, if the probative value of the statement as offered flows from declarant’s belief as to the matter.³⁴ Hearsay is inadmissible unless otherwise permitted by the rules or by statute.³⁵

Put more simply, any out-of-court statement, whether by the witness or another person, is hearsay and is inadmissible to support the truth of a claim, unless permitted by another rule. However, otherwise inadmissible hearsay admitted without objection should not be denied probative value merely because it is hearsay.³⁶ If it can be shown that a statement is non-hearsay or that it falls within a hearsay exception, the statement can be admissible as probative evidence.³⁷

The twenty-four hearsay exceptions listed in Texas Rule 803 may be roughly categorized into three categories: unreflective statements, reliable documents, and reputation evidence. The rationale for all of the exceptions is that, over time, experience has shown that these types of statements are generally reliable and trustworthy.³⁸ However, all hearsay exceptions require a showing of trustworthiness.³⁹

A. Unreflective Statements.

Evidence obtained from email, text messaging, or social networking sites, such as Facebook, MySpace, or Twitter, is often relevant in family law cases. The evidence may be non-hearsay to the extent that it is an admission by a party-opponent, but there may be times where statements by others are relevant. Of the hearsay

exceptions, 803(1)-(3) can be especially useful in admitting these types of evidence. Those are the exceptions for present sense impression, excited utterance, and then-existing condition. Electronic communication is particularly prone to candid statements of the declarant’s state of mind, feelings, emotions, and motives.⁴⁰ Further, such messages are often sent while events are unfolding. The logic of the existing exceptions can be applied to admit even new forms of communication.

1. Present Sense Impression.

A statement describing or explaining an event made *while* the declarant was perceiving the event or *immediately* thereafter.⁴¹ Unlike the excited-utterance exception, the rationale for this exception stems from the statement’s contemporaneity, not its spontaneity.⁴² The present sense impression exception to the hearsay rule is based upon the premise that the contemporaneity of the event and the declaration ensures reliability of the statement. The rationale underlying the present sense impression is that: (1) the statement is safe from any error of the defect of memory of the declarant because of its contemporaneous nature, (2) there is little or no time for a calculated misstatement, and (3) the statement will usually be made to another (the witness who reports it) who would have an equal opportunity to observe and therefore check a misstatement.⁴³ The *Fischer*⁴⁴ case states the following: The rule is predicated on the notion that the utterance is a reflex product of immediate sensual impressions, unaided by retrospective mental processes. It is instinctive, rather than deliberate. If the declarant has had time to reflect upon the event and the conditions he observed, this lack of contemporaneity diminishes the reliability of the statements and renders them inadmissible under the rule. Once reflective narratives, calculated statements, deliberate opinions, conclusions, or conscious thinking-it-through statements enter the picture, the present sense impression exception no longer allows their admission. Thinking about it destroys the unreflective nature required of a present sense impression.

³³ Tex. R. Evid. 801(d).

³⁴ Tex. R. Evid. 801(c).

³⁵ Tex. R. Evid. 802; *see* Tex. R. Evid. 801(e), 803, 804.

³⁶ Tex. R. Evid. 802.

³⁷ *See, Miranda v. State*, 813 S.W.2d 724, 735 (Tex.App.—San Antonio 1991, pet ref’d).

³⁸ *Fischer v. State*, 252 S.W.3d 375, 379 (Tex.Crim.App. 2008).

³⁹ *Robinson v. Harkins & Co.*, 711 S.W.2d 619, 621 (Tex.1986).

⁴⁰ *Lorraine v. Markel American Ins. Co.*, 241 F.R.D. 534, 570 (D.Md. 2007) (memo. op.).

⁴¹ Tex. R. Evid. 803(1) (emph. added).

⁴² *Rabbani v. State*, 847 S.W.2d 555, 560 (Tex.Crim.App. 1992).

⁴³ *Id.*

⁴⁴ *Fischer v. State*, 252 S.W.3d 375, 381 (Tex.Crim.App. 2008).

2. Excited Utterance.

A statement relating to a startling event or condition made while the declarant was under stress or excitement caused by event or condition.⁴⁵ The excited-utterance exception is broader than the present-sense-impression exception.⁴⁶ While a present-sense-impression statement must be made while the declarant was perceiving the event or condition, or immediately thereafter, under the excited-utterance exception, the startling event may trigger a spontaneous statement that relates to a much earlier incident.⁴⁷ The *Goodman*⁴⁸ case states the following: For the excited-utterance exception to apply, three conditions must be met: (1) the statement must be a product of a startling occurrence that produces a state of nervous excitement in the declarant and renders the utterance spontaneous and unreflecting, (2) the state of excitement must still so dominate the declarant's mind that there is no time or opportunity to contrive or misrepresent, and (3) the statement must relate to the circumstances of the occurrence preceding it. The critical factor in determining when a statement is an excited utterance under Rule 803(2) is whether the declarant was still dominated by the emotions, excitement, fear, or pain of the event. The time elapsed between the occurrence of the event and the utterance is only one factor considered in determining the admissibility of the hearsay statement.

3. Then Existing Mental, Emotional, or Physical Condition.

A statement of the declarant's then existing state of mind, emotion, sensation, or physical condition (such as intent, plan, motive, design, mental feeling, pain, or bodily health), but not including a statement of memory or belief to prove the fact remembered or believed unless it relates to the execution, revocation, identification, or terms of declarant's will.⁴⁹ Texas courts have held that the type of statement contemplated by this rule includes a statement that on its face expresses or exemplifies the declarant's state of mind—such as fear, hate, love, and pain.⁵⁰ For example, a person's statement regarding her emotional response to a particular person qualifies as a statement

of then-existing state of emotion under Rule 803(3).⁵¹ However, a statement is inadmissible if it is a statement of memory or belief offered to prove the fact remembered or believed.⁵² One federal court offers the following explanation of Rule 803(3)'s "exception to the exception": Case law makes it clear that a witness may testify to a declarant saying "I am scared," but not "I am scared because the defendant threatened me." The first statement indicates an actual state of mind or condition, while the second statement expresses belief about why the declarant is frightened. The phrase "because the defendant threatened me" is expressly outside the state-of-mind exception because the explanation for the fear expresses a belief different from the state of mind of being afraid.⁵³

B. Reliable Documents.

The second category of hearsay exceptions, reliable documents, can also include a variety of computer- or internet-stored data. Anything from online flight schedules, to personal financial records, to emails could potentially be admitted under these existing hearsay exceptions.

1. Recorded Recollection.

A memorandum or record concerning a matter about which a witness once had personal knowledge but now has insufficient recollection to enable the witness to testify fully and accurately, shown to have been made or adopted by the witness when the matter was fresh in the witness' memory and to reflect that knowledge correctly, unless the circumstances of preparation cast doubt on the document's trustworthiness. If admitted, the memorandum or record may be read into evidence but may not itself be received as an exhibit unless offered by an adverse party.⁵⁴ For a statement to be admissible under Rule 803(5): (1) the witness must have had firsthand knowledge of the event, (2) the statement must be an original memorandum made at or near the time of the event while the witness had a clear and accurate memory of it, (3) the witness must lack a present recollection of the event, and (4) the witness must vouch for the accuracy of the written memorandum.⁵⁵ To meet the fourth element, the witness may testify that she presently remembers recording the fact

⁴⁵ Tex. R. Evid. 803(2).

⁴⁶ *McCarty v. State*, 257 S.W.3d 238, 240 (Tex.Crim.App. 2008).

⁴⁷ *Id.*

⁴⁸ *Goodman v. State*, 302 S.W.3d 462, 472 (Tex.App.—Texarkana 2009, pet. ref'd).

⁴⁹ Tex. R. Evid. 803(3).

⁵⁰ *Garcia v. State*, 246 S.W.3d 121, 132 (Tex.App.—San Antonio 2007, pet. ref'd).

⁵¹ *Id.*

⁵² Tex. R. Evid. 803(3).

⁵³ *Delapaz v. State*, 228 S.W.3d 183, 207 (Tex.App.—Dallas 2007, pet. ref'd) (citing *United States v. Ledford*, 443 F.3d 702, 709 (10th Cir. 2005)).

⁵⁴ Tex. R. Evid. 803(5).

⁵⁵ *Johnson v. State*, 967 S.W.2d 410, 416 (Tex.Crim.App. 1998).

correctly or remembers recognizing the writing as accurate when she read it at an earlier time. But if her present memory is less effective, it is sufficient if the witness testifies that she knows the memorandum is correct because of a habit or practice to record matters accurately or to check them for accuracy. At the extreme, it is even sufficient if the individual testifies to recognizing her signature on the statement and believes the statement is correct because she would not have signed it if she had not believed it true at the time.⁵⁶

2. Records of Regularly Conducted Activity.

A memorandum, report, record, or data compilation, in any form, of acts, events, conditions, opinions, or diagnoses, made at or near the time by, or from information transmitted by, a person with knowledge, if kept in the course of a regularly conducted business activity, and if it was the regular practice of that business activity to make the memorandum, report, record, or data compilation, all as shown by the testimony of the custodian or other qualified witness, or by affidavit that complies with Rule 902(10), unless the source of information or the method or circumstances of preparation indicate lack of trustworthiness. “Business” as used in this paragraph includes any and every kind of regular organized activity whether conducted for profit or not.⁵⁷ For example, if a spouse keeps financial records as part of a regularly organized activity, the records can be admitted under this exception with the spouse as the sponsoring witness, without a business records affidavit. Courts have admitted check registers, medical bills and receipts, and cancelled checks in this way.⁵⁸ The predicate for admissibility under the business records exception is established if the party offering the evidence establishes that the records were generated pursuant to a course of regularly conducted business activity and that the records were created by or from information transmitted by a person with knowledge, at or near the time of the event.⁵⁹ Business records that have been created by one entity, but which have become another entity’s primary record of the underlying transaction may be admissible pursuant to

⁵⁶ *Id.*

⁵⁷ Tex. R. Evid. 803(6).

⁵⁸ See *Sabatino v. Curtiss Nat’l Bank*, 415 F.2d 632, 634 (5th Cir. 1969); *In re M.M.S. and I.M.S.*, 256 S.W.3d 470, 477 (Tex.App.—Dallas 2008, no pet.); *Strahan v. Strahan*, 2003 WL 22723432 *8 (Tex.App.—Houston [1st Dist.] 2003) (memo op.).

⁵⁹ *Martinez v. Midland Credit Management, Inc.*, 250 S.W.3d 481, 485 (Tex.App.—El Paso 2008, no pet).

Rule 803(6).⁶⁰ Although Rule 803(6) does not require the predicate witness to be the record’s creator or have personal knowledge of the content of the record, the witness must have personal knowledge of the manner in which the records were prepared.⁶¹ In order for a compilation of records to be admitted, there must be a showing that the authenticating witness or another person compiling the records had personal knowledge of the accuracy of the statements in the documents.⁶²

3. Market Reports, Commercial Publications.

Market quotations, tabulations, lists, directories, or other published compilations, generally used and relied upon by the public or by persons in particular occupations.⁶³ Where it is proven that publications of market prices or statistical compilations are generally recognized as reliable and regularly used in a trade or specialized activity by persons so engaged, such publications are admissible for the truth of the matter published.⁶⁴ A variety of potentially-relevant commercial data published online can be admissible under this exception.

C. Statements That Are Not Hearsay.

Evidence constitutes hearsay only if it is (1) an assertive statement (2) by an out-of-court declarant (3) offered to prove the truth of the assertion.⁶⁵

1. Computer Generated “Statements.”

“Cases involving electronic evidence often raise the issue of whether electronic writings constitute ‘statements’ under Rule 801(a). Where the writings are non-assertive, or not made by a ‘person,’ courts have held that they do not constitute hearsay, as they are not ‘statements.’”⁶⁶

While there may be authentication issues relating to computer-generated text or computer-processed data, several federal cases have held that such information is not hearsay:

United States v. Khorozian, 333 F.3d 498, 506 (3d Cir.2003) (“[N]either the header nor the text of the fax

⁶⁰ *Id.*

⁶¹ *Id.*

⁶² *In re EAK*, 192 SW3d 133, 143 (Tex.App.—Houston [14th Dist.] 2006, no pet.).

⁶³ Tex. R. Evid. 803(17).

⁶⁴ *Patel v. Kuciemba*, 82 S.W.3d 589, 594 (Tex.App.—Corpus Christi 2002, pet. denied).

⁶⁵ Edward J. Imwinkelreid, *Evidentiary Foundations*, 7th ed., §10.01, p. 407 (2008).

⁶⁶ *Lorraine v. Markel American Ins. Co.*, 241 F.R.D. 534, 564-65 (D.Md. 2007) (memo. op.).

was hearsay. As to the header, “[u]nder FRE 801(a), a statement is something uttered by “a person,” so nothing “said” by a machine is hearsay”);

Safavian, 435 F.Supp.2d at 44 (holding that portions of e-mail communications that make imperative statements instructing defendant what to do, or asking questions are nonassertive verbal conduct that does not fit within the definition of hearsay);

Telewizja Polska USA, 2004 WL 2367740 (finding that images and text posted on website offered to show what the website looked like on a particular day were not “statements” and therefore fell outside the reach of the hearsay rule);

Perfect 10, 213 F.Supp.2d at 1155 (finding that images and text taken from website of defendant not hearsay, “to the extent these images and text are being introduced to show the images and text found on the websites, they are not statements at all—and thus fall outside the ambit of the hearsay rule.”);

United States v. Rollins, rev’d on other grounds 2004 WL 26780, at *9 (A.F.Ct.Crim.App. Dec.24, 2003)(“Computer generated records are not hearsay: the role that the hearsay rule plays in limiting the fact finder’s consideration to reliable evidence received from witnesses who are under oath and subject to cross-examination has no application to the computer generated record in this case. Instead, the admissibility of the computer tracing system record should be measured by the reliability of the system itself, relative to its proper functioning and accuracy.”);

State v. Dunn, 7 S.W.3d 427, 432 (Mo.Ct.App.2000) (“Because records of this type [computer generated telephone records] are not the counterpart of a statement by a human declarant, which should ideally be tested by cross-examination of that declarant, they should not be treated as hearsay, but rather their admissibility should be determined on the reliability and accuracy of the process involved.”);

State v. Hall, 976 S.W.2d 121, 147 (Tenn.1998) (reviewing the admissibility of computer generated records and holding “[t]he role that the hearsay rule plays in limiting the fact finder’s consideration to reliable evidence received from witnesses who are under oath and subject to cross-examination has no application to the computer generated record in this case. Instead, the admissibility of the computer tracing system record should be measured by the reliability of the system, itself, relative to its proper functioning and accuracy.”).

2. Metadata

Metadata is the computer-generated data about a file, including date, time, past saves, edit information, etc. It would likely be considered a non-statement under the above logic, and therefore non-hearsay. It remains important to properly satisfy authentication requirements. A higher authentication standard may apply, since it is computer-processed data, rather than merely computer-stored data.

However, since metadata is normally hidden and usually not intended to be reviewed, several states have issued ethics opinions concluding that it is unethical to mine inadvertently-produced metadata.⁶⁷ A few ethics opinions have held that mining metadata is not unethical.⁶⁸ Texas does not yet have an ethics opinion directly on point.

3. Admissions by a Party-Opponent.

The statement is offered against a party and is: (A) the party’s own statement in either an individual or representative capacity; (B) a statement of which the party has manifested an adoption or belief in its truth; (C) a statement by a person authorized by the party to make a statement concerning the subject; (D) a statement by the party’s agent or servant concerning a matter within the scope of the agency or employment, made during the existence of the relationship; *or* (E) a statement by a co-conspirator of a party during the course and in furtherance of the conspiracy.⁶⁹

The exemption for admissions by a party-opponent is extremely useful in overcoming a hearsay objection to texts, emails, Facebook wall posts, etc. The *Massimo*⁷⁰ case has a description of the authentication of a party’s emails as well as a discussion of whether the emails meet the hearsay exemption for admission by party opponent or the hearsay exception for a statement against interest. A recent Texas family case held that statements by a party on his MySpace page were non-hearsay as admissions by a party-opponent.⁷¹

⁶⁷ NY. Comm. On Prof’l Ethics, Op. 749 (1002); Prof’l Ethics of the Fla. Bar, Op. 06-2 (2006); Ala. State Bar office of the Gen. Counsel, Op. No. 2007-02 (2007); D.C. Bar, Op. 341.

⁶⁸ Md. State Bar Ass’n, Comm. on Ethics, Op. 2007-092 (2006); ABA Formal Op. 06-442.

⁶⁹ Tex. R. Evid. 801(e)(2).

⁷⁰ *Massimo v. State*, 144 SW3d 210, 215-17 (Tex.App.--Fort Worth 2004, no pet.).

⁷¹ *In re TT*, 228 SW3d 312, 316-17 (Tex.App.--Houston [14th Dist.] 2007, pet. denied).

VI. WITNESSES.

Online evidence can also be useful in managing a witness.

A. Writing Used to Refresh Memory.

Social networking or other electronic communications can be a useful record of events or a witness's thoughts. If a witness's memory fails, a writing, including an electronic communication, may be used to refresh the witness's memory.

There is often confusion about the difference between a recorded recollection under the hearsay exception of Rule 803(5) and a writing used to refresh memory under Rule 613. The *Welch*⁷² case discusses the distinction: A witness testifies from present recollection what he remembers presently about the facts in the case. When that present recollection fails, the witness may refresh his memory by reviewing a memorandum made when his memory was fresh. After reviewing the memorandum, the witness must testify either his memory is refreshed or his memory is not refreshed. If his memory is refreshed, the witness continues to testify and the memorandum is not received as evidence. However, if the witness states that his memory is not refreshed, but has identified the memorandum and guarantees the correctness, then the memorandum is admitted as past recollection recorded. Where the memorandum, statement or writing is used to refresh the present recollection of the witness and it does, then the memorandum does not become part of the evidence, for *it is not the paper that is evidence*, but the recollection of the witness.⁷³

An adverse party is entitled to have the writing produced at the hearing, to inspect it, to cross-examine the witness thereon, and to introduce in evidence those portions which relate to the testimony of the witness.⁷⁴

Practice Note: Use of an otherwise privileged writing to refresh a party's memory will constitute a waiver of that privilege.⁷⁵

B. Impeachment.

Electronic communications can be some of the most useful tools for impeachment. Impeachment evidence is generally hearsay and does not have

probative value.⁷⁶ Prior inconsistent statements offered to impeach the witness's credibility do not constitute hearsay because they are not offered for the truth of the matter asserted.⁷⁷ If the impeachment evidence meets a hearsay exception or exemption, however, it may be admitted as probative evidence.

The *Michael*⁷⁸ case gives an excellent summary of the means of impeachment: There are five major forms of impeachment: two are specific, and three are nonspecific. Specific impeachment is an attack on the accuracy of the specific testimony (i.e., the witness may normally be a truth-teller, but she is wrong about X), while non-specific impeachment is an attack on the witness generally (the witness is a liar, therefore she is wrong about X). The two specific forms of impeachment are impeachment by prior inconsistent statements and impeachment by another witness. The three non-specific forms of impeachment are impeachment through bias or motive or interest, impeachment by highlighting testimonial defects, and impeachment by general credibility or lack of truthfulness. Electronic evidence can be useful for providing specific impeachment (previous statements by the witness) as well as non-specific impeachment (photos of the witness in situations that reflect poorly on the witness's credibility).

1. Prior Inconsistent Statement.

In examining a witness concerning a prior inconsistent statement made by the witness, whether oral or written, and *before* further cross-examination concerning, or extrinsic evidence of such statement may be allowed, the witness must be told the contents of such statement and the time and place and the person to whom it was made, and must be afforded an opportunity to explain or deny such statement. If written, the writing need not be shown to the witness at that time, but on request the same shall be shown to opposing counsel. If the witness unequivocally admits having made such statement, extrinsic evidence of same shall not be admitted. This provision does not apply to admissions of a party-opponent as defined in Rule 801(e)(2).⁷⁹

If a proper predicate is not laid, the inconsistent statement may be excluded and further cross-examination on the subject blocked. However, if the

⁷² *Welch v. State*, 576 S.W.2d 638, 641 (Tex.Crim.App. 1979).

⁷³ *Wood v. State*, 511 S.W.2d 37, 43 (Tex.Crim.App. 1974) (emph. added).

⁷⁴ Tex. R. Evid. 613.

⁷⁵ *City of Denison v. Grisham*, 716 S.W. 2d 121, 123 (Tex.App.— Dallas 1986, orig proceeding)

⁷⁶ *Lewis v. Merrill*, 295 S.W.2d 920, 923 (Tex.Civ.App. 1956).

⁷⁷ See *Flores v. State*, 48 S.W.3d 397, 404 (Tex.App.— Waco 2001, pet. ref'd).

⁷⁸ *Michael v. State*, 235 S.W.3d 723, 726 (Tex.Crim.App. 2007).

⁷⁹ Tex. R. Evid. 613(a) (emph. added).

witness is the opposing party, no confrontation is required, and no opportunity to explain need be given.

2. Impeaching Hearsay Statements.

The credibility of hearsay statements can be impeached just as if the statements were uttered by a witness. If an opponent successfully uses online communications from a third party, an attorney can put on evidence to impeach the credibility of the out-of-court declarant. Tex. R. Evid. 806 provides that when a hearsay statement, or a non-hearsay statement defined by Rule 801(e), has been admitted in evidence, the credibility of the out-of-court declarant may be attacked. Evidence of a statement or conduct by the declarant at any time may be offered to impeach the out-of-court declarant. There is no requirement that the declarant be afforded an opportunity to deny or explain. If the credibility of the out-of-court declarant is attacked, it may be supported by any evidence which would be admissible if the declarant had testified as a witness. If the party against whom a hearsay statement has been admitted then calls the declarant as a witness, the party is entitled to examine the declarant on the statement as if under cross-examination.

C. Character Evidence.

Social networking evidence can be especially useful for providing character evidence or evidence of a party's prior conduct.

Evidence about prior instances of conduct used to show that a person acted in conformity on a particular occasion is generally inadmissible.⁸⁰ However, under 404(b), such evidence may be admissible for other purposes, such as showing proof of motive, opportunity, intent, preparation, plan, knowledge, identity, or absence of mistake or accident. Further, evidence of a person's habit or routine practice, whether corroborated or not and regardless of the presence of eyewitnesses, is relevant to prove that the conduct of the person on a particular occasion was in conformity with the habit or routine practice.⁸¹

Although evidence of specific acts is limited, character evidence through testimony of a person's reputation or by testimony in the form of an opinion is admissible.⁸² If reputation or opinion testimony is admitted, evidence of specific instances of conduct is permitted on cross-examination.

While the use of character evidence in civil cases is limited by the rules of evidence, in family law, several important exceptions make the use of character

evidence relevant and commonly-used. In custody cases, evidence of the prior conduct of a parent is regularly presented to show that future behavior is likely to be in conformity. One termination case has drawn a relevant distinction: The evidence regarding the father's prior criminal behavior, convictions, and imprisonment was not offered to prove conduct in conformity or to impeach his credibility as a witness. Instead, it was relevant and probative to whether he engaged in a course of conduct that endangered the child.⁸³ A modification case held that, while evidence of past misconduct or neglect may not of itself be sufficient to show present unfitness in a suit affecting the parent-child relationship, such evidence is permissible as an inference that a person's future conduct may be measured by her past conduct as related to the same or similar situation.⁸⁴ Another modification case held that a parent's prior conduct can give rise to a material and substantial change in circumstances of the child.⁸⁵

VII. UNFAIR PREJUDICE.

If an attorney trying to keep a piece of evidence out has failed to block the evidence based on relevance, authenticity, hearsay, or the original writing rule, the final step is the requirement to balance evidence's probative value against the potential for unfair prejudice, or other harm, under Rule 403. This rule states: Although relevant, evidence may be excluded if its probative value is substantially outweighed by the danger of unfair prejudice, confusion of the issues, or misleading the jury, or by considerations of undue delay, or needless presentation of cumulative evidence.

Although Rule 403 may be used in combination with any other rule of evidence to assess the admissibility of electronic evidence, courts are particularly likely to consider whether the admission of electronic evidence would be unduly prejudicial in the following circumstances:

Offensive language. When the evidence would contain offensive or highly derogatory language that may provoke an emotional response.

Monotype Corp., 43 F. 3d at 450 (Finding that trial court properly excluded an email from a Microsoft employee under Rule 403 that contained a "highly

⁸⁰ See, *Burton v. Kirby*, 775 S.W.2d 834, 837 (Tex.App.—Austin 1989, no writ); *Penwell v. Barrett*, 724 S.W.2d 902, 907 (Tex.App.—San Antonio 1987, no writ).

⁸¹ Tex. R. Evid. 406.

⁸² Tex. R. Evid. 405(a).

⁸³ *In re JTG*, 121 SW3d 117, 133 (Tex.App.—Fort Worth 2003, no pet.).

⁸⁴ *Kirby v. Chapman*, 917 S.W.2d 902, 911 (Tex.App.—Fort Worth 1996, no pet.).

⁸⁵ *In re ALE*, 279 S.W.3d 424 (Tex. App.—Houston [14th Dist.] 2009, no pet.).

derogatory and offensive description of ... [another company's] type director.'").

Computer Animations. When analyzing computer animations, to determine if there is a substantial risk that the jury may mistake them for the actual events in the litigation.

Friend v. Time Manufacturing Co., 2006 WL 2135807 at * 7 (D. Ariz. 2006) (“Therefore, the question is simply whether the animation accurately demonstrates the scene of the accident, and whether the probative value is substantially outweighed by the danger of unfair prejudice, confusion of the issues, or misleading the jury, or by considerations of undue delay, waste of time, or needless presentation of cumulative evidence.”).

State v. Sayles, 662 N.W. 2d 1, 11 (Iowa, 2003) (Appellate court found no error in trial court’s admission of computer animation slides showing effects of shaken infant syndrome, finding that trial court properly considered state version of Rule 403, and admitted evidence with a cautionary instruction that the evidence was only an illustration, not a re-creation of the actual crime).

Summaries. When considering the admissibility of summaries of voluminous electronic writings, recordings or photographs under Rule 1006.

*Weinstein*⁸⁶ (“Summary evidence is subject to the balancing test under Rule 403 that weighs the probative value of evidence against its prejudicial effect.”).

Reliability and Accuracy. In circumstances when the court is concerned as to the reliability or accuracy of the information that is contained within the electronic evidence.

St. Clair v. Johnny’s Oyster and Shrimp Inc., 76 F. Supp. 2d 773 (S.D. Tx. 1999) (Court expressed extreme skepticism regarding the reliability and accuracy of information posted on the internet, referring to it variously as “voodoo information”. Although the court did not specifically refer to Rule 403, the possibility of unfair prejudice associated with the admissibility of unreliable or inaccurate information, as well as for confusion of the jury, makes Rule 403 a likely candidate for exclusion of such evidence).

⁸⁶ JACK B. WEINSTEIN & MARGARET A. BERGER, WEINSTEIN’S FEDERAL EVIDENCE § 1006.08[3] (Joseph M. McLaughlin ed., Matthew Bender 2d ed. 1997).

VIII. EXPERT TESTIMONY AND OPINIONS.

A. Basis of Expert Testimony and Opinions.

Increasingly, parties are bringing electronic evidence directly to experts, including Facebook posts, Twitter “tweets,” online photo albums, and other relevant social networking posts. For example, social study evaluators are being handed printouts of a spouse’s online activity. To determine how this evidence affects an expert’s work, attorneys should look back at the rules regarding expert testimony.

B. Factors Relied Upon.

The general rule is that, once properly qualified, an expert can base his or her opinion on just about anything remotely relevant to the issue he or she is called to testify about—including evidence of online activity. Tex. R. Evid. 703 permits an expert to rely on the following to base his opinion:

Personal Knowledge. This would include such observations as statements made by the parties, testing results, etc.

Facts/Data Made Known to the Expert at or Before the Hearing. Many mental health professionals rely and may rely on other evidence presented by others, deposition testimony and reports of other experts.

Inadmissible Evidence, if Relied on by Others. The reliance on tests, trade journals, other medical reports, etc. has not created much controversy in regard to expert opinions.⁸⁷ However, a problem may arise when the expert begins to recount a hearsay conversation he has had with another. Tex. R. Evid. 703 implies that this type of testimony is permissible, but the case law indicates that there are limits. A trial court may permit the expert to state that his or her opinion was based in part on what another had related, but should not permit the expert to disclose what was actually said.⁸⁸ The pre-rules case of *Moore*,⁸⁹ held that such testimony was limited to show the foundation of the opinion. In *Birchfield*,⁹⁰ the Court held that “[o]rdinarily an expert witness should not be permitted to recount a hearsay conversation with a third party, even if that conversation forms part of the basis of his opinion.” However, the *Birchfield* court permitted the testimony

⁸⁷ See, *Noriega v. Mireles*, 925 S.W.2d 261, 264-265 (Tex.App.—Corpus Christi 1996, writ denied).

⁸⁸ *First Southwest Lloyds Ins. Co. v. MacDowell*, 769 S.W.2d 954, 958 (Tex.App.—Texarkana 1989, writ denied). In *Sosa by and through Grant v. Koshy*, 961 S.W.2d 420, 427 Tex.App.—Houston [1st Dist.] 1997, review denied).

⁸⁹ *Moore v. Grantham*, 599 S.W.2d 287, 289 (Tex. 1980).

⁹⁰ 747 S.W.2d at 365.

to stand based on the theory of invited error on the part of defendant's counsel. This issue can often come up with social workers assigned to custody cases. In their testimony, they should not be able to restate what third parties have said, unless that statement fits one of the hearsay exceptions.⁹¹ This principle can be used to block an expert from detailing what third parties have said in online communications, even if an attorney cannot prevent it from influencing the experts conclusion.

C. Jury Trials

Courts have also placed limits on expert testimony in jury cases. For example, in *Ochs*,⁹² the court held that a psychologist in a child abuse case was not permitted to testify before a jury as to the propensity of the child complainant to tell the truth regarding the alleged abuse. The court reasoned that such testimony invaded the province of the jury in regard to judging the credibility of the witness.⁹³ Social studies are generally inadmissible hearsay before a jury, although the worker is competent to testify as a witness.⁹⁴ A court should not exclude the testimony of a social worker merely because that witness is not court-appointed.⁹⁵

IX. DEMONSTRATIVE EVIDENCE.

There is often confusion about demonstrative evidence. Demonstrative evidence is used as an aid to the court in presenting information, but it is not admitted into evidence, and it cannot be taken back into the jury room along with the admitted evidence. Common examples of demonstrative evidence are PowerPoint slide shows, lists or drawings on a tablet, or other visual aids. An attorney can use courtroom demonstratives without authenticating or admitting them into evidence. For example, demonstrative evidence may be used during voir dire.⁹⁶

Demonstrative evidence does not have to meet admissibility requirements under the rules of evidence. However, while a court has the discretion to permit counsel the use of visual aids, including charts, to assist in summarizing the evidence, the court also has the power to exclude such visual aids.⁹⁷

If a demonstrative does meet the requirements for admissibility, an attorney may offer it into evidence. One court allowed the admission into evidence of a golf club that was alleged to be similar to one used in a crime.⁹⁸ Demonstrative evidence that summarizes or even emphasizes the testimony is admissible if the underlying testimony has been admitted, or is subsequently admitted into evidence.⁹⁹ Admission of charts and diagrams which summarize a witness' testimony is within the discretion of the court.¹⁰⁰ Even if exhibits contain excerpts from witness' testimony and are admitted, the trial court must permit them to be taken into the jury room.¹⁰¹

X. CONCLUSION

Although using modern evidence can feel like a new puzzle, attorneys are still working with the same familiar rules of evidence. Do not be intimidated just because evidence is electronic in nature. An attorney who is well-prepared to argue how the rules of evidence apply to electronic evidence can successfully use even the newest technologies.

⁹¹ *Rosendorf v. Blackmon*, 800 S.W.2d 377, 380 (Tex.App.—Corpus Christi 1990, no writ); *D.M.B. v. R.L.B.*, 798 S.W.2d 399, 402 (Tex.App.—Amarillo 1990, no writ).

⁹² *Ochs v. Martinez*, 789 S.W.2d 949, 956 (Tex.App.—San Antonio 1990, writ denied)

⁹³ *Id.* at 957.

⁹⁴ *Rossen v. Rossen*, 792 S.W.2d 277, 278 (Tex.App.—Houston [1st Dist.] 1990, no writ); *see also, Chacon v. Chacon*, 978 S.W.2d 633, 638 (Tex.App.—El Paso

1998, no pet.). Under Tex. Fam. Code §§ 107.054-55, while a social study is made part of the record, it is subject to the rules of evidence in being presented to a jury.

⁹⁵ *See, Davis v. Davis*, 801 S.W.2d 22, 23 (Tex.App.—Corpus Christi 1990, no writ).

⁹⁶ *See Hanson v. State*, No. 07-07-0138-CR (Tex.App.—Amarillo Oct. 9, 2008, no pet.) (memo. op.).

⁹⁷ *See Hartin v. State*, No. 09-07-00547-CR (Tex.App.—Beaumont Apr. 22, 2009, no pet.) (memo. op.).

⁹⁸ *See Lynch v. State*, No. 07-06-0104-CR (Tex.App.—Amarillo May 23, 2007, no pet.) (memo. op.).

⁹⁹ *North American Van Lines, Inc. v. Emmons*, 50 S.W.3d 103, 130 (Tex.App.—Beaumont 2001, pet. denied).

¹⁰⁰ *Speier v. Webster College*, 616 S.W.2d 617, 618 (Tex. 1981); *Uniroyal Goodrich Tire Co. v. Martinez*, 977S.W.2d 328, 342 (Tex. 1998).

¹⁰¹ *Houston Lighting & Power Co. v. Klein I.S.D.*, 739 S.W.2d 508, 519 (Tex.App.—Houston [14th Dist.] 1987, no writ).