DRAFT

FOR DISCUSSION ONLY

UNIFORM ELECTRONIC TRANSACTIONS ACT

NATIONAL CONFERENCE OF COMMISSIONERS ON UNIFORM STATE LAWS

MARCH 23, 1998

UNIFORM ELECTRONIC TRANSACTIONS ACT

With Comments

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1	PART 1
2	GENERAL PROVISIONS
3	SECTION 101. SHORT TITLE. This [Act] may be cited as the
4	Uniform Electronic Transactions Act.
5	SECTION 102. DEFINITIONS.
6	(a) In this [Act] unless the context otherwise requires:
7	(1) "Agreement" means the bargain of the parties in
8	fact as found in their language or inferred from other
9	circumstances, including course of performance, course of dealing
10	and usage of trade as provided in this [Act]. Whether an
11	agreement has legal consequences is determined by this [Act], if
12	applicable, or, otherwise by other applicable rules of law.
13 14 15 16 17 18 19 20 21 22	<pre>Source: Revised Article 1, Section 1-201(3) (Sept. 1997 Draft) Textual References: Section 105. Variation by Agreement; Section 202. Attribution of Electronic Record; Section 401. Formation and Validity. Committee Votes: 1. To delete the concept of manifestation of assent from the definition - By consensus (no formal vote) (Sept. 1997) 2. To delete course of performance, course of dealing and usage of trade: Committee 4 Yes - 2 No; Observers 6 Yes - 1 No. (Jan. 1998)</pre>
23 24 25 26 27 28 29 30 31 32 33 34 35 37 38	Notes to This Draft: At the September, 1997 Meeting the definition of agreement which included terms to which a party manifested assent was rejected. The consensus of both the Committee and observers was that there was no need to separate manifestations of assent from the language and circumstances which comprise the bargain in fact of the parties as part of the definition of agreement. Rather the Reporter was directed to return to the definition of agreement in the Uniform Commercial Code. Accordingly, the definition in the November Draft was taken from the most recent revision to Article 1. At the January, 1998 Meeting, the Committee more specifically defined the policy guiding this Act: the Act is a procedural act providing for the means to effectuate transactions accomplished via an electronic medium, and, unless absolutely necessary because of the unique circumstances of the electronic medium, the Act should leave all questions of substantive law to

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law outside this Act. In light of this principle the prior references to usage evidence as informing the content of an agreement was considered substantive, and therefore, best left to other law outside this Act.

The need for a definition of agreement was acknowledged largely because the existence of a security procedure, as defined below, depends on the agreement of the parties. However, the facts and evidence which establish an agreement is intended to be left to other law, e.g., the Uniform Commercial Code, common law, etc.

Reporter's Note: Whether the parties have reached an agreement is determined by their express language and surrounding circumstances. The Restatement of Contracts §3 provides that "An agreement is a manifestation of mutual assent on the

part of two or more persons. A bargain is an agreement to exchange promises or to exchange a promise for a performance or to exchange performances."

The Uniform Commercial Code specifically includes in the circumstances from which an agreement may be inferred "course of performance, course of dealing and usage of trade..." as defined in the UCC.

The existence and content of an agreement under this Act is determined by the parties' language and surrounding circumstances. The relevant surrounding circumstances and the context of the transaction will inform the precise terms of any agreement. The second sentence of this definition makes clear that the substantive law applicable to an electronic transaction effectuated by this Act must be applied to determine those circumstances relevant in establishing the precise scope and meaning of the parties' agreement.

The comment to this definition will make clear that, though derived from the UCC definition, there is no intent to affect the meaning of the term under the UCC or any other applicable law.

governmental transaction formed or performed, in whole or in part, by electronic means or electronic records in which the acts or records of one or both parties will are not be reviewed by an individual as an ordinary step in forming a contract, performing under an existing contract, or fulfilling any obligation required by the transaction.

Source: Article 2B Draft Section 2B-102(a)(4)

Textual References: Section 204. Inadvertent Error; Section 401.

Formation and Validity.

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Committee Vote: To delete references to governmental and commercial: Committee 4 Yes (Chair broke tie) - 3 No; Observers 19 Yes - 1 No. (Jan. 1998)

Notes to This Draft: Edited to reflect Committee vote and to more closely track Article B.

Reporter's Note: Article 2B has conformed its terminology with this Act by adopting "automated transaction" in place of "electronic transaction." The definitions in each are conceptually the same. The definition in this Act is broader, going beyond contract formation to performances under a contract and other obligations accomplished by electronic agents in a transaction, because of the diversity of transactions to which this Act may apply.

As with electronic agents, this definition addresses the circumstance where electronic records may result in action or performance by a party although no human review of the electronic records is anticipated. Section 401(b) provides specific contract formation rules where one or both parties do not review the electronic records.

(3) "Commercial transaction" means all matters arising

- in a commercial setting, whether contractual or not including,
- 23 but not limited to, the following: any trade transaction for the
- 24 supply or exchange of goods, information or services;
- 25 distribution agreements; commercial representation or agency;
- 26 factoring; leasing; construction of works; consulting;
- 27 engineering; licensing; investment; financing; banking;
- 28 insurance; exploitation agreement or concession; joint venture
- 29 and other forms of industrial or business cooperation or
- organization; carriage of goods or passengers by air, sea, rail
- 31 or road.

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- 32 **Committee Vote:** To delete definition: Committee 4 Yes (Chair
- 33 broke tie) 3 No; Observers 19 Yes 1 No. (Jan. 1998)
- 34 Reporter's Note: This definition was deleted as too broad, and
- 35 unnecessary in light of the approach to Scope and exclusions
- adopted by the Committee at the January, 1998 meeting. See
- 37 Reporter's Notes to Sections 103 and 104 below.

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1 "Computer program" means a set of statements or instructions to be used directly or indirectly to operate in an 2 information processing system in order to bring about a certain 3 result. The term does not include informational content created 5 or communicated as a result of the operation of the system. 6 Source: Article 2B Draft Section 2B-102(a)(6). Textual References: Section 102. "Electronic Agent," 7 8 "Information". Section 202. Attribution of Electronic Record. 9 Notes to This Draft: Edited for clarity and to more closely 10 track Article 2B. 11 Reporter's Note: This definition is from Article 2B. 12 is used principally with respect to the definition of "electronic 13 agent" and "information." Is it a necessary definition? Is it 14 an accurate definition? 15 (45)"Contract" means the total legal obligation which results resulting from the parties' agreement as affected by this 16 17 [Act] and as supplemented by other applicable rules of law. 18 Source: UCC Section 1-201(11) 19 Textual References: Section 401. Formation and Validity. 20 21 "Electronic" means electrical, digital, magnetic, (56)22 wireless, optical, or electromagnetic technology, or any other 23 form of technology that entails similar capabilities similar to 24 these technologies. 25 Source: Article 2B Draft Section 2B-102(17). 26 Textual References: Section 102. "Electronic agent," "Electronic record," "Electronic signature," "Record". Section 105. 27 28 Variation by Agreement. Section 401. Formation and Validity. Section 403. Electronic Acknowledgement of Receipt. 29 30 Notes to This Draft: This definition has been edited to more 31 closely track Article 2B. The "of or relating to" language in Article 2B is unnecessary and creates potential ambiguity. 32 33 Reporter's Note: This definition serves to assure that the Act 34

will be applied broadly as new technologies develop. While not

single term warrants the use of "electronic" as the defined term.

all technologies listed are technically "electronic" in nature

(e.g., optical fiber technology), the need for a recognized,

Query whether the definition is broad enough?

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1 (<u>67</u>) "Electronic agent" means a computer program or
2 other electronic or automated means used, selected, or programmed
3 by a person to initiate or respond to electronic records or
4 performances in whole or in part without review by an individual.

Source: Article 2B Draft Section 2B-102(a)(18). Textual References: Section 102. "Electronic Signature," "Signature". Section 107. Manifesting Assent. Section 108. Opportunity to Review. Section 202. Attribution of Electronic Section 204. Inadvertent Error. Section 302. Electronic Signatures: Effect and Proof. Section 303. Operations of Section 401. Formation and Validity. Electronic Agents. Reporter's Note: An electronic agent, as a computer program or other automated device employed by a person, is a tool of that person. As a general rule, the employer of a tool is responsible for the results obtained in the use of that tool since the tool has no independent volition of its own. However, an electronic agent by definition is capable, within the parameters of its programming, of initiating, responding or interacting with other parties or their electronic agents once it has been activated by a party, without further attention of that party. This draft contains provisions dealing with the efficacy of, and responsibility for, actions taken and accomplished by electronic agents in the absence of human intervention.

While this Act proceeds on the paradigm that an electronic agent is capable of performing only within the technical strictures of its preset programming, it is conceivable that, within the useful life of this Act, electronic agents may be created with the ability to act autonomously, and not just automatically. That is, through developments in artificial intelligence, a computer may be able to "learn through experience, modify the instructions in their own programs, and even devise new instructions." Allen and Widdison, "Can Computers Make Contracts?" 9 Harv. J.L.&Tech 25 (Winter, 1996). At such time as this may occur, "Courts may ultimately conclude that an electronic agent is equivalent in all respects to a human agent..." Article 2B-102, Reporter's Note 10.

Section 303 and Section 401 make clear that the party that sets operations of an electronic agent in motion will be bound by the records and signatures resulting from such operations. A party is bound by the actions of a computer program designed to act without human intervention, as well as electronic and automated means such as telecopy and facsimile machines used by a party.

 $(\underline{78})$ "Electronic record" means a record created, stored, generated, received, or communicated by electronic

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1 means., such as <u>information systems</u>, computer equipment and
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2 programs, electronic data interchange, electronic <u>mail</u>, or voice

3 mail, facsimile, telex, telecopying, scanning, and similar

4 technologies.

Source: Article 2B Draft Section 2B-102(a)(19)

Textual References: Passim.

Notes to this Draft: The last clause has been deleted and moved to the comment to avoid confusion. Comments to the prior draft suggested that these means of accomplishing an electronic record, were themselves electronic records. The list of mechanisms has been included in the comment/note below.

Reporter's Note: An electronic record is a subset of the broader defined term "record." Unlike the term "electronic message" used in Article 2B, the definition is not limited to records intended for communication, but extends to any information contained or transferred in an electronic medium. It is also used in this Act as a limiting definition in those provisions in which it is used.

Electronic means for creating, storing, generating, receiving or communicating electronic records include information processing systems, computer equipment and programs, electronic data interchange, electronic mail, or voice mail, facsimile, telex, telecopying, scanning, and similar technologies.

(89) "Electronic signature" means any signature in electronic form, attached to or logically associated with an electronic record, executed or adopted by a person or its electronic agent with intent to sign the electronic record.

Source: UCC Section 1-201(39); Illinois Model Section 200(3).

Textual References: Passim.

Notes to This Draft: The last clause has been deleted as redundant of the definition of signature.

Reporter's Note: As with electronic record, this definition is a subset of the broader defined term "signature." The purpose of the separate definition is principally one of clarity in extending the definition of signature to the electronic environment.

This definition has been simplified by using the defined term "signature" within this definition. The defined term "signature" has been expanded from the standard UCC definition to incorporate specifically the attributes normally attached to a written signature, and to track the concept of authentication as defined in Article 2B. The new definition of "signature" reflects the Committee's direction to delete the term

"authenticate" from the August Draft and incorporate that definition into "signature."

The key aspect of this definition lies in the necessity that the electronic signature be linked or logically associated with the electronic record. For example, in the paper world, it is assumed that the symbol adopted by a party is attached to or located somewhere in the same paper that is intended to be authenticated. These tangible manifestations do not exist in the electronic environment, and accordingly, this definition expressly provides that the symbol must in some way be linked to, or associated with, the electronic record being signed. This linkage is consistent with the regulations promulgated by the Food and Drug Administration. 21 CFR Part 11 (March 20, 1997).

An electronic signature includes any symbol adopted by a party, so long as the requisite intent to authenticate the electronic record exists (See definition of Signature). There is no requirement that there be "present intent" to sign because of the potential barrier to the efficacy of electronic signatures. While a contemporaneous signature would reflect a present intent to sign, the operations of an electronic agent which result in the creation of an electronic signature (See Section 303) may not be viewed by courts as manifesting a "present" intent since the act of programming the electronic agent may have occurred well before the attachment of the electronic signature.

A digital signature using public key encryption technology would qualify as an electronic signature, as would the mere appellation of one's name at the end of an e-mail message - so long as in each case the signature was applied with the intention to authenticate the electronic record with which it was associated. It is the adoption of the symbol with intention to authenticate that is controlling. See Parma Tile Mosaic & Marble Co. v. Estate of Short, 87 NY2d 524 (1996) where it was held that the automatic imprint of a firm name, programmed into a fax machine, was not a sufficient signature because of the absence of any intention to authenticate each document sent over the fax.

(10) "Good faith" means honesty in fact and the

observance of reasonable commercial standards of fair dealing.

Source: Revised Article 1 Section 1-201(22) (Sept. 1997 draft) Committee Vote: To delete Section 111 Obligation of Good Faith - Committee 6 Yes - 1 No; Observers 7 Yes - 5 No. (Jan. 1998) Notes to This Draft: The definition and obligation of good faith (former Section 111) have been deleted. The Committee's view was that the obligation of good faith was an issue to be determined as a matter of the substantive law applicable to the underlying transaction. Accordingly, the issue of whether good faith is required, and its impact on a given transaction is left to the substantive law applicable to the particular transaction outside this Act.

(922) "State Governmental agency" means any 1 2 executive[, legislative, or judicial] agency, department, board, commission, authority, institution, or instrumentality of this 3 State or of any county, municipality or other political 5 subdivision of this State. 6 Source: New. 7 Textual References: Section 104. Excluded Transactions. Part 5. 8 Passim. 9 Notes to This Draft: This is the definition of "State agency" 10 from the former Draft. It has been revised to be more appropriately descriptive of agencies at the local and county 11 12 levels included within the definition. 13 Reporter's Note: Although the approach to the Scope of this Act 14 has been revised (See Notes to Section 103), this definition is 15 important in the context of Part 5. The reference to legislative 16 and judicial agencies, etc. has been bracketed in light of 17 comment from members of the Committee that these should not be 18 included. The Reporter seeks direction from the Committee on whether the legislative and judicial branches should be excluded. 19 20 21 (11) "Governmental transaction" means all matters 22 arising in any governmental setting, including, but not limited 23 to, the following: all communications, filings, reports, 24 commercial documentation, or other electronic records relating to interactions between any governmental entity and any individual 25 26 outside the government; and all intragovernmental communications, 27 documents or other records employed in the conduct of 28 governmental functions between or within any branch or agency of 29 government. 30 Committee Vote: To delete definition and reference in section on 31 Scope: Committee 4 Yes - 3 No (Chair broke tie); Observers 19 32 Yes - 1 No. 33 Reporter's Note: This definition was deleted in light of the 34 Committee's approach to Scope. See Reporter's Notes to Section 35 103. Scope. 36 37 $(10\frac{12}{})$ "Information" means data, text, images, sounds, 38 codes, computer programs, software, databases, and or the like. 39 Source: Illinois Model Section 200(4); Article 2B Draft Section 40 2B-102(a)(23). 41 Textual References: Section 102. "Informational content," "Information processing system," "Notify," "Record". Section 42

107. Manifestation of Assent. Section 110. Effect of Requiring

Originals: Accuracy of Information. Section 206. Retention of

Commercially Unreasonable Security Procedure. Section 205.

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1 Electronic Records. Section 402. Time and Place of Sending and 2 Receipt. 3 (11) "Informational content" means information that in 4 its ordinary use is intended to be communicated to or perceived 5 by a person in the ordinary use of the information. Source: Article 2B Draft Section 2B-102(25). 6 7 **Textual References:** Section 102. "Security procedure". 8 203. Detection of Changes and Errors. Section 302. Electronic 9 Signatures: Effect and Proof. 10 Reporter's Note: This definition has been added to differentiate 11 information in an electronic record, which includes all data forming part of an electronic record, with the informational 12 13 content of an electronic record which is the portion of the 14 electronic record intended actually to be used by a human being. 15 The example from Article 2B most clearly establishing this 16 distinction is the Westlaw user who uses the search program to 17 retrieve a case. The search program would be information, but 18 only the case retrieved would be informational content. "Information processing system" means a system 19 $(12\frac{13}{1})$ for creating, generating, sending, receiving, storing, 20 21 displaying, or otherwise processing information, including 22 electronic records. 23 Source: Uncitral Model Article 2(f); Article 2B Draft Section 2B-24 102(a)(24). 25 Textual References: Section 402. Time and Place of Sending and 26 Receipt. 27 Reporter's Note: This term is used in Section 402 regarding the 28 time and place of receipt of an electronic record. It is 29 somewhat broader than the Article 2B definition. Query the 30 accuracy and completeness of this definition? 31 "Notify" means to communicate, or make (1314)32 available, information to another person in a form and manner as 33 appropriate or required under the circumstances. 34

37 Reporter's Note: As with the provisions on receipt in Section 38 402, a notice sent to a party must be in a proper format to 39 permit the recipient to use and understand the information. For

Section 403. Electronic Acknowledgement of Receipt.

Illinois Model Section 103(22) (June 4 Interim Draft).

Textual References: Section 203. Detection of Changes and Errors.

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1 2 3 4 5 6 7	example, sending a message to a recipient in the United States in Chinese would not suffice to notify the recipient of the content of the message, in the absence of proof that the recipient understood Chinese. Similarly, sending a notice in WordPerfect 7.0 may not be appropriate when many people do not have the capability to convert from that format. In such a case, a more universal format such as ASCII would be required.
8	(<u>14</u> 15) "Organization" means a person other than an
9	individual.
10 11 12 13	Source: UCC Section 1-201(28). Textual References: None. Reporter's Note: Although, this is a standard Conference definition, it has been deleted since it is not used.
14	(1416) "Person" means an individual, corporation,
15	business trust, estate, trust, partnership, limited liability
16	company, association, joint venture, government, governmental
17	subdivision, or agency, or instrumentality, or public
18	corporation, or any other legal or commercial entity.
19 20 21 22	Source: CC Section 1-201(30). Textual References: Passim Reporter's Note: This is the standard Conference formulation for this definition.
23	[ALTERNATIVE 1]
24	$(\underline{15}\overline{17})$ "Presumption" or "presumed" means that the
25	trier of fact must find the existence of the fact presumed unless
26	and until evidence is introduced which would support a finding of
27	its non-existence.
28	Source: UCC Section 1-201(31)
29	[ALTERNATIVE 2]
30	(15 17) "Presumption" means that when a fact or group
31	of facts giving rise to a presumption (the "basic fact") exists,
32	the existence of the fact to be assumed upon a finding of the

1	<pre>basic fact (the "presumed fact") must be assumed unless and until</pre>
2	the party against whom the presumption is directed produces
3	evidence which would support a finding of the non-existence of
4	the presumed fact. "Presumed" has a corresponding meaning.
5 6	Source: Derived from the definitions in Revised Uniform Rules of Evidence 301 and 302
7 8	[ALTERNATIVE 3] (15 17) "Presumption" means an inference of fact in
9	issue which the law requires to be drawn from certain proven
10	facts, unless and until the party against which the inference is
11	directed produces evidence which would support a finding of its
12	non-existence. "Presumed" has a corresponding meaning.
13	Source:Derived from revision suggested by Committee on Style.
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Textual References: Section 110. Effect of Requiring Commercially Unreasonable Security Procedure. Section 202. Attribution of Electronic Record. Section 203. Detection of Changes and Errors. Section 302. Electronic Signatures: Effect and Proof. Section 403. Electronic Acknowledgement of Receipt. Reporter's Note: This definition is necessary to indicate the effect of the presumptions created by Sections 202, 203 and 302. While the decision whether a presumption should be created is generally one of policy relating to the substantive law, the effect to be given to a presumption once created is generally left to the rules of evidence. THE QUESTION FOR THE COMMITTEE is whether this Act should address the effect of a presumption created by this Act. Each of the above alternatives adopts the so-called "bursting bubble" approach to presumptions. That is, only the burden of producing evidence shifts, but not the ultimate burden of persuasion. Alternative 1 reflects the current definition in the UCC. The Reporter was advised by Neil Cohen, Reporter for the revision of Article 1, that the committee has taken a strong position that the definition should not be changed. Alternative 2 is derived from the most recent draft of Rules 301 and 302 of the Revised Uniform Rules of Evidence which the Reporter has seen. The draft of Rules 302 currently provides:

In all civil actions and proceedings not otherwise provided for by statute, by judicial decision, or by these rules, a presumption imposes on the party against whom it is directed

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the burden of proving that the nonexistence of the presumed fact is more probable than its existence.

This provision goes beyond the "bursting bubble" approach and shifts the ultimate burden of persuasion regarding the presumed fact.

Alternative 3 is based on the revision suggested by the Committee on Style. The Committee on Style's revision provides:

"Presumption" means an inference of fact in issue which the law requires to be drawn from certain known facts and which substitutes for evidence of the presumed fact unless the party against which it is directed proves that its nonexistence is more probable than its existence. "Presumed" has a corresponding meaning.

The effect of this definition also would result in the shifting of the burden of persuasion. In addition, while a presumption may be viewed as a legally required inference, it is not considered to be a substitute for evidence of the presumed fact. 2 McCormick on Evidence, §344 (Strong ed., 4th ed. 1992); Mueller and Kirkpatrick, Evidence §3.8 (Little Brown, 1995).

All alternatives in this draft have been revised, when necessary, to provide for the lesser effect of a "bursting bubble" presumption.

This draft creates presumptions, in those circumstances where the parties have agreed to or adopted a security procedure which is commercially reasonable, regarding 1) attribution of an electronic record to a party (202(b)); the absence of changes (203(a)) and errors (203(b)) in an electronic record; and the existence, authenticity and authority to make an electronic signature (302(b)). Under Section 105(a) the parties remain free to alter the effect to be given to electronic records and signatures affected by the use of security procedures, i.e., the parties may agree to stronger or weaker presumptions which may attach.

The effect of a bursting bubble presumption is demonstrated by McCormick in reference to the presumption of receipt of a properly addressed and posted letter. McCormick notes:

[T]he defendant may destroy the presumption by denying receipt. Nevertheless, a jury question is presented, not because of the presumption, but because of the natural inference flowing from the plaintiff's showing that she had mailed a properly addressed letter that was not returned.

2 McCormick on Evidence §344. Similarly, when a party proves the implementation of a commercially reasonable security procedure, the other party may destroy the presumption (e.g., attribution, lack of errors, etc.), by directly denying the presumed fact (attribution, error, etc). However, a jury question may remain based on the strength of the evidence of the security procedure

and the natural inference that, if followed the security procedure would demonstrate that the electronic record was that of the sender, did not contain errors, etc.

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This "soft presumption" is appropriate in this Act given the uncertainties in the development and robustness of security procedures. It places on the party against whom the presumption is directed the obligation to expressly and directly deny the fact of attribution, lack of error, etc. At the same time, the proof regarding the quality of the security procedure gives rise to an inference (stronger or weaker, depending on the quality of the procedure) that the existence of the presumed fact is more credible than the party's denial.

 $(\underline{1618})$ "Record" means information that is inscribed on a tangible medium or that is stored in an electronic or other medium and is retrievable in perceivable form.

Source: Article 2B Draft Section 2B-102(a)(37). Textual References: Section 102. "Automated Transaction," "Electronic Record," "Signature," "Transferable Record," "Writing". Section 105. Variation by Agreement. Section 107. Manifestation of Assent. Section 108. Opportunity to Review. Section 201. Legal Recognition of Electronic Records. 203. Detection of Changes and Errors. Section 205. Originals: Accuracy of Information. Section 206. Retention of Electronic Records. Section 302. Electronic Signatures: Effect and Proof. Section 401. Formation and Validity. Section 403. Electronic Acknowledgement of Receipt. Section 405. Transferable Records. Section 501. Creation and Retention of Records... Reporter's Note: This is the standard Conference formulation for this definition.

(1719) "Rule of law" means a statute, regulation, ordinance, common-law rule, court decision, or other law relating to commercial or governmental transactions enacted, established, or promulgated by in this State, or any agency, commission, department, court, or other authority or political subdivision of this State.

Source: Oklahoma Model Section II.F; Illinois Model Section 200(7).

Textual References: Section 201. Legal Recognition of Electronic Records. Section 205. Originals: Accuracy of Information.

Section 206. Retention of Electronic Records. Section 301. Legal

Section 206. Retention of Electronic Records. Section 301. Legal Recognition of Electronic Signatures.

Reporter's Note: The definition is drafted broadly. The former limitation relating to commercial and governmental transactions, has been deleted in light of the Committee's vote regarding the manner of defining the Scope of this Act.

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5 (1820)"Security procedure," with respect to either an 6 electronic record or electronic signature, means a commercially 7 reasonable procedure or methodology, established by law or regulation, or established by agreement, or adopted by the 8 9 parties, for the purpose of verifying that an electronic 10 signature, record, or performance is that of a specific person or for detecting changes or errors in the informational content of 11 12 an electronic record. (i) the identity of the sender, or source, 13 of an electronic record, or (ii) the integrity of, or detecting 14 errors in, the transmission or informational content of an 15 electronic record. A security The term includes a procedure may 16 that requires the use of algorithms or other codes, identifying words or numbers, encryption, callback or other acknowledgment 17 18 procedures, or any other procedures that are reasonable under the 19 circumstances.

Source: Article 2B Draft Section 2B-102(a)(2); Illinois Model Section 200(9); UCC Section 4A-201; Oklahoma Model Section III.B.2.

Textual References: Section 105. Variation by Agreement. Section 109. Determination of Commercially Unreasonable Security Procedure. Section 110. Effect of Requiring a Commercially Unreasonable Security Procedure. Section 202. Attribution of Electronic Records. Section 203. Detection of Changes and Errors. Section 302. Electronic Signatures: Effect and Proof. Section 302.

Notes to This Draft: Edited for clarity and to more closely track Article 2B definition of "attribution procedure," and also to eliminate the requirement that, as defined, a security procedure must be commercially reasonable. The element of commercial reasonableness remains important in the determination of the applicability of presumptions which may attach to the use of security procedures in Sections 202, 203 and 302.

Reporter's Note: Limiting security procedures to those which are either agreed to or adopted by parties or established by law or regulation, together with the requirement that only commercially reasonable security procedures give rise to limited presumptions, eliminates much of the concern over the creation of the limited presumptions in Sections 202, 203 and 302. The effect of commercially unreasonable security procedures imposed by one party is addressed in Section 110. In such cases the party at risk is the party imposing the commercially unreasonable procedure. In this way, the party with the greatest incentive to assess the risk of proceeding in a transaction with commercially unreasonable procedures will bear the loss.

The key aspects of a security procedure have been expanded in this draft to include verification of an electronic signature in addition to verification of the identity of the sender, and assurance of the informational integrity, of an electronic record. The definition does not identify any particular technology. This permits the use of procedures which the parties select or which are established by law. It permits the greatest flexibility among the parties and allows for future technological development.

(19) "Sign" means the to execute ion or adoption of a

- signature by a person or the person's electronic agent.
- 24 **Source**: UETA Section 102(21) (Nov. 25, 1997 Draft)
- 25 **Textual References:** Section 107. Manifestation of Assent.
- Section 302. Electronic Signatures: Effect and Proof. Section
- 27 303. Operations of Electronic Agents. Section 404. Admissibility
- 28 Into Evidence. Section 502. Receipt and Distribution of
- 29 Electronic Records...

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- 30 Reporter's Note: This definition has been moved from the end of
- 31 the definition of signature in the prior draft and revised to
- 32 conform to style committee comments.
- 33 (201) "Signature" means any symbol, sound, process, or
- and encryption of a record in whole or in part, executed or adopted
- by a person or the person's electronic agent with intent to:
- 36 $(i\underline{A})$ identify the party that person;
- 37 $(ii\underline{b})$ adopt or accept a term or a record; or
- (iii) establish the informational integrity of a record
- or term that contains the signature or to which a record
- 40 containing the signature refers.

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      "Sign" means the execution or adoption of a
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      signature by a person or the person's electronic agent.
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      Source: UCC Section 1-201(39); Article 2B Draft Section 2B-
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      102(a)(3)
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      Textual References: Section 102. "Electronic signature," "Sign".
6
      Section 105. Variation by Agreement. Section 301. Legal
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      Recognition of Electronic Signatures.
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      Notes to This Draft: Edited for clarity.
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      Reporter's Note: At the September Drafting Meeting, the consensus
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      of the Committee and observers was to go back to the definition
      of signature, and to delete the definition of "authenticate."
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      Given the purpose of this Act to equate electronic signatures
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      with written signatures, the sense was that retaining signature
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      as the operative word would better accomplish that purpose.
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      However, the idea of fleshing out the concept of authenticate
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      present in the existing UCC definition of signature was thought
      to be wise. Therefore, the definitional concepts set forth in the prior definition of authenticate have been carried into this
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      definition of signature.
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                          "Term" means that portion of an agreement
      which relates to a particular matter.]
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      Source: UCC Section 1-201(42)
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      Textual References: Section 102. "Signature." Section 107.
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      Manifesting Assent. Section 108. Opportunity to Review. Section
      202. Attribution of a Record. Section 302. Electronic
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26
      Signatures: Effect and Proof. Section 401. Formation and
27
      Validity.
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      Reporter's Note: This definition has its principal significance
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      in the context of manifestation of assent and opportunity to
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      review. It is bracketed pending the Committee's determination of
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      the status of those concepts in this Act.
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                         "Transferable record" means a record, other
                 (22<del>24</del>)
      than a writing, that is would be an instrument or chattel paper
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      under [Article 9 of the Uniform Commercial Code] or a document of
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      title under [Article 1 of the Uniform Commercial Code], if the
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Source: Oklahoma Model Section II.H.

Textual References: Section 405. Transferable Records.

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record were in writing.

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1 2 3	Reporter's Note: This definition is necessary in the event the Drafting Committee decides to retain the applicability of this Act to such records. See Section 405.
4	(2325) "Writing" includes printing, typewriting, or
5	and any other intentional reduction of a record to tangible form.
6	"Written" has a corresponding meaning.
7 8 9 10 11 12 13	Source: UCC Section 1-201(46). Textual References: Section 102. "Transferable record." Section 201. Legal Recognition of Electronic Records. Section 206. Retention of Electronic Records. Section 501. Creation and Retention Reporter's Note: This definition reflects the current UCC definition.
14	(b) Other definitions applying to this Act or to specified
15	sections thereof, and the sections in which they appear are:
16	"Basic fact". Section 102(15)
17	"Inadvertent error". Section 204
18	"Presumed fact". Section 102(15)
19	"Relying person". Section 202
20	"Requiring party". Section 110
21	"Responsible person". Section 202
22 23 24	Source: UCC Section 2-103(b).
25	SECTION 103. SCOPE. (a) Except as otherwise provided in
26	Section 104 or any regulation adopted pursuant to Part 5, this
27	[Act] applies to electronic records and electronic signatures
28	generated, stored, processed, communicated $_{\boldsymbol{L}}$ or used for any
29	purpose in any commercial or governmental transaction.
30	(b) Principles of law and equity shall be used to supplement
31	this [Act] except to the extent that those principles are

1 [inconsistent with] [displaced by] the terms[, purposes and

- policies] of a particular provision of this [Act]. 2
- 3 Source: Section 103 (Nov. 25, 1997 UETA Draft); Section 103 of 4 Revised Draft of Article 1.

Committee Votes:

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- To delete references to commercial and governmental transactions - Committee 4 Yes - 3 No (Chair broke tie) Observers 19 Yes - 1 No.
- To incorporate supplemental principles as part of Scope section - Committee Yes Unanimous Observers 12 Yes - 0 No Notes for This Draft: The Scope section has been edited to reflect the Committee's view that this Act should apply to all transactions in which electronic records and signatures are used, unless specifically excluded under the next Section.

Reporter's Note:

- The scope of the Act has been clarified by limiting its applicability to electronic records and adding electronic signatures. The underlying premise of this section is that this 19 Act applies to all electronic records and signatures unless specifically excluded by the next Section.
 - Notwithstanding the apparent simplicity and clarity of this revised section, the Scope of this Act remains one of the most difficult aspects in the drafting of this Act. At the January meeting it was the view of many observers and members of the Committee, that the attempt to limit scope based on the definition of commercial and governmental transactions was unworkably vague, while at the same time being overly broad (one committee member noted that under the prior draft a secretary in a bank getting a cup of coffee would be covered). In order to achieve clarity and precision, the committee narrowly voted to eliminate the restriction to commercial and governmental transactions. The approach now being taken is to delineate with specificity, in the next section, those transactions and types of transactions which will be excluded.

In order to identify the specific transactions and transaction types to be excluded, a Task Force comprised of a number of observers and the Chair and Reporter for the Committee was formed under the leadership of R. David Whittaker. This Task Force was charged with reviewing selected statutory compilations (Massachusetts and Illinois being two states where significant work had already been started) to determine the types of transactions requiring writings and manual signatures which should be excluded from the coverage of this Act.

At the May, 1997 meeting, the Drafting Committee expressed strong reservations about applying this Act to all writings and signatures, as is contemplated in the Illinois, Massachusetts and other models. These same reservations were again raised at the September Meeting. The scope section appearing in the last draft

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1 2 3 4 5 6 7 8	was an attempt to address those concerns by limiting applicability of the Act to only those records and signatures arising in the context of a commercial or governmental transaction, as therein defined. However, the view of a majority of the committee and most observers was that a specific delineation of excluded transactions in the next section was preferable to the attempt to redefine commercial and governmental transactions.
9 10 11 12 13 14	6. Section 104 will set forth specific exclusions to the coverage of this Act based on the work of the Task Force. As of the finalization of this Draft, however, that work was still in progress. It is hoped that some delineation will be available by the time of the April 17 meeting. Exclusions from the coverage of this Act will be set forth in a single section.
15	SECTION 104. EXCLUDED TRANSACTIONS SUBJECT TO OTHER LAW.
16	(a) This [Act] does not apply to the extent that its
17	application would involve a construction of a rule of law that is
18	clearly inconsistent with the manifest intent of the lawmaking
19	body or repugnant to the context of the same rule of law,
20	provided that the mere requirement that information be "in
21	writing," "written," "printed," "signed," or any other word that
22	specifies or requires the use of a particular medium of
23	presentation, communication or storage, shall not, by itself, be
24	sufficient to establish such intent.
25	(b) A transaction subject to this [Act] is also subject to:
26	(1) any applicable rules of law relating to consumer
27	protection;
28	(2) the Uniform Commercial Code as enacted in this
29	State; and

(3) [OTHER] [such other rules of law as may be

designated at the time of the enactment of this [Act]].

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1	(c) The provisions of this [Act] and a rule of law
2	referenced in subsection (a) or (b) must be construed whenever
3	reasonable as consistent with each other. If such a construction
4	is unreasonable a rule of law referenced in subsection (a) or (b)
5	governs.
6	(a) This [Act] does not apply to the following
7	<u>transactions:</u>
8	(1) Transactions governed by the Uniform Commercial
9	Code as enacted in this state, except to the extent provided in
10	Section 405;
11	(2) [List of transactions identified by ETA Task Force
12	on excluded transactions;] and
13	(3) Transactions specifically excluded by any
14	governmental agency pursuant to Part 5 of this [Act].
15	(b) This [Act] does not apply to any transaction which is
16	subject to legislation enacted after the effective date of this
17	[Act] which expressly provides that this [Act] shall not apply.
18	Source: New
19 20 21 22 23 24 25 26 27 28 29	Committee Vote: To delete "repugnancy" language, and provide that Act will apply except for specific exclusions. Committee 4 Yes - 1 No Observers 14 Yes - 1 No (with a number of abstentions) Notes to This Draft: This section has been revised to reflect the Committee's position that, unless excluded, this Act will apply to all electronic records and signatures used in any transaction. Reporter's Note: 1. The prior draft reflected comments made at the September, 1997 meeting.
30 31 32 33	2. The "repugnancy clause" set forth in the prior draft was similar to those appearing in the Mass. and Ill. Acts. The view that such a clause was too ambiguous and impossible to apply was widely shared among both the observers and members of the

1 2 3 4 5 6 7 8	Committee. Accordingly, it has been deleted, notwithstanding the view among a few observers and members of the Committee that such a safeguard remains necessary. 3. Subsection (a) will set forth specific areas of law/transaction types to which this Act will not apply. This listing will be developed from the work of the Task Force formed at the January meeting to review statutory compilations in order
9	to identify candidates for exclusion.
10	SECTION 105. VARIATION BY AGREEMENT.
11	(a) Except as otherwise provided in subsections (b) and (c),
12	$\hbar \underline{a}$ s between parties involved in generating, storing, sending,
13	receiving, or otherwise processing or using electronic records or
14	electronic signatures the provisions of this [Act] may be varied
15	by agreement., except:
16	(b) The determination of commercial reasonableness in
17	Section 109 may not be varied by agreement.
18	(c) The effect of requiring a commercially unreasonable
19	security procedure stated in Section 110 may not be varied by
20	agreement.
21	(1) the obligations of good faith, reasonableness,
22	diligence and care prescribed by this [Act] may not be disclaimed
23	by agreement but the parties may by agreement determine the
24	standards by which the performance of such obligations is to be
25	measured if such standards are not manifestly unreasonable; and
26	(2) the rules in Section 110 regarding allocations of

the words "unless otherwise agreed", or words of similar import, 25

security procedures are used in a transaction.

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loss where no security procedure or commercially unreasonable

 (\underline{db}) The presence in certain provisions of this [Act] of

- does not imply that the effect of other provisions may not be varied by agreement under subsection (a).
- 3 (<u>ec</u>) This [Act] does not require that records or signatures 4 be generated, stored, sent, received, or otherwise processed or 5 used by electronic means or in electronic form.

6 Source: UCC Section 1-102(3); Illinois Model Section 103.
7 Reporter's Note:

1. Given the principal purpose of this Act to validate and effectuate the use of electronic media, it is important to preserve the ability of the parties to establish their own requirements concerning the method of generating, storing and communicating with each other. This Act affects substantive rules of contract law in very limited ways (See especially Part 4), by giving effect to actions done electronically. Even in those cases, the parties remain free to alter the timing and effect of their communications.

The only provisions of the Act which may not be disclaimed by agreement are those establishing the method and manner of determining the commercial reasonableness of a security procedure, and determining the effect of requiring the use of a commercially unreasonable security procedure. QUESTION FOR THE COMMITTEE: Are there other provisions of this Act which should be mandatory?

2. Subsection (e) makes clear that this Act is intended to permit the use of electronic media, but does not require any person to use electronic media. For example, if Chrysler Corp. were to issue a recall of automobiles via its internet website, it would not be able to rely on this Act to validate that notice in the case of a person who never logged on to the website, or indeed, had no ability to do so. The provisions in Sections 201(c) and 301(c) permitting a person to establish reasonable forms for electronic records and signatures assumes a preexisting relationship between parties to a transaction, in which one party places reasonable limits on the records and signatures, electronic or otherwise, which will be acceptable to it.

SECTION 106. APPLICATION AND CONSTRUCTION. This [Act] must be liberally construed and applied consistently with commercially reasonable practices under the circumstances and to promote its underlying purposes and policies.

Source: UCC Section 1-102

1	Committee Vote: To delete the word underlying Committee 2 Yes -1
2	No Observers 14 Yes - 2 No
3	Reporter's Note: The following commentary, derived from the
4	Illinois Electronic Commerce Security Act Section 102, has been
5	moved from the text of former Section 103 in the August Draft.
6	The purposes and policies of this Act are
7	a) to facilitate and promote commerce and governmental
8	transactions by validating and authorizing the use of electronic
9	records and electronic signatures;
10	b) to eliminate barriers to electronic commerce and
11	governmental transactions resulting from uncertainties relating
12	to writing and signature requirements;
13	c) to simplify, clarify and modernize the law governing
14	commerce and governmental transactions through the use of
15	electronic means;
16	d) to permit the continued expansion of commercial and
17	governmental electronic practices through custom, usage and
18	agreement of the parties;
19	e) to promote uniformity of the law among the states
20	(and worldwide) relating to the use of electronic and similar
21	
	technological means of effecting and performing commercial and
22	governmental transactions;
23	f) to promote public confidence in the validity,
24	integrity and reliability of electronic commerce and governmental
25	transactions; and
26	g) to promote the development of the legal and business
27	infrastructure necessary to implement electronic commerce and
28	governmental transactions.
29	SECTION 107. COURSE OF PERFORMANCE, COURSE OF DEALING, AND
30	USAGE OF TRADE.
31	(a) A course of performance is a sequence of conduct
32	between the parties to a particular transaction which exists if:
33	(1) the agreement of the parties with respect to
34	the transaction involves repeated occasions for performance by a
2.5	
35	party;
26	(2) that makes a section as a s
36	(2) that party performs on one or more occasions;

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and

	(3)	the ot	her par	ty, with	i knowledge	of th	e nature
of the perfo	rmance	and opp	ortunit	y for ok	ojection to	it, a	ccepts
the performa	ince or	acquies	ces to	it with	out objecti	on.	

- (b) A course of dealing is a sequence of previous conduct between the parties to a particular transaction which is fairly to be regarded as establishing a common basis of understanding for interpreting their expressions and other conduct.
- (c) A usage of trade is any practice or method of dealing having such regularity of observance in a place, vocation, or trade as to justify an expectation that it will be observed with respect to the transaction in question. The existence and scope of the usage are to be proved as facts. If it is established that the usage is embodied in a trade code or similar record, the interpretation of the record is a question of law.
- (d) A course of performance or course of dealing between the parties or usage of trade in the vocation or trade in which they are engaged or of which they are or should be aware is relevant in ascertaining the meaning of the parties' agreement, may give particular meaning to specific terms of the agreement, and may supplement or qualify the terms of the agreement. A usage of trade applicable where only part of the performance under the agreement is to occur may be so utilized as to that part of the performance.

1	(e) The express terms of an agreement [including terms
2	to which a party has manifested assent] and any applicable course
3	of performance, course of dealing, or usage of trade must be
4	construed wherever reasonable as consistent with each other. If
5	such a construction is unreasonable:
6	(1) express terms prevail over course of
7	performance, course of dealing, and usage of trade;
8	(2) course of performance prevails over course of
9	dealing and usage of trade; and
10	(3) course of dealing prevails over usage of
11	trade.
12	(f) Evidence of a relevant usage of trade offered by
13	one party is not admissible unless that party has given the other
14	party such notice as the court finds sufficient to prevent unfair
15	surprise to the other party.
16 17 18 19 20	Source: Article 1 Draft Section 1-304. Committee Vote: To delete this section Committee 5 Yes - 1 No Observers 16 Yes - 0 No Reporter's Note: The Committee voted to delete this section consistent with its policy determination that this Act should be
21 22 23 24 25 26 27 28 29	as strictly procedural in its effect as possible. The view of the Committee was that the question of usage evidence as informing the substance of an agreement was an issue best left to the underlying substantive law of the transaction. Since the overarching theme of this Act is simply to effectuate an alternative means to consummate and perform transactions, the construction of the agreements reached in those transactions is to be left to the underlying law applicable to the particular transaction.
30 31 32 33 34	The commentary will make clear that the absence of a provision relating to the employment of usage evidence as a means of construction is in no way intended to remove such considerations when otherwise relevant under the substantive law applicable to the transaction.

1	[SECTION 1078	3. MANIFESTING	ASSENT.	<u>In a</u>	transaction	governed	by
2	this [Act], t	the following	rules appl	. V :			

- (a) A person or electronic agent manifests assent to a record or term in a record if, acting with knowledge of, the terms or after having an opportunity to review, the record or term under Section 109, it:
 - (1) signs the record or term; or

- (2) engages in other affirmative conduct or operations that the record clearly provides, or the circumstances, including the terms of the record, clearly indicate, will constitute acceptance, and the person or electronic agent had an opportunity to decline to engage in the conduct or operations. of the record or term; and
- (2) had an opportunity to decline to sign the record or term or engage in the conduct.
 - (b) The $m\underline{M}$ ere retention of information or a record without objection is not a manifestation of assent.
 - (c) If assent to a particular term in addition to assent to a record is required by the substantive rules of law governing the transaction, a person's conduct or electronic agent does not manifest assent to that the term unless there was an opportunity to review the term and the signature or conduct manifestation of assent relates specifically to the term.
 - (d) A manifestation of assent may be proved in any manner, including by showing that a procedure existed by which a person or an electronic agent must have engaged in conduct or operations

1 that manifesteds assent to the record or term in order to proceed

2 further in the transaction.]

Contracts Section 3.

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Source: Article 2B Draft Section 2B-111. Notes to This Draft: Edited to more closely track Article 2B and to establish the concept of manifesting assent as a procedural mechanism for demonstrating agreement to a record or term. Reporter's Note: At the January meeting express reference to manifestation of assent was removed from the substantive provisions of this Act in Sections 302 and 401. The section has been retained in brackets for further discussion in light of comment at the January meeting that it may be appropriate to retain the section as a procedural provision. The idea is to retain the concept in a way which indicates "how," in an electronic environment, parties may show manifestation of assent to a record or term. In light of the Committee's desire to leave the determination of what amounts to agreement to other, substantive law, it seems appropriate to establish a method outlining the manner in which parties can establish the "manifestation of mutual assent" referenced in Restatement 2d

This section, together with the following section on "opportunity to review," provides a framework for the manner in which parties may establish agreement to a record or term when that agreement is undertaken electronically. Because of the nature of electronic media, it may well be the case that a party does not deal with a human being on the other side of a transaction.

In an electronic environment where computers are often preprogrammed and operate without human review of the operations in any particular, discreet transaction, it is not always the case that two humans have reached a "bargain in fact," i.e., a "meeting of the minds." Rather, the agreement is often the result of one party or its electronic agent manifesting assent to terms or records presented to it on a "take it or leave it (i.e., exit)" basis, similar to the presentation of a standard form document in the paper environment.

The situations where parties participate in detailed negotiations leading to the formation of an integrated contract setting forth all the terms to which both parties have agreed are largely limited to transactions involving large amounts. Even outside the electronic environment, the use of pre-printed standard forms has supplanted detailed negotiations in many small amount transactions. Accordingly the concept of manifesting assent to a record or terms of a record has supplemented the notion of actual agreement in determining that to which the parties have agreed to be bound (See Restatement (Second) Contracts Section 211, UCC Section 2-207).

Even in an electronic environment it remains possible to negotiate to agreement. In such a case, if parties engage in email correspondence which results in a classic offer and

acceptance of the terms (and only the terms) set forth in the correspondence, the electronic signatures appended to the e-mail messages serve to authenticate the records and result in contract formation. This is the case since an electronic signature, by definition, is made with intent to authenticate the record.

Contrasted with such a negotiated electronic contract is the situation where one calls up a provider on the Internet. person determines to purchase the goods or services offered and is walked through a series of displayed buttons requesting the purchaser to agree to certain terms and conditions in order to obtain the goods and services. With each click on screen, the purchaser is indicating assent to that term in order to obtain the desired results. So long as the action of clicking in each case relates to a discreet term, or follows the full presentation of all terms, the actions of the purchaser can be said to clearly indicate assent to the terms available for review. As with the exchange of standard paper forms, there is no requirement that the terms be read before the on screen click occurs, so long as they were available to be read. Indeed, in such a scenario the problem of additional and conflicting terms which have so confused courts in the battle of the forms is not present.

A provision dealing with manifesting assent is particularly useful in the electronic environment where the real possibility of a contract being formed by two machines exists. Although Sections 302 and 401 no longer expressly refer to manifestation of assent, the concept remains applicable in determining when a signature occurs and what the terms of an agreement are when contracts or signatures result from the operations of electronic agents, either between electronic agents or when interacting with a human.

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[SECTION 1089. OPPORTUNITY TO REVIEW. A person or electronic agent has an opportunity to review a record or term only if it the record or term is made available in a manner that:

- (a) which would calls it to the attention of the a reasonable person and permits review; or
- (b) in the case of an electronic agent, would of its terms

 or enables a reasonably configured the electronic agent to react

 to it.1
- 40 **Source:** Article 2B Draft Section 2B-112(a).
- Notes to This Draft: Edited to more closely parallel Article 2B.
- Reporter's Note: See Reporter's Note to Section 107, Manifesting Assent, supra.

2	PROCEDURE; COMMERCIALLY UNREASONABLE SECURITY PROCEDURE; NO
3	SECURITY PROCEDURE.
4	[ALTERNATIVE 1]
5	(a) The commercial reasonableness of a security procedure
6	is determined by the court <u>as a matter of law</u> in light of the
7	purposes of the procedure and the circumstances at the time the
8	parties agreed to or adopted the procedure including the nature
9	of the transaction, sophistication of the parties, volume of
10	similar transactions engaged in by either or both of the parties,
11	availability of alternatives offered to but rejected by a party,
12	cost of alternative procedures, and procedures in general use for
13	similar transactions.
14	(b) A security procedure established by law or regulation
15	shall be determined to be <u>is</u> commercially reasonable for the
16	purposes for which it was established.
17	[ALTERNATIVE 2]
18	(a) The commercial reasonableness of a security procedure is
19	determined as a matter of law.
20	(b) In making a determination about the commercial
21	reasonableness of a security procedure, the following rules
22	<pre>apply:</pre>
23	(1) A security procedure established by law or
24	regulation is commercially reasonable for the purposes for which
25	<u>it was established.</u>

SECTION $1\underline{09}10$. DETERMINATION OF COMMERCIALLY REASONABLE SECURITY

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1	(2) Except as otherwise provided in subsection (b)(1),
2	commercial reasonableness is determined in light of the purposes
3	of the procedure and the commercial circumstances at the time the
4	parties agree to or adopt the procedure.
5	(3) A commercially reasonable security procedure may
6	require the use of any security devices that are reasonable under
7	the circumstances.
8	(b) If a loss occurs because a person complies with a
9	security procedure that was not commercially reasonable, the
10	person that required use of the commercially unreasonable
11	security procedure bears the loss unless it disclosed the nature
12	of the risk to the other person and offered commercially
13	reasonable alternatives that the person rejected. The liability
14	of the person that required use of the commercially unreasonable
15	security procedure is limited to losses that could not have been
16	prevented by the exercise of reasonable care by the other person.
17	(c) Except as otherwise provided in subsection (b), Section
18	202, Section 203, or Section 302, if a loss occurs because no
19	security procedure was used, the person relying on an electronic
20	record or electronic signature as between the two parties, the
21	party who relied bears the loss.

Source: Alternative 1 - UETA 110(a and b)(Nov. 25, 1997 Draft) and Illinois Model Section 303(a); Alternative 2 - Article 2B

24 Draft Section 2B-114.

Reporter's Note: This section separates the issue of the commercial reasonableness of a security procedure from the issue of the effect of imposition of a commercially unreasonable security procedure in the next section. This permits exclusion

of the terms of this section from the general rule under this draft that the terms of this Act may be varied by agreement (Section 105).

Two alternatives are provided for the Committee's consideration. Alternative 1 is an edit of prior section 110(a). This alternative more fully sets forth the considerations which will be taken into account in determining the commercial reasonableness of a security procedure. Alternative 2 comes from the March, 1998 draft of Article 2B. The substance of subsection (b)(3) is included in the last sentence of the definition of a security procedure in UETA Section 102(a)(19).

In response to comments expressing concern about assigning this determination, possibly viewed as a fact question reserved to the finder of fact, "to the court", both alternatives provide that the determination of commercial reasonableness is made as "a matter of law", rather than as a decision "by the court."

SECTION 110. EFFECT OF REQUIRING A COMMERCIALLY UNREASONABLE

SECURITY PROCEDURE.

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19 [ALTERNATIVE 1]

20 (a) If a person (the "requiring party") requires, as a 21 condition of entering into a transaction with another person, 22 that the parties use a security procedure which is not 23 commercially reasonable, the following rules apply: 24 (1) If the other party reasonably relies to its 25 detriment on an electronic record or electronic signature 26 purporting to be that of the requiring party, the requiring party 27 is estopped to deny the source or informational integrity of the electronic record or authenticity of the electronic signature to 28 29 which the security procedure was applied; and 30 (2) If the requiring party receives an electronic 31 record or electronic signature purporting to be that of the other

party, the requiring party will not be entitled to the benefit of

any presumption which my arise under Sections 202, 203 or 302.

1	(b) A person does not require a security procedure under
2	subsection (a) if it makes commercially reasonable alternative
3	security procedures available to the other person.
4	[ALTERNATIVE 2]
5	(a) Subject to subsection (b) and Section 202, as between
6	parties to a security procedure, a party that requires use of a
7	security procedure that is not commercially reasonable is
8	responsible for losses caused by reasonable reliance on the
9	procedure in a transaction for which the procedure was required.
10	(b) The responsibility of the party that requires use of the
11	commercially unreasonable security procedure is limited to losses
12	in the nature of reliance and restitution. The party's
13	responsibility does not allow a double recovery for the same loss
14	and does not extend to:
15	(1) loss of expected benefit, including consequential
16	damages;
17	(2) losses that could have been prevented by the
18	exercise of reasonable care by the other party; or
19	(3) a loss, the risk of which was assumed by the other
20	party.
21	(c) A person does not require a procedure under subsection
22	(a) if it makes commercially reasonable alternative procedures
23	available to the other person.
24 25 26 27 28 29	Source: Alternatives 1 and 2 are both new based on consultation between the Article 2B Reporter and Committee Chair and the UETA Reporter and Committee Chair. Alternative 1 was drafted by the UETA Reporter in consideration of the discussions regarding former section 110(b) at the January meeting. Alternative 2 is from the March, 1998 Draft of Article 2B.

Reporter's Note:

General Policy: This section is intended to impose liability and create strong disincentives for the imposition of the use of security procedures which are not commercially reasonable. This section, under either alternative, is intended to apply only in the case where the requiring party is in a position to, and in fact does impose the use of the commercially unreasonable procedure. As noted in subsection (3), if the parties negotiate or jointly select a procedure, or have commercially reasonable alternatives available, this section would have no application. In such a case, or indeed in cases where no security procedure is used, resulting losses are allocated in accordance with the applicable substantive law outside this Act.

At the January meeting concern was raised that the liability of a party for imposition of a commercially unreasonable security procedure was predicated on the imposer failing to disclose risks and offer alternatives. Under subsection (c) of each alternative, by offering commercially reasonable alternatives, the imposer may avoid operation of this section.

Alternative 1 - Structure.

The language in subsection (a) is intended to make clear that there must be knowledge on the part of the party upon whom the procedure is imposed that the imposer mandates the particular procedure. An imposition falling within this section requires agreement by both parties with knowledge of the procedure, rather than mere adoption by using the procedure. If the imposing party offers alternatives, there would actually be no imposition, and this section would not apply (Subsection(c)).

Where a person requires, as a condition of doing business, a security procedure which cannot be shown to be commercially reasonable, an imposition has occurred and losses resulting from the other party's detrimental reliance will be borne by the requiring person under this section. Alternative 1 places the loss on the requiring party through the use of estoppel and denial of the benefits of presumptions created by this Act. This structure is intended to avoid the creation of substantive allocation rules regarding the types of losses which may result. While preventing an imposing party from any benefits resulting from reliance on a commercially unreasonable procedure, this section leaves to the underlying substantive law applicable to the particular transaction, the actual determination of the type, amount and extent of recoverable losses. The following illustrations suggest the manner of the operation of Alternative 1.

The easy cases - The requiring party is the recipient of the record:

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Illustration 1. General Motors requires all franchisees to agree that any order received electronically and bearing only the franchisee's E-mail address as an identifier shall be attributable to, and binding upon, the franchisee identified. Since the franchisees are required by GM to do business in this way, this procedure would be a "required" procedure under this section.

Illustration 2. Same facts as Illustration 1. Through no fault of franchisee, bad guy sends an electronic record, showing franchisee's E-mail as the identifier, ordering \$100,000 of merchandise from GM to be shipped to the bad guy. The procedure would not be commercially reasonable. If the underlying agreement as to the procedure were controlling, the franchisee would bear the loss, since the electronic record would be attributable to the franchisee. Since this is an imposed, commercially unreasonable procedure, the \$100,000 loss arising directly from the transaction would be suffered by GM because GM would be unable to establish that the order was attributable to the franchisee under Section 202.

Illustration 3. Same facts as Illustration 2. If the bad guy is an employee of the franchisee the result, in this case, should be no different. The procedure is so open that the franchisee would have to somehow "lock up" all its computers to deny the employee the ability to send an order on behalf of the franchisee. Unless GM could establish attribution in fact under Section 202(a)(1) [or lack of reasonable care by franchisee under Section 202(b)], GM would bear the loss.

Illustration 4. Franchisee places a \$100,000 order with GM. A bad guy hacks into GM's computer and learns of the order and the timing and method of shipment. The bad guy intercepts the shipment and steals it. While GM may be liable for negligence in the custody of its order records, this section is not applicable. Although there was a commercially unreasonable procedure, the loss in this case was not caused by the laxity of the procedure. If GM is able to prove that the order came from the franchisee (unaided by the presumption in 202 because the procedure is not commercially reasonable), the loss would be determined under Article 2 or general contract principles.

The more difficult cases - The requiring party is the sender of the record:

Illustration 5. GM requires all of its suppliers to do business using only GM's e-mail address as the identifier. Bad guy sends an e-mail showing GM's address as the identifier ordering \$50,000 of parts. Supplier reasonably

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relies on the e-mail and ships the goods. Bad guy intervenes and takes the goods. In Supplier's claim for payment, GM will be estopped to deny that it sent the order. Without the ability to deny that the order was from GM, supplier may hold GM liable as though the contract had been formed, upon proof of supplier's performance, etc, under the substantive law of sales.

Illustration 6. Same procedure as in Illustration 5. GM actually sends order and supplier ships. As in Illustration 4, Bad guy learns of the shipment and intervenes and steals the shipment. Here the only question is risk of loss under applicable sales and contract law.

Illustration 7. In this case, GM has not required, as a condition of doing business, the use of any particular procedure. However, over a period of time, GM has placed and supplier has accepted purchase orders over open e-mail. Bad Guy sends a purchase order, purporting to be from GM, over open e-mail, and the supplier accepts and ships. This section does not apply. There has been no imposition by GM. Supplier is left to proving that the e-mail did come from GM, and upon failure to so prove, will bear any loss.

In a consumer context the general result will be that a vendor receiving an order will bear the risk that the order did not come from the purported sender. If a commercially reasonable security procedure is used by the vendor, the consumer would likely adopt the procedure in order to complete the transaction and the vendor would receive the benefit of the presumptions under this act. The following are somewhat atypical illustrations:

Illustration 8. Buyer writes e-mail to internet vendor indicating that the only way it will place an order is through use of a particular security procedure. The vendor writes back agreeing to the procedure. The procedure proves commercially unreasonable. In this case the buyer has imposed the procedure and will be estopped to deny the source or content of the electronic record. The result will be that the vendor may be able to enforce the terms of the record received upon proof of its content and the vendor's compliance with other requirements under sales or contract law.

Illustration 9. Buyer logs on to an internet vendor. In placing the order it uses a commercially unreasonable security procedure. Vendor has not agreed to the procedure but does adopt it by processing the order. This section does not apply. No presumptions attach since the procedure was commercially unreasonable, and the parties are left to deny or prove up the resulting contract.

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As indicated by the illustrations, the question of the extent of damage recovery by any party is left entirely to other law. The effect of a commercially unreasonable procedure that is imposed by one party is simply to raise estoppel or deny presumptions. After application of an estoppel, the transaction is proven or denied by other means and the resulting liability determined pursuant to other substantive law.

Alternative 2 adopts a different approach to the problems raised by requiring commercially unreasonable procedures. It addresses the liability of the requiring party and limits the extent of the losses covered. The following is the Article 2B Reporter's Notes explaining the operation of Alternative 2.

ARTICLE B REPORTER'S NOTES:

Notes to this Draft:

This Section was revised based on consultation with the Electronic Transactions Reporter and Committee chair and in light of the discussion of the issues during the February 1998 meeting.

General Notes:

- 1. General Policy and Scope. This section deals with allocation of loss in cases where one party (either the licensor or the licensee) requires use of an attribution procedure that is commercially unreasonable and use of that procedure causes a loss either because of undetected errors in transmissions or records or because of third party activity in the nature of fraud or otherwise. The Section does not cover all cases in which such loss might occur, but deals only with circumstances in which a party is in a position to and does in fact require use of the commercially unreasonable procedure. A procedure negotiated or jointly selected by the parties, selected from among alternatives that include a commercially reasonable option, or mutually designed, does not fall within this Section. Responsibility for loss in such cases lies outside this article.
- a. Reliance Loss. The basic premise is that, all things being otherwise equal, loss in the nature of reliance or restitution should fall on the party that required use of the procedure that caused the loss. This is a contract statute, not a general regulatory or tort liability statute and, thus, the losses to which it applies are limited to situations in which loss results from use of the procedure in a transaction to which the requirement applies.
- b. Transactions Not Affected. Additionally, since this entire article deals with licensing and related transactions, the losses are confined to such transactions. The Section does not apply to credit card, funds transfer or other types of transactions in which attribution procedures are used, but which fall outside the scope of Article B and, in many cases, are at least partially regulated by federal or other state laws. Thus, for example, use of an

identifying code for a credit card payment is not governed by this section. However, if a contracting party requires that the other party use a credit card number as an attribution procedure, credit card law applies as to the payment transaction, but as to the contractual relationship, Section B-115 applies if the procedure is regarded as commercially reasonable and this Section applies if the procedure was "required" and is commercially unreasonable.

Relationship to Reasonable Procedures. loss allocation principle expressed in this Section contrasts to the principles stated in Section B-116 and B-117. Those sections provide the parties with presumptions about the authenticity and accuracy of the electronic records to which the procedures are applied. The presumptions are potentially significant in litigation and planning transactions. As expressed there, the presumptions arise only if the procedure is commercially reasonable. Thus, a commercially reasonable procedure vitiates the presumption, leaving the parties to general proof of content and source of the record. In addition, if the procedure comes within this section, the use of an unreasonable procedure may have an impact on loss allocation. 2.Party Responsible. The section refers to the person that required the procedure as being responsible for the loss. In modern commerce, the person making such requirement is in some cases the licensor and in some cases the licensee. The principle used here applies in either direction. procedure must, however, be one that the parties have agreed to or adopted. That elements is implicit in the definition of what constitutes an "attribution procedure."

The Section does not necessarily create an affirmative right of recovery. In some cases, the Section merely denies the relying party an ability to recover from the other person. Thus, for example, a licensor acting pursuant to a commercially unreasonable attribution procedure, might ship information product to a third party that used the inadequacies of the procedure to dupe the licensor into believing that the party requesting shipment was the named licensee. If the licensor had required the procedure and the licensee had agreed to it for transactions of this type, this Section allows the licensee to resist any effort by the licensor to charge the licensee for the loss or the contract price. The licensor remains responsible. On the other hand, if the licensee had required the procedure and the licensor agreed to it, the licensor may recover against the licensee for the losses in the nature of reliance. It cannot, of course, in this case seek recovery under contract theory since the licensee did not make the purchase request..

3. Type of Loss, The loss to which this Section applies is limited in several ways.

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The loss must, initially, come from use of the procedure. This excludes losses that flow from other, perhaps parallel causes. Thus, if an identifier is unreasonable, but the party actually did engage in the transaction, but suffered loss due to a breach of contract, this section does not apply. The losses addressed here are in the nature of loss from misattribution of who sent a message, tampering with the content of a message, or errors caused by transmission or other factors.

Second, the Section only applies to losses incurred in transactions to which the requirement and use of the procedure between the parties applies. It does not address the difficult problem of liability for the situation where a third party wrongdoer obtains social security or other important identifies of an innocent third party and uses them to fraudulently obtain goods and services from numerous vendors. That issue lies in the realm of tort law, criminal law, and other forms of regulation that are just now beginning to develop. Of course, to the extent that these other sources of law preempt or preclude operation of this section, ordinary preemption rules apply.

Third, the losses do not include lost benefits of the transactional relationship. They are limited to reliance and restitution recovery. In some cases, however, the existence and non-performance of a contractual relationship may allow expectations recovery. The basic premise here, however, is limited to avoiding a shift of losses through a required procedure that fails to protect the interests of the parties.

The emphasis on reliance recovery, of course, places further limitations on the recovery. These are stated in subsection (b)(2) based on a lack of reasonable care and an assumption of risk.

- 4. Illustrations. The following suggest some applications of this Section.
- False Identity Cases: No Contract. In many cases where a loss is suffered by a party because a third party fraudulently used an attribution identifier and order information claiming to the appropriate party, this Section produces results that are parallel to the results that could be inferred under other attribution rules of this Article. Illustration 1. S (the vendor) required and M agreed to a procedure for identifying M in placing orders with S. misuses this procedure and, purporting to be M, obtains a \$10,000 electronic encyclopedia from S. S, believing that M placed the order, seeks the license fee from M. Under the general attribution sections, if the procedure is not commercially reasonable, there is no presumption that the sender was M and, since M can prove it was not the sender, it has no liability. Under this section, the required attribution procedure caused a loss, but S is responsible for that loss. It cannot shift loss to M.

In some false identity cases, however, the party demanding the use of the attribution procedure may be responsible for affirmative losses.

Illustration 2. M (the purchaser) requires L to use a procedure under which M identifies itself when placing orders with L. Thief uses the procedure to fraudulently obtain a \$10,000 software system from L. Under this Section, since M required use of the procedure and it was commercially unreasonable, the loss suffered may be recovered from M. The amount of loss is measured by reliance, not lost profit. In essence, the recovery is the cost (not license price) of the software shipped to the thief plus related expenses.

- b. True Contract: Errors in Performance. In cases where an actual contract exists between the parties and the error or fraud allowed by the unreasonable attribution procedure relates to performance, it will often be the case that contract remedies provide the primary recovery and, under the principle that precludes double recovery, the reliance loss allocation of this does not create affirmative recovery. It nevertheless confirms the placement of ultimate losses in such cases.
- Illustration 3. L (licensor) and M (licensee) agree to a license for a \$10,000 commercial software license. L requires M to agree to a procedure for sending instructions as to where to transmit the software. M pays the license fee. A third party intervenes and causes misdirection of the software copy. M demands its software. Under this Section, L would bear responsibility for reliance or restitution loss. M can recover the fee it paid. More generally, however, M can enforce the unperformed contract and, in the event of breach, can recover contract damages, including consequential damages, as appropriate.
- Illustration 4. In the Illustration 3, assume that M did in fact direct the transmission of the software, but now denies that it did so. If the procedure had been reasonable, L would have the advantage of a presumption of attribution of the message. Since it was not, L must prove that M did send the message without the benefit of a presumption. If it can do so, it can enforce the contract. Under this section, M suffered no loss due to the attribution procedure.
- c. Errors in the Offer and Acceptance. The problem of garbled, misrecorded or otherwise mistaken offers and acceptances is one of long-standing in commercial practice. This Section provides a method of allocating loss in such cases based on the reasonableness of the required procedure and independent of asking arcane questions about what terms were accepted and when,.

Illustration 4[5]. M requires that L use an unreasonable attribution procedure for transmitting orders and acceptances. L agrees and adopts the procedure. It places

an order for ten software widgets. Because the procedure is flawed, the message arrives at M requesting 100 software widgets. M ships on that basis. L desires to ship the ninety excess widgets back to M and not pay. One could argue that no contract exists because of mistake. Alternatively, a contract might be formed on the offer as sent or as received. Case law support exists for either result. This section, however, focuses on reliance loss. Either L or M could be said to suffer loss because of reliance on the procedure. Since M required it, M bears responsibility for the loss. It cannot demand the price for the ninety widgets unless, of course, L decides to accept and retain them. If L had required the use of the procedure, it would be responsible for reliance losses and restitution.

END OF ARTICLE B REPORTER NOTES

In the event that a transaction is accomplished without any security procedure, this Act, while validating the electronic records and signatures implemented in transactions falling within the Scope of this Act, does not address whether such records and signatures are otherwise legally binding or effective.

- SECTION 111. OBLIGATION OF GOOD FAITH. There is an obligation to
- 23 act in good faith in the formation, performance, and enforcement
- 24 of every transaction and duty within the scope of this [Act].
- 25 **Source:** Revised Article 1 Section 1-305 (Sept. 1997 Draft)
- 26 Committee Vote: To delete this section Committee Yes 6 No 1
- 27 Observers Yes 7 No 5

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- 28 Reporter's Note: This section, added in response to comments at
- 29 the September Meeting, was deleted by the Committee at the
- January meeting. The section was viewed as creating substantive
- 31 requirements best left to the substantive law of the transaction.

32 **SECTION 112. GENERAL PRINCIPLES OF LAW APPLICABLE.**

- 33 Unless displaced by the particular provisions of this [Act],
 34 the principles of law and equity, including the law merchant and
 35 the law relating to contract, principal and agent, estoppel,
 36 fraud, misrepresentation, duress, coercion, mistake, bankruptcy
- 37 and other validating and invalidating cause shall supplement its

38 provisions.

1	Source: UCC Section 1-103
2	Committee Vote: To delete this section and incorporate its
3	substance as a subsection to Section 103 Scope. Unanimous
4	approval by both the Committee and Observers.
5	Reporter's Note: This section was added based on comments at the
6	September Meeting. The substance of this section has been
7	incorporated as Subsection 103(b). The language used in 103(b)
8	is the new language from Revised Article 1. The Committee moved
9	this provision to make clear that the scope of this Act is
0	limited and that the general principles of substantive law are
1	to be applied to transactions governed by this act.

12 **PART 2**

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13 ELECTRONIC RECORDS GENERALLY

SECTION 201. LEGAL RECOGNITION OF ELECTRONIC RECORDS.

- (a) A record may not be denied legal effect, validity, or enforceability solely because it is in the form of an electronic record.
- 18 (b) If a rule of law requires a record to be in writing, or
 19 provides consequences if it is not, an electronic record
 20 satisfies that rule.
- 21 (c) <u>In any transaction, a</u> A person may establish reasonable 22 requirements regarding the type of records which will be 23 acceptable to it.

Source: Sections 201 and 202 from UETA August Draft; Uncitral Model Articles 5 and 6; Illinois Model Sections 201 and 202.

Reporter's Note:

in the November, 1997 Draft. Part 2 now deals with those provisions relating to the validity, effect, and use of electronic records, Part 3 contains those sections dealing with the validity and effect of electronic signatures, and Part 4 reflects general contract provisions, and provisions dealing with the effect of both electronic records and electronic signatures.

Part 2 reflects the fundamental reorganization of this Act

Under different provisions of substantive law the legal effect and enforceability of an electronic record may be separate from

and enforceability of an electronic record may be separate from the issue of whether the record contains a signature. For

example, where notice must be given as part of a contractual

- obligation, the effectiveness of the notice will turn on whether the party provided the notice regardless of whether the notice was signed. An electronic record attributed to a party under Section 202 would suffice in that case, notwithstanding that it may not contain a signature.
- 6 2. This section reflects a merger of former Sections 201 and 202 from the August Draft.
- 8 Subsection (a) establishes the fundamental premise of this 9 Act: That the form in which a record is generated, presented, communicated or stored may not be the only reason to deny the 10 record legal recognition. On the other hand, subsection (a) 11 12 should not be interpreted as establishing the legal 13 effectiveness, validity or enforceability of any given record. Where a rule of law requires that the record contain minimum 14 15 substantive content, the legal effect, validity or enforceability 16 will depend on whether the record meets the substantive 17 requirements. However, the fact that the information is set 18 forth in an electronic, as opposed to paper record, is 19 irrelevant.
- 4. Subsection (b) is a particularized application of Subsection (a). Its purpose is to validate and effectuate electronic records as the equivalent of writings, subject to all of the rules applicable to the efficacy of a writing, except as such other rules are modified by the more specific provisions of this Act.
 - Illustration 1: A sends the following e-mail to B: "I hereby offer to buy widgets from you, delivery next Tuesday. /s/ A." B responds with the following e-mail: "I accept your offer to buy widgets for delivery next Tuesday. /s/ B." The e-mails may not be denied evidentiary effect solely because they are electronic. In addition, the e-mails do qualify as records under the Statute of Frauds. However, because there is no quantity stated in either record, the parties' agreement would be unenforceable under existing Section 2-201(1).
 - Illustration 2: A sends the following e-mail to B: "I hereby offer to buy 100 widgets for \$1000, delivery next Tuesday. /s/ A." B responds with the following e-mail: "I accept your offer to purchase 100 widgets for \$1000, delivery next Tuesday. /s/ B." In this case the analysis is the same as in Illustration 1 except that here the records otherwise satisfy the requirements of CC Section 2-201(1). The transaction may not be denied legal effect solely because there is not a pen and ink "writing."

The purpose of the Section is to validate electronic records in the face of legal requirements for paper writings. Where no

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- legal requirement of a writing is implicated, electronic records 1 2 are subject to the same proof issues as any other evidence.
- 3 Subsection (c) is a particularized application of Section 105, to make clear that parties retain control in determining the 4 5

types of records to be used and accepted in any given

- transaction. For example, in the Chrysler recall hypothetical 6
- referred to in Note 2 to Section 105, although Chrysler cannot 7
- unilaterally require recall notices to be effective under this 8
- Act, it may indicate the method of recall in a purchase agreement 9
- 10 with a customer. If the customer objects, the customer would
- 11 have the right to establish reasonable requirements for such
- 12 notices.

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SECTION 202. ATTRIBUTION OF ELECTRONIC RECORD TO A PARTY.

- As between the parties, aAn electronic record is attributable to a party person if:
- (1) it was in fact the action of that party person, its agenta person authorized by it, or its the person's electronic agent;
 - the other party person, in good faith and acting (2) in compliance with a commercially reasonable security procedure for identifying the party the person to which the electronic record is sought to be attributed, reasonably concluded that it was the action of the other party person, its agenta person authorized by it, or its the person's electronic agent.; or
 - (bc) Attribution of an electronic record to a party person under subsection (a)(2) has the effect provided for by the agreement regarding the security procedure and, in the absence of terms about such effect, creates a presumption that the electronic record was that of the party person to which it is attributed.

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1	[(\underline{c} 3) Even if an electronic record is not attributable to a
2	person under subsection (a), a person ("responsible person") is
3	liable for losses in the nature of reliance, if the losses occur
4	because the electronic record:
5	(1) the responsible person failed to exercise
6	reasonable care;
7	(2) the other person ("relying person") reasonably
8	relied on the belief that the responsible person was the source
9	of the electronic record;
10	(3) that reliance (A) resulted from acts of a third
11	person that obtained access to a security procedure, access
12	numbers, codes, computer programs, or the like, from a source
13	under the control of the party responsible person; and
14	(4) the use of the access numbers, codes, computer
15	programs or the like createding the appearance that the
16	electronic record came from the at party responsible person.] $_{7}$
17	(B) the access occurred under circumstances
18	constituting a failure to exercise reasonable care by the party
19	person; and
20	(C) the other party person reasonably relied to
21	its detriment on the apparent source of the electronic record.
22	(b) In a case governed by subsection (a)(3), the following
23	rules apply:
24	(1) The relying party has the burden of proving
25	reasonable reliance, and the party to which the electronic record
26	is to be attributed has the burden of proving reasonable care.

- 2 comply with a security procedure is not reasonable unless.
- 3 authorized by an individual representing the party to which the
- 4 electronic record is to be attributed.

- 5 Source: Article B Draft Section B-116.
 - Notes to this Draft: Edited for clarity and to more closely track Article 2B Section 2B-115.

Reporter's Note: This section follows Article 2B and sets forth risk allocation rules in the context of record attribution. The section sets forth rules establishing the circumstances under which a party will be bound by (be attributable for) an electronic record sent to another party.

Subsection (a)(1) relies on general agency law, including the new concept of electronic agency, to bind the sender. Subsection (a)(2) deals with allocations of risk where security procedures are involved and properly implemented. Under subsection (a)(2) an electronic record will be attributed to the sender if the recipient complied, in good faith, with a commercially reasonable security procedure which confirmed the source of the electronic record.

Subsection (b) provides a rebuttable presumption of attribution where a security procedure is properly used. This presumption is appropriate because of the definition of security procedure which is now limited to procedures adopted by the parties or established by law, and under this section, which are also commercially reasonable. As Section 110 makes clear, where a security procedure is shown to be commercially unreasonable, the presumption will not apply and the loss generally will fall on the relying party. Subsection (b) also makes clear that the parties may alter the effect of the presumption, and provides a default rule where the parties do not provide otherwise.

Subsection (c) is part of the March Draft of Article 2B but has been bracketed here for the Committee's consideration. In substance it appeared as subsection (a)(3) in the prior drafts of both this act and Article 2B, with the result that in the case of negligence an electronic record could be attributed to, and therefore binding upon, a party. The substance of this subsection does not truly address the issue of attribution and has been properly set off as a separate basis for liability. It is more in the nature of a direct loss allocation provision rather than an attribution provision. Under subsection (c) when the negligence of one party, together with reasonable reliance by the other party caused by the negligence, results in loss to the relying party, the negligent party bears losses "in the nature of reliance." Like Alternative 2 to Section 110 regarding the effect of requiring a commercially unreasonable security procedure, this section implicates substantive loss allocation

determinations.	Considering the	e Committee's apparent	desire to
avoid such subst	antive effects,	it may be possible to	redraft
this subsection	along the lines	of Alternative 1 to Se	ection 110.

SECTION 203. DETECTION OF CHANGES AND ERRORS. (a) If through a the parties act in compliance with a commercially reasonable security procedure to detect errors or changes in the informational content of an electronic record, between the

9 parties the following rules apply:

- (a) the informational content of aAn electronic record that the security procedure shows can be shown to have been unaltered since a specified point in time, the informational content shall be is presumed to have been unaltered since that time.
- (b) If aAn electronic record is created or sent in accordance with a the security procedure for the detection of error, the informational content in the electronic record is presumed to have the informational content be as intended by the person creating or sending it as to portions of the informational content to which the security procedure applies.
- (c) If the electronic record nevertheless contained an error but the error was not discovered, the following rules apply:
- (1) If the sender complied with the security procedure, but the other party did not, and the change or error would have been detected had the receiving other party also complied with the security procedure, the sender is not bound by the error or change.

L	(d)(2) If the sender receives a notice other party notifies
2	the sender in a manner required by the security procedure that
3	describes the <u>informational</u> content of the record as received,
1	the sender shall review the notification ce and report any error
5	detected by it in a commercially reasonable manner. Failure to
5	so review and report any error $\frac{1}{2}$ binds the sender to the
7	informational content of the record as received.

- Source: Article 2B Draft Section 2B-117
- 9 **Notes to this Draft:** Edited for clarity and to more closely track Article B.
- 11 Reporter's Note:

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- 12 1. Like Section 202, this section allocates the risk of errors and changes in transmission to the party that could have best
- detected the error or change through the proper application and
- use of a security procedure. Again, since the parties will have
- agreed or adopted the security procedure, the creation of the presumption of accuracy, and allocation of risk to the party that
- should have discovered the error, should not pose undue hardship
- or unfair surprise on the party bearing the loss.
- [SECTION 204. INADVERTENT ERROR. (ae) In this section,
 "inadvertent error" means an error by an individual made in
 dealing with an electronic agent of the other party when the
 electronic agent of the other party did not allow for the
- (bc) In an automated transaction involving an individual,
 the individual is not responsible for an electronic record that
 the individual did not intend but that was caused by an
 inadvertent error if, on learning of the other party's reliance
- on the erroneous electronic record, the individual:

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correction of the error.

- 1 (1) in good faith promptly notifies the other party of 2 the error and that the individual did not intend the electronic 3 record received by the other party;
- 4 (2) takes reasonable steps, including steps that
 5 conform to the other party's reasonable instructions, to return
 6 to the other party or destroy the consideration received, if any,
 7 as a result of the erroneous electronic record; and
- 8 (3) has not used or received the benefit or value of 9 the consideration, if any, received from the other party.
- 10 (\underline{cd}) In subsection (\underline{bc}) , the burden of proving intent and
 11 lack of error is on the other party, and the individual has the
 12 burden of proving compliance with subsections (\underline{bc}) (1), (2), and
- 13 (3).]

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- Source: UETA Section 203(c-e) (Nov. 1997 Draft)
- Notes to this Draft: This provision has been moved to a new section for clarity.

Reporter's Notes: Section 2B-117(c) of the November 1,1997 draft of Article 2B created a new, rather elaborate defense for consumers when errors occur. This section now appears as Section 2B-118 of the March Draft. As currently drafted the defense relates to errors occurring because of system failures. Whether 2B-118 addresses human error (as in the single stroke error of concern to a number of observers at the September Meeting) could be clearer, although the recent draft and Illustration 2 to that section, suggest that what is termed "inadvertent error" here is Because the allocation of losses under this draft turns covered. on the use of security procedures and their commercial reasonableness and places the loss on the party choosing to rely on electronic records and electronic signatures, the distinction between consumers and merchants, and sophisticated and unsophisticated parties has been eliminated. Rather the burden is placed on the person consciously desiring the benefits of electronic media to assure that the level of security necessary exists.

However, this section attempts to address the issue of human error in the context of an automated transaction. The reason for attempting to address this issue is that inadvertent errors, such as a single keystroke error, do occur, and are difficult, if not impossible to retrieve, given the speed of electronic

communications. However, the definition of "inadvertent error" would allow a vendor to provide an opportunity for the individual to confirm the information to be sent, in order to avoid the operation of this provision. By providing an opportunity to an individual to review and confirm the information initially sent, the other party can eliminate the possibility of the individual defending on the grounds of inadvertent error since the electronic agent, through confirmation, allowed for correction of the error.

Subsection (c) has been deleted in this draft. The issue of the burden of proof should be left to the law of pleading and evidence. In any event, the provisions in subsection (c) did not alter what would otherwise be the burdens in litigation.

THE QUESTION FOR THE DRAFTING COMMITTEE is whether this section is appropriate and should be retained? A second question is whether the section should be expanded to cover systems errors as is the case under 2B-118?

SECTION 2054. ORIGINALS: ACCURACY OF INFORMATION ACCURACY.

- (a) If a rule of law [or a commercial practice] requires a record to be presented or retained in its original form, or provides consequences for if the record is not being presented or retained in its original form, that requirement is met by an electronic record if [the electronic record is shown to reflect accurately] [there exists a reliable assurance as to the integrity of] the information set forth in the electronic record from the time when it was first generated in its final form, as an electronic record or otherwise.
- (b) The integrity and accuracy of the information in an electronic record are determined by whether the information has remained complete and unaltered, apart from the addition of any endorsement and any change that arises in the normal course of communication, storage, and display. The standard of reliability required must be assessed in the light of the purpose for which

1 the information was generated and in the light of all the

2 relevant circumstances.

Source: Former Section 205 (UETA Aug. Draft); Uncitral Model Article 8; Illinois Model Section 204.

Reporter's Note: This section deals with the serviceability of electronic records as originals. As was noted at the May meeting, the concept of an original electronic document is problematic. For example, as I draft this Act the question may be asked what is the "original" draft. My answer would be that the "original" is either on a disc or my hard drive to which the document has been initially saved. Since I periodically save the draft as I am working, the fact is that at times I save first to disc then to hard drive, and at others vice versa. In such a case the "original" may change from the information on my disc to the information on my hard drive. Indeed, as I understand computer operations, it may be argued that the "original" exists solely in RAM and, in a sense, the original is destroyed when a "copy" is saved to a disc or to the hard drive. In any event, the concern focuses on the integrity of the information, and not with its "originality." Given the recognition of this problem, the title of the section has been expanded to reflect the concern regarding the informational integrity of an electronic record; integrity which is assumed to exist in the case of an original writing.

A second question raised at the May meeting related to when the law requires an "original." Except in the context of paper tokens such as documents of title and negotiable instruments, most requirements for "originals" derive from commercial practice where the assurance of informational integrity is a concern. The comment to Illinois Model Law Section 204 (derived largely from Uncitral Model Law Summary Paragraph 62) identifies some of these situations as follows:

The requirement that a document be "an original" occurs in a variety of contexts for a variety of reasons. Documents of title and negotiable instruments, for example, typically require the endorsement and presentation of an original. But in many other situations it is essential that documents be transmitted unchanged (i.e., in their "original" form), so that other parties, such as in international commerce, may have confidence in their contents. Examples of such documents that might require an "original" are trade documents such as weight certificates, agricultural certificates, quality/quantity certificates, inspection reports, insurance certificates, etc. Other non-business related documents which also typically require an original form include birth certificates and death certificates. When these documents exist on paper, they are usually only accepted if they are "original" to lessen the chance that

they have been altered, which would be difficult to detect in copies.

Since requirements for "originals" are often the result of commercial practice and not an actual rule of law, the section includes the bracketed language regarding requirements derived from commercial practice. As a policy matter it is not at all clear that legislation should override established commercial practice. THIS IS A QUESTION WHICH MUST BE RESOLVED BY THE DRAFTING COMMITTEE.

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So long as there exists reliable assurance that the electronic record accurately reproduces the information, this section continues the theme of establishing the functional equivalence of electronic and paper-based records. This is consistent with Fed.R.Evid. 1001(3) and Unif.R.Evid. 1001(3) (1974) which provide:

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."

THE BRACKETED ALTERNATIVES FOR TESTING THE RELIABILITY OF THE INFORMATIONAL CONTENT OF AN ELECTRONIC RECORD ARE PROVIDED FOR THE DRAFTING COMMITTEE'S CONSIDERATION. At the May meeting concern was expressed that the "reasonable assurance" standard was too vague. The first alternative tracks the language in the rules of evidence and focuses on the accuracy of the information presented. The second alternative is the language appearing in Section 204 of the Illinois Model.

Another issue relates to the use of originals for evidentiary purposes. In this context the concern principally relates to the "best evidence" or "original document" rule. The use of electronic records in evidence is addressed in Section 404 and its notes.

SECTION 2065. RETENTION OF ELECTRONIC RECORDS.

- (a) If a rule of law requires that certain documents, records, or information be retained, that requirement is met by retaining electronic records, if:
- (1) the information contained in the electronic record remains accessible so as to be usable for subsequent reference;
- (2) the electronic record is retained in the format in which it was generated, stored, sent, or received, or in a format

that can be demonstrated to reflect accurately the information as originally generated, stored, sent, or received; and

- (3) the information, if any, is retained as in a manner that enables the identification of the source of origin and destination of an electronic record and the date and time it was sent or received.
- (b) A requirement to retain documents, records, or information in accordance with subsection (a) does not extend to any information the sole purpose of which is to enable the record to be sent or received.
- (c) A person may satisfy the requirement referred to in subsection (a) by using the services of any other person, if the conditions set forth in subsection (a) are met.
- (d) Nothing in $t\underline{T}$ his section does not precludes any federal or state agency from specifying additional requirements for the retention of records, either written or electronic, subject to the agency's jurisdiction.

Source: Uncitral Model Article 10; Illinois Model Section 206. Reporter's Note: At the May meeting concern was expressed that retained records may become unavailable because the storage technology becomes obsolete and incapable of reproducing the information on the electronic record. Subsection (a)(1) addresses this concern by requiring that the information in the electronic record "remain" accessible, and subsection (a)(2) addresses the need to assure the integrity of the information when the format is updated or changed.

This section would permit parties to convert original written records to electronic records for retention so long as the requirements of subsection (a) are satisfied. Accordingly, in the absence of specific requirements to retain written records, written records may be destroyed once saved as electronic records satisfying the requirements of this section.

1 PART 3

2 ELECTRONIC SIGNATURES GENERALLY

- SECTION 301. LEGAL RECOGNITION OF ELECTRONIC SIGNATURES. 3
- (a) A signature may not be denied legal effect, validity, 5 or enforceability solely because it is in the form of an
- electronic signature. 6
- 7 If a rule of law requires a signature, or provides 8 consequences in the absence of a signature, that rule is 9 satisfied with respect to an electronic record if the electronic
- 10 record includes an electronic signature.
- 11 In any transaction, a A party may establish reasonable (b)
- 12 requirements regarding the method and type of signatures which
- 13 will be acceptable to it.
- 14 Source: Uncitral Model Article 7; Illinois Model Section 203(a);
- 15 Oklahoma Model Section IV.
- 16 Reporter's Note:
- 17 Subsection (a) establishes the fundamental premise of this
- 18 That the form in which a signature is generated, presented,
- 19 communicated or stored may not be the only reason to deny the 20 signature legal recognition. On the other hand, subsection (a)
- 21 should not be interpreted as establishing the legal
- 22 effectiveness, validity or enforceability of any given signature.
- 23 Where a rule of law requires that a record be signed with
- 24 minimum substantive requirements (as with a notarization), the
- 25 legal effect, validity or enforceability will depend on whether
- 26 the signature meets the substantive requirements. However, the
- 27 fact that a signature appears in an electronic, as opposed to
- 28 paper record, is irrelevant.
- 29 2. Subsection (b) is a particularized application of Subsection
- 30 (a). Its purpose is to validate and effectuate electronic
- 31 signatures as the equivalent of pen and ink signatures, subject
- 32 to all of the rules applicable to the efficacy and formality of a
- 33 signature, except as such other rules are modified by the more

34 specific provisions of this Act.

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- 3. This section, consistent with the existing UCC definition of a signature as "any symbol executed or adopted by a party with present intention to authenticate a writing," merely reiterates for clarity the rule that an electronic record containing an electronic signature satisfies legal requirements. The critical issue in either the signature or electronic signature context is what the signer intended by the execution, attachment or incorporation of the signature into the record.
- 9 This section is technology neutral - it neither adopts nor 10 prohibits any particular form of electronic signature. However, 11 it only validates electronic signatures for purposes of 12 applicable legal signing requirements and does not address the 13 legal sufficiency, reliability or authenticity of any particular 14 signature. As in the paper world, questions of the signer's intention and authority, as well as questions of fraud, are left 15 16 to other law. The effect and proof of electronic signatures is 17 addressed in the next Section.
- 5. As in Subsection 201(c), subsection (c) preserves the right of a party to establish reasonable requirements for the method and type of signatures which will be acceptable. Accordingly, and consistent with Section 105, a party may refuse to accept any electronic signature and of course establish the method and type of electronic signature which is acceptable.

SECTION 302. ELECTRONIC SIGNATURES: EFFECT AND PROOF.

- 25 (a) Unless the circumstances otherwise indicate that a
 26 party intends less than all of the effect, an electronic
 27 signature is intended to establishes
 - (1) the signing party's identity;
- 29 (2) its adoption and acceptance of a record or a 30 term; and
- 31 (3) the <u>integrity of the</u> informational <u>content</u>
 32 <u>integrity</u> of the record or term to which the electronic signature
 33 is attached or with which it is logically associated.
 - (b) If the signing party executed or adopted the <u>an</u>
 electronic signature <u>is executed or adopted</u> in accordance with a

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1	commercially reasonable security procedure for validating
2	electronic signatures, the following rules apply: ,
3	(1) the electronic signature is presumed to be
4	authentic and authorized; and
5	(2) the electronic record to which the electronic
6	signature is attached or with which it is logically associated is
7	presumed to be signed by the person to whom the electronic
8	signature correlates signing party.
9	(c) Otherwise, aAn electronic signature not governed by
10	subsection(b) may be proven in any manner, including by showing
11	that—
12	(1) a procedure existed by which a partythe person or
13	its electronic agent must of necessity have engaged in conduct or
14	operations that signed, or manifested assent to, a the record or
15	term in order to proceed further in the processing of the
16	transaction <u>.</u> , or
17	(2) the partyperson is bound by virtue of the
18	operations of its electronic agent.
19	(c) The authenticity of, and authority to make, an
20	electronic signature is admitted unless specifically denied in
21	the pleadings. If the validity of an electronic signature is
22	denied in the pleadings, the burden of establishing validity is
23	on the person claiming validity.
24 25 26 27 28 29	Source: Article 2B Draft Section 2B-118(a and c); Illinois Model Section 203. Committee Vote: To delete subsection (c) but retain its effect as a presumption. Committee Unanimous in favor - Observers 14 Yes - 2 No Reporter's Note:

1. An electronic signature is any symbol or methodology adopted with intent to sign a writing. This Act includes in the definition of signature the attributes normally associated with a pen and ink signature in order to make clear what a signer intends by signing a document, i.e., to identify oneself, adopt the terms of the signed record, and verify the integrity of the informational content of the record which is signed. By identifying the multi-purpose effect of a signature, this Act clarifies the assumption as to the intent of one signing any record. Subsection (a) simply applies this assumption to the electronic signature. As with a signature on paper, the signing party remains free to prove that the signing was intended to accomplish only 1 or 2 of the normal purposes associated with a signing.

- 2. Subsection (b) has been changed to delete the idea that an electronic record is signed as a matter of law when a security procedure is used. Instead it creates a presumption that an electronic signature executed or adopted pursuant to a security procedure is the authentic, authorized signature of the signing party. The purpose of the change is to make clearer the effect of an electronic signature and to make the operation of security procedures in the signature context parallel to the operation of security procedures in the record context, i.e., the creation of a presumption. The presumption now also addresses authenticity and authority, which were formerly addressed in subsection (c).
- 3. Subsection (c) provides that an electronic signature, not governed by a security procedure under subsection (b) may be proven in any manner including procedures necessitating the adoption of a term or record, or that the party is bound by the operations of its electronic agent (Section 303). By allowing proof of an electronic signature by showing that a process existed which had to be followed to obtain the results achieved, the section addresses the increasingly common "point and click" processes in on-line and on-screen programs.
- 4. Former subsection (c) has been deleted consistent with the Committee's instructions. The substantive effect has been moved to subsection (b) by creating a presumption of authority and authenticity where a commercially reasonable security has been used. Unless the validity of an electronic signature is denied by the purported singer, the presumption will stand to establish the authority and authenticity of the electronic signature. However, if the purported signer denies the validity of the signature, the presumption would be overcome, and the party asserting validity must carry the burden of so establishing.

1	SECTION 303. [SIGNATURES BY] [OPERATIONS OF] ELECTRONIC AGENTS.
2	(a) A party that designs, programs, or selects an
3	electronic agent is bound by operations of its electronic agent.
4	(b) An electronic record resulting from the operations of
5	an electronic agent shall be <u>is</u> deemed <u>to have been</u> signed by the
6	party designing, programming, or selecting the electronic agent,
7	regardless of whether or not the operations result in the
8	attachment or application of an electronic signature to the
9	electronic record.
10 11 12 13 14 15	Source: Prior UETA Section 204(b) (August Draft) Reporter's Note: 1. This section has been revised to make clear that a person using an electronic agent is responsible for the results obtained by setting the electronic agent in motion, and will be deemed to have signed any such record.
16 17 18 19 20 21 22 23 24 25 26 27	2. This section extends signing to the electronic agent, automated context. Its purpose is to establish that by programming an electronic agent, a party assumes responsibility for electronic records and operations "executed" by the program. While the electronic agent may or may not execute a symbol representing an electronic signature (i.e., with present human intent to authenticate the electronic record), the party programming the electronic agent has indicated its authentication of records and operations produced by the electronic agent within the parameters set by the programming. Accordingly, the party should be bound and deemed to have signed the records of the electronic agent.
28	PART 4
29	ELECTRONIC CONTRACTS AND COMMUNICATIONS
30	SECTION 401. FORMATION AND VALIDITY.
31	(a) <u>Unless otherwise agreed,</u> $\mp \underline{i}$ f an electronic record is

32 used in the formation of a contract, the contract may not be 33 denied legal effect, validity $\underline{\hspace{0.1cm}}$ or enforceability $\underline{\hspace{0.1cm}}$ solely because

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on the sole ground that an electronic record was used for that purpose.

- (b) Operations of electronic agents which confirm the existence of a contract or signify agreement may form a contract even if no individual was aware of or reviewed the operations.
- $(\underline{b}\underline{c})$ In an automated transaction, the following rules apply:
 - electronic agents. A contract is formed if the interaction results in both the electronic agents engaging in operations that confirm the existence of a contract or indicate signify agreement, such as by engaging in performing the contract, ordering or instructing performance, accepting performance, or making a record of the existence of a contract.
 - electronic agent and an individual. A contract is formed by such interaction if (A) the individual has reason to know (i) that the individual is dealing with an electronic agent and (ii) the limitations on the ability of the electronic agent to react to contemporaneous expressions by the individual and (B) the individual performs actions that the individual knows or reasonably should know will cause the electronic agent to complete the transaction, or performance or permit further use, or that which are clearly indicated as constituting acceptance, regardless of other expressions or actions by the individual to

1	which the individual cannot reasonably expect the electronic
2	agent to react.
3	(3) The terms of a contract resulting from an
4	automated transaction include:
5	(A) terms of the parties' agreement (including terms
6	with respect to which either party has manifested assent),;
7	(b) terms that the electronic agent could take into
8	account; and,
9	(C) to the extent not covered by subparagraph (A) or
10	(B), terms provided by law.
11	(4) A person is bound by the terms and agreements
12	resulting from the operations of its electronic agent even if no
13	individual was aware of or reviewed the electronic agent's
14	actions or the resulting terms and agreements.
15	$(\underline{c}\overline{d})$ If an electronic record initiated by a party or an
16	electronic agent evokes an electronic record in response and the
17	records reflect an intent to be bound, a contract is formed
18	exists when:
19	(1) when the response signifying acceptance is
20	received; or
21	(2) if the response consists of electronically
22	performing the requested consideration in whole or in part, when
23	the requested consideration, to be performed electronically, is
24	received, unless the originating record prohibited that form of
25	response.
26 27	Source: Article 2B Draft Section 2B-204; Uncitral Model Article 11.

Committee Vote: To delete the concept of manifestation of assent
from Subsection (b)(3) (former subsection (c)(3)) Committee 6 Yes
- 0 No Observers 15 Yes - 0 No

Reporter's Note:

- 1. Subsection (a) makes clear that the use of electronic records, e.g., offer and acceptance, in the context of contract formation may not be the sole ground for denying validity to the contract. It is another particularized application of the general rules stated in Sections 201(a) and 301(a). At the request of one member of the Drafting Committee, the introductory clause has been added to confirm that the use of electronic records in this context may be avoided by agreement of the parties.
- 2. Subsection (b) has been revised for clarity and to more closely track the revision in Article 2B. The subsection addresses those transactions not involving human review by one or both parties and provides rules to expressly validate contract formation when electronic agents are involved. It sets forth the circumstances under which formation will occur in a fully automated transaction and under an automated transaction where one party is an individual. Former subsection (b) has been moved as part of this new subsection to confirm that a person is bound by the actions of its electronic agents in these types of transactions.
- 3. Subsection (b)(2) has been revised to eliminate the requirements that an individual dealing with an electronic agent know both that it is dealing with an electronic agent and the limitations on the agent's ability to respond to the individual. This revision differs from the provision of Article 2B-204 which still retains these requirements.

As noted in a number of comments at the January meeting, whether one knows that one is dealing with an electronic agent should be irrelevant, so long as the individual proceeds with actions it knows or reasonably should know will result in accomplishment of the ends desired. Concerns previously expressed by observers that individuals may not know what contemporaneous statements made by the individual would be given effect because of the possibility of contemporaneous or subsequent human review, have been addressed by limiting those actions of the individual which may result in a contract to those which the individual would reasonably expect to result in a contract. This will provide the party employing an electronic agent with an incentive to make clear the parameters of the agent's ability to respond. If the party employing the electronic agent provides such information, the individual's act of proceeding on the basis of contemporaneous actions or expressions not within the parameters of the agent would be unreasonable and such actions and expressions could not be the basis for contract formation.

4. Finally, subsection (c) deals with timing in the formation of a contract by electronic means. Subsection (c)(2) makes clear that acceptance by performance, either in whole or in part, when the performance is electronic, occurs on receipt. When acceptance of an offer by performance occurs other than electronically (e.g. by the shipment of product), acceptance is governed by other rules of law such as the UCC and common law. As to timing of receipt see section 402.

SECTION 402. TIME AND PLACE OF SENDING AND RECEIPT.

- (a) Unless otherwise agreed between the sender and the recipient, an electronic record is sent when it enters an information processing system outside the control of the sender or of a person who that sent the electronic record on behalf of the sender.
- (b) Unless otherwise agreed between the sender and the recipient, an electronic record is received when the electronic record enters an information processing system from which the recipient is able to retrieve electronic records, in a form capable of being processed by that system, and the recipient uses or has designated that system for the purpose of receiving such electronic records or information. In addition, aAn electronic record is also received when it comes to the attention of the recipient acquires knowledge of it.
- (c) Subsection (b) applies even if the place where the information <u>processing</u> system is located is different from the place where the electronic record is considered to be received under subsection (d).
- (d) Unless otherwise agreed between the sender and the recipient, an electronic record is deemed to be sent from where the sender has its place of business and is deemed to be received

- 1 where the recipient has its place of business. For the purposes
- 2 of this subsection:
- 3 (1) if the sender or recipient has more than one place
- 4 of business, the place of business is that which has the closest
- 5 relationship to the underlying transaction or, if there is no
- 6 underlying transaction, the principal place of business; and
- 7 (2) if the sender or the recipient does not have a
- 8 place of business, the place of business is the recipient's
- 9 habitual residence.
- 10 (e) Subject to Section 403, an electronic record is
- 11 effective when received, even if no individual is aware of its
- 12 receipt.
- 13 **Source**: Article 2B Draft Section 2B-102(a)(36), and 2B-120(a);
- 14 Uncitral Model Article 15.
- 15 Reporter's Note:
- 16 1. This section provides default rules regarding when an
- 17 electronic record is sent and when and where an electronic record
- is received. As with acknowledgments of receipt under Section
- 19 403, this section does not address the efficacy of the record
- 20 that is received. That is, whether a record is unintelligible or
- 21 unusable by a recipient is a separate issue from whether that
- 22 record was received.
- 23 2. Subsection (b) is from the former definition of received in
- 24 the August draft. It provides simply that when a record enters
- 25 the system which the recipient has designated or uses and to
- 26 which it has access, in a form capable of being processed by that
- 27 system, it is received. Unless the parties have agreed
- otherwise, entry into any system to which the recipient has
- 29 access will suffice. By keying receipt to a system which is
- 30 accessible by the recipient, the issue of leaving messages with a
- 31 server or other service is removed. However, the issue of how
- 32 the sender proves the time of receipt is not resolved by this
- 33 section. The last sentence provides the ultimate fallback by
- providing that in all events a record is received when the
- 35 recipient has knowledge of it.
- 36 3. Subsections (c) and (d) provide default rules for
- 37 determining where a record will be considered to have been
- 38 received. The focus is on the place of business of the recipient

and not the physical location of the information processing system. As noted in paragraph 100 of the commentary to the Uncitral Model Law

It is not uncommon for users of electronic commerce to communicate from one State to another without knowing the location of information systems through which communication is operated. In addition, the location of certain communication systems may change without either of the parties being aware of the change.

Accordingly, where the place of sending or receipt is an issue, the relevant location should be the location of the sender or recipient and not the location of the information processing system.

- 4. Subsection (e) rejects the mailbox rule and provides that electronic records are effective on receipt. This approach is consistent with Article 4A and, as to electronic records, Article 2B.
- SECTION 403. ELECTRONIC ACKNOWLEDGMENT OF RECEIPT.
- (a) If the sender of a record requests or agrees with the recipient of the record that receipt of the record must be acknowledged electronically, the following rules apply:
- (1) If the sender indicates in the record or otherwise that the record is conditional on receipt of an electronic acknowledgment, the record does not bind the sender until acknowledgment is received, and the record is no longer effective expires if acknowledgment is not received within a reasonable time after the record was sent.
- but does not state <u>indicate</u> that the record is conditional on electronic acknowledgment, and does not specify a time for receipt, and electronic acknowledgment is not received within a reasonable time after the record is sent, the sender, <u>up</u>on notifyingce to the other party, may: either

1	(A) treat the record as having expired <u>no longer</u>
2	<pre>effective;</pre>
3	(B) specify a further reasonable time within
4	which electronic acknowledgment must be received and, if
5	acknowledgement is not received within that time, or the message
6	will be treated the record as having expired no longer effective.
7	If electronic acknowledgment is not received within that
8	additional time, the sender may treat the record as not having
9	binding effect.
10	(3) If the sender requests electronic acknowledgment
11	and specifies a time for receipt, if and receipt does not occur

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- within that time, the sender may treat the record as no longer effective having expired. Receipt of electronic acknowledgment establishes (b)
- creates a presumption that the record was received but, in 16 itself, does not establish that the content sent corresponds to 17 the content received.
- Source: Article 2B Draft Section 2B-120(b)&(c); Uncitral Model 18 19 Article 14.
 - Notes to This Draft. Edited for clarity and to more closely track Article 2B.
 - Reporter's Note: This section deals with functional acknowledgments as described in the ABA Model Trading Partner Agreement. The purpose of such functional acknowledgments is to confirm receipt, and not necessarily to result in legal consequences flowing from the acknowledgment.

Subsection (a) permits the sender of a record to be the master of its communication by requesting or requiring acknowledgment of receipt. The subsection then sets out default rules for the effect of the original message under different circumstances.

As noted in subsection (b) the only effect of a functional acknowledgment is to establish receipt. The acknowledgment alone does not affect questions regarding the binding effect of the acknowledgment nor the content, accuracy, time of receipt or

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other issues regarding the legal efficacy of the record or acknowledgment.

SECTION 404. ADMISSIBILITY INTO EVIDENCE.

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- 4 (a) In any legal proceeding, the rules of evidence must may
 5 not be applied to deny the admissibility in evidence of an
 6 electronic record or electronic signature:
- 7 (1) on the sole ground that it is an electronic record 8 or electronic signature; or
- 9 (2) on the ground that it is not in its original form or is not an original.
- 11 (b) In assessing the evidentiary weight of an electronic 12 record or electronic signature, the trier of fact shall consider the manner in which the electronic record or electronic signature 13 was generated, stored, communicated, or retrieved, the 14 15 reliability of the manner in which the integrity of the 16 electronic record or electronic signature was maintained, the manner in which its originator was identified or the electronic 17 record was signed, and any other relevant information or 18 19 circumstances.
- Source: UETA Section 206 (August Draft); Uncitral Model Article 9; Illinois Model Section 205.
 Reporter's Note: Like sections 201(a) and 301(a), subsection
 - Reporter's Note: Like sections 201(a) and 301(a), subsection (a)(1) prevents the nonrecognition of electronic records and signatures solely on the ground of the media in which information is presented. Subsection (a)(2) also precludes inadmissibility on the ground an electronic record is not an original.

Nothing in this section relieves a party from establishing the necessary foundation for the admission of an electronic record. Subsection (b) gives guidance to the trier of fact in according weight to otherwise admissible electronic evidence.

1	SECTION 405. TRANSFERABLE RECORDS. If the identity of the
2	rightful holder of person entitled to enforce a transferable
3	record can be reliably determined from the record itself or from
4	a method employed for recording, registering, or otherwise
5	evidencing the transfer of interests in such records, the
6	rightful holder of person entitled to enforce the record is
7	considered deemed to be in possession of the record.
8 9 10 11 12 13 14 15 16 17	Source: Oklahoma Model Section III.B.2. Reporter's Note: This section has been retained for discussion by the Drafting Committee on whether such documents should be covered by this Act. The key to this section is to create a means by which a "holder" may be considered to be in possession of an intangible electronic record. If technological advances result in an ability to identify a single "rightful holder" of a negotiable instrument electronic equivalent, the last hurdle to holder in due course status would be possession, which this section would provide.
19	PART 5
19 20	PART 5 GOVERNMENTAL ELECTRONIC RECORDS
20	GOVERNMENTAL ELECTRONIC RECORDS
20 21	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND
202122	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES.
20212223	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES. (a) [Except where Unless expressly prohibited by statute,]
2021222324	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES. (a) [Except where Unless expressly prohibited by statute,] Every Each state governmental agency may shall determine if, and
202122232425	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES. (a) [Except where Unless expressly prohibited by statute,] Every Each state governmental agency may shall determine if, and the extent to which, it will create and retain electronic records
20212223242526	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES. (a) [Except where Unless expressly prohibited by statute,] Every Each state governmental agency may shall determine if, and the extent to which, it will create and retain electronic records in place instead of written records and may convert written
20 21 22 23 24 25 26 27	GOVERNMENTAL ELECTRONIC RECORDS SECTION 501. USE CREATION AND RETENTION OF ELECTRONIC RECORDS AND CONVERSION OF WRITTEN RECORDS BY STATE GOVERNMENTAL AGENCIES. (a) [Except where Unless expressly prohibited by statute,] Every Each state governmental agency may shall determine if, and the extent to which, it will create and retain electronic records in place instead of written records and may convert written records to electronic records. [The [designated state officer]

1	SECTION 502	. RECEIPT	AND	DISTRIBUTION	OF	ELECTRONIC	RECORDS	BY
2	GOVERNMENTA	L AGENCIE	S.					

- (ab) Any state [Except where expressly prohibited by statute] Each governmental agency shall determine if, and the extent to which, it will send and receive electronic records and electronic signatures to and from other persons, and otherwise create, use, store and rely upon electronic records and electronic signatures. that accepts the filing of records or requires that records be created or retained by any person may authorize the filing, creation, or retention of records in the form of electronic records [except where expressly prohibited by statute].
- (\underline{bv}) In any case governed by subsection (a) or (b), the state governmental agency, by appropriate regulation giving due consideration to security, [may] [shall] specify:
- (1) the manner and format in which the electronic records must be filed, created, sent, received and stored or retained;
- (2) if electronic records must be electronically signed, the type of electronic signature required, and the manner and format in which the electronic signature must be affixed to the electronic record, and the identity of, or criteria that must be met by, any third party used by a person filing a document to facilitate the process;

1	(3) control processes and procedures as appropriate to
2	ensure adequate integrity, security, confidentiality, and
3	auditability of electronic records; and
4	(4) any other required attributes for electronic
5	records which are currently specified for corresponding non-
6	electronic records, or reasonably necessary under the
7	<u>circumstances</u> .
8	(c) All regulations adopted by a governmental agency shall
9	conform to the applicable requirements established by [designated
10	state officer] pursuant to Section 503.
11	(d) In establishing regulations under subsection (c) state
12	<u>qovernmental</u> agencies shall give due regard to regulations
13	implemented by other state governmental agencies, other states
14	and the federal government for the purpose of avoiding, to the
15	greatest extent possible, conflicting regulations which would
16	impede commerce and the implementation of electronic
17	transactions.
18	(\underline{de}) Nothing in \underline{t} This [Act] may be construed to $\underline{does\ not}$
19	require any state governmental agency to use or permit the use of
20	electronic records or <u>electronic</u> signatures.
21 22 23	Source: Illinois Model Section 801; Florida Electronic Signature Act, Chapter 96-324, Section 7 (1996). Reporter's Note: See Notes following Section 504.
24	SECTION 503. [DESIGNATED STATE OFFICER] TO ADOPT STATE STANDARDS.
25	The [designated state officer] may adopt regulations setting
26	forth rules, standards, procedures and policies for the use of
27	electronic records and electronic signatures by governmental

- 1 agencies. Where appropriate, such regulations shall specify
- 2 differing levels of standards from which implementing
- 3 governmental agencies can choose in implementing the most
- 4 appropriate standard for a particular application.
- 5 **Source:** Illinois Model Section 802(a).
- 6 Reporter's Note: See Notes following Section 504.
- 7 **SECTION 504. INTEROPERABILITY.** To the extent practicable under
- 8 the circumstances, regulations adopted by [designated state
- 9 officer] or a governmental agency relating to the use of
- 10 electronic records or electronic signatures shall be drafted in a
- 11 manner designed to encourage and promote consistency and
- 12 <u>interoperability with similar requirements adopted by</u>
- 13 governmental agencies of other states and the federal government.
- 14 **Source:** Illinois Model Section 803.
- Reporter's Notes to Part 5. This Part addresses the expanded
- 16 scope of this Act.
- 17 1. Section 501 is derived from former subsection 501(a) and
- authorizes state agencies to use electronic records and
- 19 electronic signatures generally for intra-governmental purposes,
- and to convert written records and manual signatures to
- 21 electronic records and electronic signatures. By its terms it
- leaves the decision to use electronic records or convert written
- 23 records and signatures to the governmental agency. It also
- 24 authorizes the destruction of written records after conversion to
- 25 electronic form. In this regard, the bracketed language requires
- the appropriate state officer to issue regulations governing such
- 27 conversions.
- 28 2. Section 502 covers substantially the same subject as former
- section 501(b). It has been revised along the model of the
- 30 pending Illinois legislation and broadly authorizes state
- 31 agencies to send and receive electronic records and signatures in
- dealing with non-governmental persons. Again, the provision is
- permissive and not obligatory (see subsection (d)).
- 34 2. Subsection 502(c) requires governmental agencies, in
- 35 adopting regulations for the use of electronic records and
- 36 signatures to conform to standards established by the designated

- state officer under Section 503. The question here is whether the state agencies should be required, or merely permitted, to promulgate such regulations before accepting electronic records?
- 3. Section 503 authorizes a designated state officer to promulgate standards and regulations for the use of electronic media. The idea in this case is that a central authority should adopt broad standards and regulations which can be tailored consistently by individual governmental agencies to meet the needs of the particular agency. Should the task of promulgating regulations be left with the secretary of state or other central authority?
- 4. Section 504 requires regulating authorities to take account of consistency in applications and interoperability to the extent practicable when promulgating regulation. This section is critical in addressing the concerns of many at our meetings that inconsistent applications may promote barriers greater than

currently exist.

2	MISCELLANEOUS PROVISIONS
3	SECTION 601. SEVERABILITY CLAUSE. If a provision of this
4	[Act], or an application thereof to any person or circumstance,
5	is held invalid, the invalidity does not affect other provisions
6	or applications of the [Act] that can be given effect without the
7	invalid provision or application, and to this end the provisions
8	of this [Act] are severable.
9	Source: Article 1 Draft Section 1-106.
10	SECTION 602. EFFECTIVE DATE.
11	Source:
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12	SECTION 603. SAVINGS AND TRANSITIONAL PROVISIONS.
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13	Source:

PART 6

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