

Lex Mercatoria: Electronic Commerce and Encryption Pages

Lex Mercatoria

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Lex Mercatoria: Electronic Commerce and Encryption Pages

Electronic Commerce & Encryption

Electronic Commerce \046 Encryption Encryption0mm

*Electronic Commerce Documents tiny UNCITRAL Model Law on Electronic Commerce (1996) > <document manifest>¹ < html, segmented text> < html, scroll, document in one> < pdf, landscape> < pdf, portrait> < odf:odt, open document text> < plain text utf-8> < concordance> < dcc, document content certificate (digests)> footnotesize tiny WTO Declaration on Global Electronic Commerce (Adopted on 20 May 1998) > <document manifest>² < html, segmented text> < html, scroll, document in one> < pdf, landscape> < pdf, portrait> < odf:odt, open document text> < plain text utf-8> < concordance> < dcc, document content certificate (digests)> footnotesize tiny OECD Recommendation of the OECD Council Concerning Guidelines for Consumer Protection in the Context of Electronic Commerce (Organisation for Economic Co-operation and Development) 1999 > <document manifest>³ < html, segmented text> < html, scroll, document in one> < pdf, landscape> < pdf, portrait> < odf:odt, open document text> < plain text utf-8> < concordance> < dcc, document content certificate (digests)> footnotesize tiny<Summary Of Electronic Commerce And Digital Signature Legislation> McBride Baker & Coles !pick tiny<Technology-Neutral, Non-PKI, Minimalist E-Commerce Legislation> tiny<EFF "Privacy - Crypto - Export Restrictions, ITAR and EAR" Archive> Electronic Frontier Foundation tiny<eCommerce & Legal issues> at <http://ecominfocenter.com/> eComInfoCenter.com tinyFor other documents related to

¹<http://www.jus.uio.no/lm/un.electronic.commerce.model.law.1996/sisu_manifest.html>

²<http://www.jus.uio.no/lm/wta.electronic.commerce.1998/sisu_manifest.html>

³<http://www.jus.uio.no/lm/oe.cd.consumer.protection.in.electronic.commerce.guideline.recommendation.1999/sisu_manifest.html>

electronic commerce (such as EDI or cryptography) look under the relevant subject heading below. *Cryptography /Encryption tinyThis list does not attempt to be exhaustive. It provides links to sources we have found particularly useful, and to other more comprehensive lists of sources on the subject. tinyElsewhere off this site: <Electronic Commerce compendium> tinyCryptography applied in various ways and circumstances is essential for security and trust: ParagraphIndent0mm• confidentiality

- integrity 17
- authentication 18
- non-repudiation 19

In sum, read, cryptography impacts upon every aspect of considered e-commerce and private e-business relations. 20

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#aes AES Algorithm (Advanced Encryption Standard) 23

#reference Reference 24

#software Security Software 25

<Crypto Law Survey> <Bert Jaap Koops> 26

<A Short History of Cryptography> by Fred Cohen from <Introductory Information Protection> "a book about keeping people and organizations from harm caused by information. It requires little or mathematics and is suitable as a text for a graduate level or advanced undergraduate course." Fred Cohen & Associates 27

<Why Cryptography Is Harder Than It Looks> by Bruce Schneier CTO and Founder <Counterpane Internet Security, Inc.> 28

Agreements 29

<Wassenaar Arrangement> 30

31	Interest Groups	51	“SPECIAL NOTE - Intellectual Property NIST reminds all interested parties that the adoption of AES is being conducted as an open standards-setting activity. Specifically, NIST has requested that all interested parties identify to NIST any patents or inventions that may be required for the use of AES. NIST hereby gives public notice that it may seek redress under the antitrust laws of the United States against any party in the future who might seek to exercise patent rights against any user of AES that have not been disclosed to NIST in response to this request for information.”
32	<Center for Democracy and Technology>		
33	<CryptoRights Foundation>		
34	<Cyber Rights and Cyber Liberties UK> on the <Wassenaar Arrangement> at <Cyber Rights & Cyber Liberties>		
35	<Electronic Frontier Foundation>		
36	<International Cryptography Campaign>		
37	<Foundation for Taxpayer and Consumer Rights>		
38	<Global Internet Liberty Campaign>		
39	<Free Congress Foundation>	52	<Information Technology Laboratory>
40	<Echelonwatch>	53	“Our goals are to strengthen the U.S. economy and improve the quality of life by providing the information technology industry and users with needed measurements and standards and to provide NIST with high quality information technology services.”
41	<the American Civil Liberties Union>		
42	<Electronic Frontiers Texas>		
43	<Center for Media Education>		
44	Industry		<Federal Information Processing Standards Publications> 54
45	<Direct Marketing Association>		<AES> entry on Wikipedia 55
46	<TRUSTe>		
47	AES Algorithm (Advanced Encryption Standard)		AES Winner announced October 2nd, 2000 56
48	NIST AES		<Rijndael> by <Joan Daemen> and <Vincent Rijmen> < > of Belgium. 57
49	<AES Algorithm> Advanced Encryption Standard (AES) Development Effort, Computer Security Division, National Institute of Standards and Technology, NIST is an agency of the U.S. Commerce Department's Technology Administration see <Encryption toolkit> Advanced Encryption Standard of the National Institute of Standards and Technology (NIST)		publications Vincent Rijmen <list> DBLP Bibliography Server <list> 2everything 58
50	<Report>		Joan Daemen <list> DBLP Bibliography Server <list> 2everything 59
			<Cryptix> 60
			The Rijndael algorithm is based on a block cipher algorithm (The Block Cipher Square Algorithm) described in an article in the October, 1997 issue of DDJ < > 61
			6{ 5 Finalists, August 1999 62

63	‹Twofish›	‹[+]›	
64	‹Rijndael›	‹Crypto Page› Paulo Barreto	83
65	‹Serpent›	‹Encryption and Security Tutorial›	84
66	‹MARS›	‹Cryptome›	85
67	‹RC6›	‹A Cryptographic Compendium› < > ‹alternative location›	86
68	Data Encryption Standard (DES)	‹EFF “Privacy - Crypto - Export Restrictions, ITAR and EAR” Archive› Electronic Frontier Foundation	87
69	‹Data Encryption Standard (DES)›	‹Cryptography› Francis Litterio	88
70	‹Data Encryption Standard (DES), Triple DES, and Skipjack Algorithms›	‹Security & Cryptography› ‹standards› by Michael Waidner	89
71	‹Triple DES Validation List›	‹Security and Encryption› ‹*› Quick Links	90
72	‹Overview Triple DES Encryption›	‹Encryption and Security Tutorial›	91
73	‹Easy DES File Encryption Software for Organizations!›	‹Encryption, Security & Privacy News› All E-Commerce	92
74	‹Strong Encryption Package› Federal Information Processing	‹Cryptographic Algorithms› ‹Mach5 Cryptography Archives›	93
75	‹Announcing the Standard for Data Encryption Standard (DES)› FIPS PUB 46-2, Supersedes FIPS PUB 46-1, 1988 January 22 Federal Information Processing Standards Publication 46-2 1993 December 30.	‹What’s Hot in Encryption - Bulletins› EFF	94
76	Reference & Links	‹Cryptography: The Study of Encryption› ‹Cryptography› Francis Litterio	95
77	‹The Crypto Link Farm - Encryption and Security-related Resources› A few of (the many) mirrors auto-updated: < >	‹How electronic encryption works and how it will change your business› ‹Viacorp . com›	96
78	‹Security and Encryption-related Resources and Links› by Peter Gutmann	‹Security Encryption PGP›	97
79	‹Security pointers› by Tom Dunigan	‹GPG - The GNU Privacy Guard› (Open PGP)	98
80	‹Security and Cryptography› by Mark McCutcheon	‹The Linux Encryption-HOWTO Homepage› ‹Linux Encryption HOWTO› by Marc Mutz	99
81	‹Crypto - Cryptography resource on the Web› by Matt Blaze	‹OpenPGP (RFC2440)›	100
82	‹Cryptography and Security› ‹[+]› by ‹Ronald L. Rivest›	‹Snake Oil Warning Signs: Encryption Software to Avoid› an FAQ by Matt Curtin	101
		‹Mitre› CVE - Security Dictionary of Common Vulnerabilities and Exposures	102
		‹Counterpane›	103
		‹Infosyssec - Security Portal for Information System Security Professionals›	104

105 **Security Software**106 **Secure Point to Point Connection and File Sharing**107 <[Open Secure Shell](#)> - openSSH108 <[Linux FreeS/WAN](#)> Secure point to point connection anywhere on the Internet, Strong Encryption. Developed outside the United States and not subject to US export restrictions.109 <[Linux PPTP Server](#)> the PPTP Linux Server works with WinNT PPTP clients and C. S. Ananian's PPTP Linux clients. Virtual Private Networking technology enables the use the public Internet backbone for private data communications, encryption and encapsulation technology, permitting the carving out of a private channel/passageway through the Internet.110 <[Bizee](#)> free download of V-ONE technology that permits secure connection with other users of the same technology. It performs authentication and uses 168-bit Triple DES encryption to secure e-commerce, as well as to encrypt data being transmitted as part of auctions, chat rooms, e-mail and classified advertisements. Adequate security has been a big obstacle to business-to-business commerce to date... July 1999111 <[Gnutella](#)>112 <[Gnut](#)> Linux/Unix console gnutella clone113 <[Freenet](#)> (The Free Network Project Homepage) "Re-Wiring the Internet". Hosted by <[Source Forge](#)> "Freenet is a peer-to-peer network designed to allow the distribution of information over the Internet in an efficient manner, without fear of censorship. Freenet is completely decentralized, meaning that there is no person, computer, or organisation in control of Freenet or essential to its operation. This means that Freenet cannot be attacked like centralized peer-to-peer systems such as Napster. Freenet also employs intelligent routing and caching meaning that it learns to route requests more efficiently, automatically mirrors popular data, makes network flooding almost impossi-

ble, and moves data to where it is in greatest demand. All of this makes it much more efficient and scalable than systems such as Gnutella."

114 <[Mojo Nation](#)> claimed to be "a revolutionary new publishing and content-sharing network. [That]combines the flexibility of the marketplace and the distributed computing power of the Internet to go far beyond current filesharing systems... Mojo Nation is building an efficient, massively scalable and secure marketplace for distributors and consumers of digital content."115 <[Wheres dot com](#)> Internet file sharing programs**Encrypted Files and Mail** 116

117 #linux Linux Solutions

118 #commercial Commercial

119 <[UP - Ultimate Privacy](#)>120 <[Speak Freely](#)>121 <[Speak Free](#)> Secure fully encrypted Chat Program122 <[Speak Freely Unix](#)> <[Windows](#)>123 <[HushMail](#)> web based secure e-mail124 <[Freedom](#)> "Untraceable" privacy system from ZeroKnowledge125 <[1on1 Secure Mail](#)> The free-to-use service that requires the use of a sizable e-mail Windows PC client, which may be downloaded from the site or obtained on CD.126 <[Mutt](#)> a pgp-aware mailer127 <[SUIDNet](#)> "secure IRC network"128 <[The International PGP Page](#)>129 <[Top level home page for www.pgp.net](#)>130 <[GPG - GNU Privacy Guard](#)> <[Download GPG](#)> which uses only free algorithms, and conforming to the OpenPGP standard

131	OpenPGP (RFC2440)	Steganography	146
132	PGP Sites #fix	Steghide	147
133	PGP DH v RSA FAQ	Outguess Steganography	148
134	Linux Encryption Solutions	StegFS - A Steganographic File System for Linux	149
135	See also Linux Encryption	Organizations	150
136	GPG - GNU Privacy Guard Download GPG which uses only free algorithms, and conforming to the OpenPGP standard	Internet Engineering Task Force	151
137	Project Aegypten (Free Software Sphinx-Clients) for Linux "The Sphinx project launched by German authorities aims to improve secure email exchange... Proprietary products are already on the way, but with the project Aegypten there is now also a Free Software solution going to be realized for popular mail user agents (sphinx-enabling KMail and mutt are essential goals)."	IEEE Computer Society	152
138	SuSE Linux (since v7.2) provides a Secure Crypto File System based on Twofish	International Association for Cryptography Research	153
139	The Linux Encryption-HOWTO Homepage Linux Encryption HOWTO by Marc Mutz	National Security Agency U.S.A.	154
140	Encrypting Disks	National Institute of Standards and Technology NIST is an agency of the U.S. Commerce Department's Technology Administration	155
141	Encrypting your Disks with Linux Doobee. R. Tzeck	NCSA	156
142	PPDD requires recompiling (patching) the Linux kernel to allow strong encryption and a special device. Good documentation.	DSS Defense Security Service	157
143	TCFS involves the running of a daemon which exports an encrypted filesystem as an NFS share.	National Infrastructure Protection U.S. Department of Homeland Security	158
144	Crypto Kernel Patch a patch for any given Linux kernel to make the loopback device use encryption algorithms.	The Critical Infrastructure Assurance Office (CIAO) moved to the U.S. Department of Homeland Security	159
145	BestCrypt Jetico	ANSI - American National Standards Institute	160
		National Information Assurance Partnership	161
		Office of Information Security	162
		International Telecommunication Union	163
		Internet Security Alliance a non-profit collaboration between EIA and Carnegie Mellon's CERT Coordination Center (CERT/CC), with a diverse and international membership	164
		ETSI Telecom Standards	165
		SET Secure Electronic Transactions	166
		Association for Computing Machinery	167

	‹SANS Institute›		‹Biometric Encryption information›	191
169	‹CSI - Computer Security Institute›	168	‹The Bio API›	192
170	‹TruSecure›		‹VeriSign›	193
171	‹CERT› a center of Internet security expertise			
172	‹ ›			
173	Commercial		Quantum physics cryptography	194
174	‹RSA Data Security› ‹RSA›		‹NTT›	195
175	‹RSA Security› “the most trusted name in e-security”		‹Almaden Research Lab›	196
176	RSA Security Incorporated owned key encryption patents (US) which expired September 26 th 2000.		‹Los Alamos›	197
177	‹Baltimore Security›		‹British Telecom›	198
178	Other		Digital Signatures	199
179	‹UP - Ultimate Privacy›		This list does not attempt to be exhaustive. It provides links to sources we have found particularly useful, and to other more comprehensive lists of sources on the subject.	200
180	‹VeriSign›		Elsewhere off this site: ‹Electronic Commerce compendium›	201
181	‹Speak Freely›		‹UNCITRAL Model Law on Electronic Signatures (2001)›	202
182	‹Speak Free› Secure fully encrypted Chat Program		Electronic Signatures in Global and National Commerce Act, 2000, United States	203
183	‹Speak Freely Unix› ‹Windows›		is law, granting (from 1 st October, 2000) electronic signatures the same binding legal status as hand-written signatures and thereby making the signing of enforceable contracts online possible on the click of a mouse, with all that that may imply.	204
184	‹Crypto-Central SHA algorithm MD5 etc.› Delphi: Advanced encryption Components		‹Bill›	205
185	Biometrics		“A bill to regulate interstate commerce by electronic means by permitting and encouraging the continued expansion of electronic commerce through the operation of free market forces, and for other purposes”	206
186	‹The Biometric Consortium›		‹Interdisciplinary Centre for Law & Information Technology, ICRI›	207
187	‹The International Biometric Society›			
188	‹Biometrics› A Journal of the International Biometric Society			
189	‹Biometric Consortium›			
190	‹Biometrics›			

208 <[Legal Aspects of the E-Revolution](#)> <(archived site)> European
Commission - Information Society Directorate-General

209 <[Internet Law & Policy Forum](#)> “dedicated to promoting the
global growth of e-commerce by contributing to a better un-
derstanding of the particular legal issues which arise from the
cross border nature of the electronic medium”

210 <[Links on Law, Cryptography and Electronic Communications](#)>
Prepared by Juan A. Avellan of the Information Technology Law
Unit, Queen Mary and Westfield College

211 <[Law Center on Electronic Signatures](#)>

212 <[Global E-Commerce Law](#)> Baker & McKenzie

213 <[The CyberNotary Committee](#)> Science and Technology Sec-
tion of the American Bar Association co Chairs: Theodore S.
Barassi & Joseph H. Alhadeff

214 <[Digital Notary Systems](#)> American Bar Association

215 <[Digital Signatures Guidelines](#)> American Bar Association

216 **Electronic Contracts and Electronic Commercial Documents**

217 This list does not attempt to be exhaustive. It provides links to
sources we have found particularly useful, and to other more
comprehensive lists of sources on the subject.

218 Elsewhere off this site: <[Electronic Commerce com-
pendium](#)>

219 <[ebXML](#)> The UN and OASIS effort: “Creating a Single Global
Electronic Market”

220 <[Monthly Archives for ebxml-awareness](#)>

221 <[Electronic Business XML Initiative \(ebXML\)](#)> The XML Cover
Pages by Robin Cover < >

222 <[XAML](#)> (Transaction Authority Markup Language) “vendor
neutral that enables the coordination and processing of online

transactions in the rapidly developing in the rapidly emerging
world of XML web services” backed by Hewlet Packard, IBM,
Oracle, and Sun. <[XAML Cover Page](#)> <[FAQ](#)>

<[Bolero](#)> <*>

Bolero backed by about 120 banks and logistics firms is
trying to set up a global standard that would be accepted
by governments, shippers, and banks. In doing so the plan
to tackle such age old legal concepts as the bill of lading.
Bolero plans to use an encrypted communication network
to shuffle documents around the world, a process that's
now hampered by incompatible computer systems and bu-
reaucrats. Bolero is owned 50-50 by the

<[eOriginal](#)> Electronic Original (Steven Bisbee). From
1999

“eOriginal, Inc. has developed and markets, under
two U.S. patents, a fully integrated transaction system
that delivers the trusted means for producing electronic
documents that are unique, secure and reliable for all
business and legal purposes. The company's product
suite, marketed as eOriginal, enables the creation of the
Electronic Original.”

527 **EDI - Electronic Data Interchange**

This list does not attempt to be exhaustive. It provides links to
sources we have found particularly useful, and to other more
comprehensive lists of sources on the subject.

Elsewhere off this site: <[Electronic Commerce com-
pendium](#)>

<[Electronic Commerce and EDI](#)> at NRCCL's Law and Informa-
tion Technology Links Norwegian Research Center for Comput-
ers and Law <[NRCCL](#)>

check UNECE for the United Nations/EDIFACT Stan-

	dards.		
232	Revised articles of draft uniform rules on the legal aspects of electronic data interchange		
233	United Nations Revised draft model statutory provisions on the legal aspects of electronic data interchange		
234	< X12 Transaction Set Index Version 3040 >		
235	< Harbinger > Now holds Premonos materials		
236	< UNeTradeS.net >		
237	< Electronic Commerce & Electronic Data Interchange: Internet Resources > Golden Gate University Library Guide		
238	Electronic Payments		
239	Elsewhere off this site: < Electronic Commerce compendium >		
240	Solutions		
241	< NACHA - Electronic Payments Association > "NACHA is a not-for-profit trade association that develops operating rules and business practices for the Automated Clearing House (ACH) Network and for other areas of electronic payments. ? NACHA activities and initiatives facilitate the adoption of electronic payments in the areas of Internet commerce, electronic bill payment and presentment (EBPP), financial electronic data interchange (EDI), international payments, electronic checks, electronic benefits transfer (EBT) and student lending. We also promote the use of electronic payment products and services, such as Direct Deposit and Direct Payment.		
242	NACHA represents more than 12,000 financial institutions through our network of regional ACH associations.? We have over 600 members in our seven industry councils and corporate Affiliate Membership program."		
		< Internet Council - NACHA >	243
		< Project ACTION > "a program to develop a payment product for Internet transactions utilizing Automated Clearing House (ACH) credits"	244
		< E-Cash Technologies Inc. > "global software solutions that extend and enhance physical-world payment methods"	245
		< Cybercash > "VeriSign and CyberCash join forces to offer complete e-commerce solutions"	246
		< Globeset Trinitech > "securing payment in the digital age"	247
		< Mobey Forum > "a financial industry-driven forum, whose mission is to encourage the use of mobile technology in financial services ... - such as payment, remote banking and brokerage"	248
		< Paypal > Confinity. Paypal now Nokia approved allows you to make instant payments to anyone with a cell phone, two-way pager, or handheld device, such as the Palm? organizer. Permits such things as the settlement of debts, borrowing of cash and splitting of bills/ expenses without the hassle of going to ATMs or keeping track of debts. Paypal is free and works seamlessly with your existing credit card and bank account. PayPal? software can be "beamed" to your friend or business associate who can then be "beamed" money instantly. The system charges your credit card when you next sync your device, and your friend can register later at PayPal.com.	249
		< E-Commerce Guide >	250
		< BigStep > Build your own web-based e-commerce site, free service	251
		< ECML > Electronic Commerce Modeling Language (ECML) is to be a universal format for wallets and merchant web sites. ECML uses a set of uniform field names to streamlines the process by which merchants collect electronic data for shipping, billing, and payment. Its development is a collaboration between: American Express, AOL, Compaq, CyberCash, IBM,	252

	MasterCard, Microsoft, SETCo, Sun Microsystems, Transactor Networks, Trintech, and Visa. 18/06/1999		
253	<FpML> FpML, an XML-based markup language that allows for Net-based integration of services such as electronic trading and risk analysis backed by IBM, PricewaterhouseCoopers and J.P. Morgan. 18/06/1999		
254	<WorldPay>		
255	<NetBanx>		
256	<Payment mechanisms designed for the Internet> by Michael Peirce		
257	<Digital Money, Credit Cards, and Electronic Payment Systems>		
258	<Page of links to resources on Electronic Money or E-Money> by Roy Davies.		
259	<DigiCash (went under)> <Electronic Money (That's What I Want)> (Read up on David Chaum) Article by Steven Levy for HotWired, December 1994. <David Chaum Publications> <How much do you trust Big Brother?> interview of David Chaum, 1997 & the <Mark Twain Bank>		
260	<CyberCash>		
261	<CheckFree> "the undisputed leader in moving money electronically"		
262	<VeriFone>		
263	<Millicent> (Digital / Compaq)		
264	<Open Market>		
265	<MasterCard>		
266	<Visa>		
267	<Hyper Mart> free service with advertising part of the Go2Net network		
268	<Sitematic> monthly charges		
269	<MindSpring Biz> monthly charges		
	<MS Solutions for small businesses>		270
	E-Commerce servers		271
	Discusion		272
	This list does not attempt to be exhaustive. It provides links to sources we have found particularly useful, and to other more comprehensive lists of sources on the subject.		273
	Elsewhere off this site: <Electronic Commerce compendium>		274
	<W3C - Electronic Commerce Interest Group?> W3C has closed its Ecommerce and Micropayment Activity, but through a number of activities W3C is committed to key factors for success in the evolution of Electronic Commerce.		275
	<Guide to Online Payments> US Federal Trade Commission		276
	<NACHA - Electronic Payments Association> NACHA is a not-for-profit trade association that develops operating rules and business practices for the Automated Clearing House (ACH) Network and for other areas of electronic payments. NACHA represents more than 12,000 financial institutions through our network of regional ACH associations.? We have over 600 members in our seven industry councils and corporate Affiliate Membership program.?		277
	<Electronic Payments Forum>		278
	<Electronic Money, or E-Money, and Digital Cash> links by Roy Davies		279
	<Epayment Links> Institute for eCommerce, Carnegie Mellon University		280
	<Electronic Commerce, Payment Systems, and Security> links by Michael Waidner		281
	<Internet Funds Transfer Services - Electronic Payments> Elsop - Electronic Software Publishing Corporation		282

283	«A Bibliography of Electronic Payment Information»		
284	«Links related to Smart Cards and Electronic Payment Systems»		
285	«Payment Systems Information Resources» Federal Reserve Bank of New York		
286	«United States Government Electronic Commerce Policy»		
287	«European ePayments Observatory»		
288	«The Future of Money» edited by Robert Knautz, 1997 Policy Spotlight		
289	«Payment mechanisms designed for the Internet» by Michael Peirce		
290	«Epayment Solutions - page sponsored by IBM»		
291	Joint Electronic Payments Protocol (JEPI) to make it easier for consumers to use multiple payment systems from Web browsers:		
292	«World Wide Web Consortium»		
293	«CommerceNet»		
294	«Millicent» from Digital Equipment Corporation «Information»		
295	Microsoft: «Passport»		
296	«Electronic Money / Internet Payment Systems»		
297	«Network Payment Mechanisms and Digital Cash by Michael Peirce»		
298	«Central Banking Resource Center» Mark Bernkopf		
299	«e\$ Page» Robert Hettinga		
300	«Debt, Money and Ancient Meme»		
301	«21st Century Banking Alert Page» also «Additional Online Resources» and «BancMail Archive» at «Fried, Frank, Harris, Shriver and Jacobson»		
302	«A Bibliography of Electronic Payment Information»		
		Writings and Links to them	
		«E-Commerce Times» News	304
		«A Bibliography of Electronic Payment Systems»	305
		«Alternative Money Systems» «New Civilization Network»	306
		«Money - Past, Present & Future» Sources of Information on Monetary History, Contemporary Developments, and the Prospects for Electronic Money maintained by Roy Davies	307
		«The Future of Money in the Information Age» by the Cato Institute, 1997.	308
		«The Surprise Weapon: Private Enterprise Money» by E. C. Riegel, 1944.	309
		«Array» including the «Journal of Internet Banking and Commerce» and «Journal of Internet Purchasing»	310
		«The Surprise Weapon: Private Enterprise Money» by E. C. Riegel, 1944.	311
		«Implications for Central Banks of the Development of Electronic Money» 11th November 1996 by the «Central Banker's Central Bank» the Bank for International Settlement, Basle, Switzerland.	312
		«Crypto-Anarchy and Virtual Communities» by Timothy C. May (1995)	313
		Commerce Related Sites including «Banking» and «Finance»	314
		Authentication Solutions - Virtual Identities	315
		«Liberty Alliance Project» (Sun etc.)	316
		«Passport» «Passport, Hailstorm, .Net etc.» Microsoft	317
		«Oblix Identity-Based Security Solutions(TM)»	318
		«The DotGNU Project»	319

320	‹Linux-PAM› “Pluggable Authentication Modules for Linux is a suite of shared libraries that enable the local system administrator to choose how applications authenticate users.”	320	‹WTO's work programme on electronic commerce›	338
321	‹PAM - Pluggable Authentication Modules›		‹Electronic Commerce and the European Union› ‹ECLIP›	339
322	‹documentation for Linux-PAM›		‹EU Initiative in Electronic Commerce› 1997	340
323	‹PAM - FAQ›		‹Wassenaar Arrangement›	341
324	‹PAM›		‹Ecommerce› at the ‹Global Information Infrastructure Commission› of the ‹Center for Strategic & International Studies›	342
325	‹User Authentication HOWTO› “Explains how user and group information is stored and how users are authenticated on a Linux system (PAM), and how to secure your system's user authentication.” by Peter Hernberg		This group backed “The Commerce Standard”, described as: a uniform open and free standard for Electronic Commerce. Ziff-Davis publisher initiative developed collaboratively with more than 200 top global Internet merchants, IT vendors, analysts, policymakers, consumer advocates, academics and journalists in an effort to establish a set of merchant practices and policies. Topics for Draft 1.0 include: merchant information, product availability, charges and fee information, warranties, product support, search capabilities, privacy, security, payment and billing, receipt of order notification, order status and history, shipping delivery and order execution, cancellations, returns, refunds and customer support. Launched in 12 July 1999, completion planned for December 1999. Global Information Infrastructure.	343
326	Government and other Documents: Stands/Approaches to Electronic Commerce		‹Global Business Dialogue on Electronic Commerce› ‹(GBDe)›	344
327	This list does not attempt to be exhaustive. It provides links to sources we have found particularly useful, and to other more comprehensive lists of sources on the subject.		An international non-governmental organization, managed by executives of 29 major enterprises in the United States, Europe and Asia, that promotes establishing global rules for electronic commerce over the Internet.	
328	Elsewhere off this site: ‹Electronic Commerce compendium›		GBDe member companies submit requests for legal arrangements for electronic commerce representing the interest of industries during the first GBDe convention held on 13 September 1999 in Paris, and these will be submitted to the government of each country.	345
329	‹Electronic commerce in the WTO›		The following nine themes will be covered: (1) authentication and security, (2) consumer credibility, (3) contents/business communication, (4) inter-operability of	346
330	‹Electronic Commerce› at the International Chamber of Commerce			
331	‹United States Government Electronic Commerce Policy›			
332	‹International Sites›			
333	‹A Framework for Global Electronic Commerce›			
334	‹A Framework For Global Electronic Commerce›			
335	‹W3C Activities Related to the US “Framework for Global Electronic Commerce”›			
336	‹Electronic Commerce and the European Union›			
337	‹Legal Aspects of the E-Revolution› European Commission - Information Society Directorate-General			

information infrastructure and governance, (5) intellectual property, (6) control, (7) reliability, (8) protection of private data and (9) taxes/tariffs.

347 Member companies include: Japan - Fujitsu Ltd., NEC Corp., Toshiba Corp., Mitsui & Co., Ltd., Mitsubishi Bank Ltd., Nippon Telegraph and Telephone Corp; North America - IBM Corp., MCIWorldcom Inc., Nortel Networks Corp., Time Warner Inc. and Walt Disney Co.; Europe - France Telecom, Nokia of Finland, DaimlerChrysler Corp. of Germany and others.

348 Cybercrime

349 <Convention on Cybercrime> Budapest, 2001, Council of Europe

350 <Other COE Pages related to the Convention on Cybercrime>

351 <Draft Convention on Cyber-crime (Draft N? 19)> politechbot

352 Privacy

353 See also <Linux Encryption>

354 <Electronic Privacy Information Center>

355 <P3P> WWW Consortium

356 <Encryption, Security & Privacy News> All E-Commerce

357 <What's Hot in Encryption - Bulletins> EFF

358 <GPG - The GNU Privacy Guard> (Open PGP)

359 <Privacy Foundation>

360 NoN-Privacy / Security?

361 <Echelon Watch> administered by ACLU (American Civil Lib-

erties Union) in conjunction with the Free Congress Foundation, the Electronic Privacy Information Center, Cyber-Rights and Cyber-Liberties (UK) and the Omega Foundation.

<Echelon Watch> Cyber-Rights & Cyber-Liberties (UK) 362

<Statewatch> monitoring the state and civil liberties in the European Union 363

Interest Groups & Campaigns 364

Interest Groups \046 Campaigns Campaigns\046

364tinyThis list does not attempt to be exhaustive. It provides 365

links to sources we have found particularly useful, and to other more comprehensive lists of sources on the subject. tiny

Elsewhere off this site: <Electronic Commerce compendium> 366

tiny<Wassenaar Arrangement> tiny<Center for Democracy 367

and Technology> tiny<Center for Media Education> tiny<Cyber 368

Rights and Cyber Liberties U.K> a non-profit civil liberties 369

organisation founded by Yaman Akdeniz. Information on 370

<Wassenaar> and on the UK <Freedom of information Files>

tiny<Distributed.Net> tiny<Electronic Freedom Frontier> tiny 371

<Electronic Frontier Foundation> tiny<Electronic Privacy Infor- 372

mation Center> tiny<EU Freedom Campaign*> tiny<Foundation 373

for Taxpayer and Consumer Rights> tiny<CryptoRights Founda- 374

tion> tiny<Global Internet Liberty Campaign> tiny<International 375

Cryptography Campaign> tiny<Echelonwatch> tiny<The Internet 376

Law and Policy Forum> "dedicated to promoting global growth 377

of e-commerce by contributing to a better understanding of the 378

particular legal issues which arise from the cross border nature 379

of the electronic medium" tiny<Free Congress Foundation> 380

tiny<the American Civil Liberties Union> tiny<Center for Media 381

Education> tiny<Security Forum> *Industry tiny<Direct Mar- 382

keting Association> tiny<Interactive Services Association> tiny 383

<TRUSTe> tiny<Global Information Infrastructure Commission>

This group backed "The Standard for Internet Commerce", described as: a uniform open and free standard for Electronic Commerce. ZiffDavis publisher initiative developed collaboratively with more than 200 top global Internet merchants, IT vendors, analysts, policymakers, consumer advocates, academics and journalists in an effort to establish a set of merchant practices and policies. Topics for Draft 1.0 include: merchant information, product availability, charges and fee information, warranties, product support, search capabilities, privacy, security, payment and billing, receipt of order notification, order status and history, shipping delivery and order execution, cancellations, returns, refunds and customer support. Launched in 12 July 1999, completion planned for December 1999. Global Information Infrastructure. tiny <Global Business Dialogue on Electronic Commerce> <(GBDe)> An international non-governmental organization, managed by executives of 29 major enterprises in the United States, Europe and Asia, that promotes establishing global rules for electronic commerce over the Internet. ParagraphIndent0mmGBDe member companies submit requests for legal arrangements for electronic commerce representing the interest of industries during the first GBDe convention held on 13 September 1999 in Paris, and these will be submitted to the government of each country.

393 The following nine themes will be covered: (1) authentication and security, (2) consumer credibility, (3) contents/business communication, (4) inter-operability of information infrastructure and governance, (5) intellectual property, (6) control, (7) reliability, (8) protection of private data and (9) taxes/tariffs.

394 Member companies include: Japan - Fujitsu Ltd., NEC Corp., Toshiba Corp., Mitsui & Co., Ltd., Mitsubishi Bank Ltd., Nippon Telegraph and Telephone Corp; North America - IBM Corp., MCIWorldcom Inc., Nortel Networks Corp.,

Time Warner Inc. and Walt Disney Co.; Europe - France Telecom, Nokia of Finland, DaimlerChrysler Corp. of Germany and others.

Electronic Commerce Resource Sites

<eComInfoCenter.com>	395
<Summary Of Electronic Commerce And Digital Signature Legislation> McBride Baker & Coles !pick	397
<E-Business Research Center> CIO	398
<E-Commerce> Follesdal, Coolconnect (check details)	399
<Technology-Neutral, Non-PKI, Minimalist E-Commerce Legislation>	400
<E-Commerce News Archive>	401
<Electronic Commerce and EDI> NRCCL's Law and Information Technology Links	402
<E-Commerce Project> America Online	403
<Electronic Commerce> by Michael Waidner	404
<Electronic Commerce Online Resources> List maintained by Gilbert & Tobin, Australia	405
<Electronic commerce section of the WTO website>	406
<WTO's work programme on electronic commerce>	407
<Electronic Commerce> at the International Chamber of Commerce	408
<US Government Ecommerce Policy>	409
<Ecommerce> at the <Global Information Infrastructure Commission> of the <Center for Strategic & International Studies>	410
<Electronic Commerce> Morino Institute	411
<Electronic Commerce and the European Union>	412
<European Internet Forum> (including Globalisation and the Information Society; Digital signatures and encryption; Internet Governance)	413

414 <DTI ECommerce> UK Department of Trade and Industry
 415 <DTI E-Commerce Directive>
 416 <Communications and information industries>
 417 <Electronic Commerce Library> American Bar Association: “a
 research project funded by the European Commission's DG
 XIII, which seeks to set up a platform on the legal issues of elec-
 tronic commerce with the objective of providing legal support to
 EC-funded RTD projects on any issue of law linked to electronic
 commerce, thereby stimulating expertise and increasing gener-
 al awareness of the existing or recommended legal frame-
 work of electronic commerce.”
 418 <E-Comm Links> E-Commerce Task Force, Canada
 419 <Center for Law, Commerce and Technology> School of Law
 University of Washington
 420 <Electronic Frontiers Australia> “representing Internet users
 concerned with on-line freedoms”
 421 <The Commerce Standard> The Standard for Internet Com-
 merce is a uniform open and free standard for Electronic
 Commerce. ZiffDavis publisher initiative developed collab-
 oratively with more than 200 top global Internet merchants,
 IT vendors, analysts, policymakers, consumer advocates,
 academics and journalists in an effort to establish a set of
 merchant practices and policies. Topics for Draft 1.0 include:
 merchant information, product availability, charges and fee
 information, warranties, product support, search capabili-
 ties, privacy, security, payment and billing, receipt of order
 notification, order status and history, shipping delivery and
 order execution, cancellations, returns, refunds and customer
 support. Launched in 12 July 1999, completion planned for
 December 1999. Global Information Infrastructure.
 422 <Global Business Dialogue on Electronic Commerce> <(GBDe)>
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 Ltd., Nippon Telegraph and Telephone Corp; North Amer-
 ica - IBM Corp., MCIWorldcom Inc., Nortel Networks Corp.,
 Time Warner Inc. and Walt Disney Co.; Europe - France
 Telecom, Nokia of Finland, DaimlerChrysler Corp. of Ger-
 many and others.

<Guidelines of the Electronic Commerce and Consumer Pro- 426
 tection Group> [the “Group” appears to be gone] (America On-
 line, AT&T, Dell Computer Group, IBM, Microsoft, Network So-
 lutions, Time Warner Inc., Visa USA Inc)

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