HEINONLINE

Citation: 4 Bernard D. Reams Jr. Law of E-SIGN A Legislative of the Electronic Signatures in Global and National Act Public Law No. 106-229 2000 0 2002

Content downloaded/printed from HeinOnline (http://heinonline.org) Sun Apr 21 21:35:14 2013

- Your use of this HeinOnline PDF indicates your acceptance of HeinOnline's Terms and Conditions of the license agreement available at http://heinonline.org/HOL/License
- -- The search text of this PDF is generated from uncorrected OCR text.

had a major impact on the health of their

Their presence and availability of services has significantly lowered unnecessary use of costlier, less appropriate settings such as hospital emergency rooms and "Medicaid mills".

Their consolidation of both preventive comprehensive primary care services under one roof has measurably reduced the fre-quency and cost of preventable illnesses.

Their experience in case management has brought about a substantial reduction in specialty care and hospital admissions, saving millions of dollars for the health care sys-

Despite the poorer overall health of their patients, studies have shown that health centers are tremendously effective in reduccenters are tremendously effective in reducing total health care costs for their patients. Recent studies in California, Maryland, and New York show that those states incurred 30% lower cost per case for Medicald recipients who were regular patients of community health centers than for Medicald recipients who used other providers. These findings underscore those in a earlier 5-day study that showed significant Medicald savings through use of health centers.

TRIBUTE TO DR. MARTIN MARTY, MEDAL OF HUMAN-MATTOMAT ITIES RECIPIENT

HON, WILLIAM O. LIPINSKI

OF ILLINOIS

IN THE HOUSE OF REPRESENTATIVES

Saturday, November 8, 1997

Mr. LIPINSKI, Mr. Speaker, I rise today to congratulate one of my constituents from the Third Congressional District of Illinois, Dr. Martin Marty of Riverside, IL. Dr. Marty was awarded the National Medal of Humanities for his work in theology. Dr. Marty was presented his Medal by President Clinton on September 29, 1997.

Dr. Marty is a prolific writer and is the a thor of 50 books and over 4,300 articles. He is the senior editor of the weekly magazine Is the senior end of the weaky magazine Christian Century. In addition to his column in the Christian Century, Dr. Marty circulates his own biweekly newsletter entitled Context. Dr. Marty also teaches a class in religion twice a week at the University of Chicago.

week at the University of Chicago.

The National Medal of Humanities was not the first time Dr. Marty has been recognized for his outstanding work. Dr. Marty is the hoter of 56 honorary degrees from prestigious universities throughout the world.

Dr. Marty is happily married to his wife Har-riet, who accompanied him to dinner at the White House. The Martys also have a son, Micah. Father and son have collaborated on several books, with father supplying the text to the spectacular photos taken by the son. The are members of Ascension Lutheran Church in Riverside.

I urge my colleagues in the House of Re resentatives to join me in congratulating Dr. Marty for his fine work. He is a man of incredible spiritual insight with a gift for fine writing. Dr. Marty, I commend you for all your literary contributions and I congratulate you on your National Medal of the Humanities. I hope you continue your work and I wish you the best of luck in the future.

CONCERN ABOUT EXPORTS AND DOMESTIC CONTROLS

HON, BRAD SHERMAN OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES Saturday, November 8, 1997

SHERMAN, Mr. Speaker, the Clinton administration policy on encryption makes no sense, is costing the United States critical export dollars, and threatens the fundamental privacy rights of all Americans in the information age.

For an administration that claims it is sympathetic to and supportive of America's pathetic to and supportive of Americas high tech practitioners, what is happening today demonstrates exactly the opposite. Because for all the complexity of designing top of the line computer products and programs with information security—encryption—features, the issues here are not complex at all.

Encryption is both the first and the last line of defense against hackers who would like to

get into bank accounts or pry loose credit card information that can cost consumers and businesses dearly. Encryption is crucial for pro-tecting customers and companies from criminal intrusion into both their private lives and their businesses Yet the administration says it is addressing

the concerns of national security and law en-

forcement by refusing to permit the export of software with 56 bits or greater encryption pro-

software with so his of greater entraphum vietoction, unless the company agrees to commit to build key recovery products. It also suggests that the war against criminals, such a pornographers, credit card thieves, terrorists and others too numerous and too diverse to mention, will be all for naught unless government eavesdroppers are handed the keys to unlock all the billions of electronic trans-missions that are made every day in today's ectronic information age.

Now as ridiculous as it might seem that this administration wants the capacity to tune in on everything going through the airwaves; never-theless, that is the tool they say they need to

theless, that is the tool they say they need to protect all of us from today's criminal elements, it is rather mind-boggling to contemplate how the Federal payroll might explode if the NSA and the FBI were given the opportunity to monitor the messenger traffic that goes on every day of the week . But it is also mind-boggling to contemplate the picture of Uncle Sam riding roughshod over privacy rights that have been guaranteed under our Constitution since the days of our Founding If American firms had a monopoly on

encryption skills, and if these products were not available from anyone on either side of the not available from anyone on either side of the Atlantic or Pacific, perhaps an argument could be made for restricting exports of products with encryption that could not be reproduced elsewhere. But that is not the case. What in fact the administration has done, and is doing, is creating, in the words of the New York Times, "a bonanza for alert entrepreneurs outside the United States." And even then I see

yption within the United States. I call my colleagues attention to an article from the New York Times of April 7, 1997. It tells the story of how the German firm of Brokat Information Systems has carved out a booming business selling powerful encryption technology around the world that the United

States Government prohibits American compa-States Government promints American companies from exporting. This German company actually markets its products by telling potential purchasers that they shouldn't use American export-crippling products.
This should serve as a reminder that even if Congress should pass and the President

should sign Fast Track authority to negotiate new trade agreements with some of our Latin

American neighbors, we are not going to turn our trade deficit around if we persist on handing on a silver platter to foreign competitors markets that should be dominated by Amer ican firms At this point I would like to insert the article from the New York Times, of April 7, entitled "U.S. Restrictions on Exports Aid German

Software Maker." [From the New York Times, Apr. 7, 1997] U.S. RESTRICTIONS ON EXPORTS AID GERMAN SOFTWARE MAKER

(By Edmund L. Andrews)

(By Edmund L. Andrews)
Bobellancen, Germann, April 3.—Borts
Anderer and his four partners have a message for the spy masters in America's national security establishment: thank you
very, very much.
Mr. Anderer is the managing director for
marketing at Brokat Informationsystems
G.m.b.H., a three-year-old software company
here than is growing about fast as it can
when America Online wanted to offer online banking and shopping services in Europe, it turned to Brokat for the software
that encodes transactions and protects them that encodes transactions and protects them from hackers and on-line bandits. When Netscape Communications and Microsoft wanted to sell Internet software to Ger-

Netscape Communications and Microsoft wanted to sell Internet software to Germany's biggest banks, they had to team up with Brokat to deliver the security guarantee that the banks demanded. But what is most remarkable is that Brokat's rapid growth stems in large port from the Alice in Wonderland working of American computer policy. Over the last two years, Brokat and a handful of other European companies have carved out a booming business selling powerful encryption technology around the world that the United States Covernment prohibits American com-

nology around the world that the United States Government prohibits American companies from exporting. Mr. Anderer could not be happier. "The biggest limitation on our growth is finding enough qualified people," he said, as he strode past rooms filled with programmers dressed in T-shirts and blue jeans.

The company's work force has climbed to 110 from 30 in the last year, and the company wants to add another 40 by the end of the year.

110 from 30 in the last year, and the company wants to add another 40 by the end of the year.

110 from don't know whether the people 1 see here have just started working or are just vistors. The said.

111 Encryption technology has become a big battleground in the evolution of electronic commerce and the Internet. As in the United States, European banks and corporations are racing to offer on-line financial services, and many of these services are bullt around Internet programs sold by American companies like Netscape and Microsoft.

Cryptography is crucial because it provides the only means for protecting customers and companies from electronic cavesdroppers.

Although the market for encryption software is in itself timy, it is a key to selling the companies from electronic exvesdroppers.

Although the market for encryption software is in itself timy, it is a key to selling the control of the service of of the services and transaction-processive of Internet servers and transaction-processive of the servers and transaction-processive of the servers and transaction-processive desired and the servers and transaction-processive desired the servers and transaction-processive desired and the se

credit card information and raid bank ac-counts, so it plays a critical role in the sale of Internet servers and transaction-process-ing systems.

Brokat, which has revenues of about 10 million marks (\$6 million), uses its cryptog-raphy as a door-opener to sell much more complicated software that securely links conventional bank computer systems to a bank's internet gateways and on-line services. Netscape, Microsoft and computer equipment manufacturers all include sell picture of the property of the computer of the property of the property

sell to corporations.

But the United States Government blocks But the United States Government of the American companies from exporting advanced encryption programs, because agencies like the Federal Bureau of Investigation and the National Security Agency fear that they will lose their ability to monitor the communications of suspected terrorists and criminals.
Far from hindering the spread of powerful

rar from hindering the spread of powerful encryption programs, however, American policy has created a bonanza for alert entre-preneurs outside the United States. Brokat's policy has created a bonaria for alert entre-preneurs outside the United States. Brokat's hottest product is the Xpresso Security Package, a set of computer programs that bump up the relatively weak encryption ca-pability of Internet browsers from Netscape and Microsoft. nd Microsoft.

Besides America Online, Brokat's cus-

and Microsoft. Besides America Online, Brokat's customers include more than 30 by banking and financial institutions around Europe. Deutsche Bank A.C., Germany's biggest bank, and the second of the

companies said in a statement, in a stinging

companies said in a statement, In a stinging swipe at the American export restrictions. Bigger companies are starting to jump into the fray as well. Stemens-Nikdorf, the computer arm of Stemens A.G., recently began marketing a light-security Internet server program that competes with products from Netscape. Companies can download the soft-netscape. Companies can download the soft-

ware from Siemens computers in Ireland.

There is nothing illegal or even surprising about this. The basic building blocks for adabout this. The basic building blocks for advanced encryption technology, in a series of mathematical algorithms or formulas, are all publicly available over the Internet. American companies like Netscape sell strong encryption programs within the United States, and companies like Brokat are even allowed to export their product to customers in the United States Countries, the real mystery is why the United States (or even ment continues to restrict the export of encryption technology. "The genie is out of the bottle," said Peter Harter, global public policy counsel an Netscape, who complained that American policy thwarts his company's ability to compete.

that American policy thwarts his company's ability to compete.

"I have a good product, and I can sell it to Cittbank, but I can't sell it to Deutsche Bank," Mr. Harrer sald. "It doesn't make any sense. Why shouldn't they be able to buy the same product at Citibank? It makes them mad, and it makes us mad."

them mad, and it makes us mad." In response to industry complaints, American officials have repeatedly relaxed the restrictions on encryption over the last several years, and they did so again last November. But because the speed of computers has increased so rapidly, codes that seemed impenetrable Just a few years ago can be cracked within a few hours.

In a policy announced last fall, the Clinton in a policy announced tast ini, the Clinton Administration announced that it would allow American companies to freely export cryptography that used "keys" up to 40 bits in length. The longer the key, the more difficult a code is to crack. But banking and computer executives say that 40-bit codes are no longer safe and can be cracked in as little as a few hours by skilled computer backers. The minimum acceptable code, according to many bank executives, must have keys that are 128 bits long.

"From our point of view, there is at least the possibility that a 40-bit encryption program can be broken, and that means there is a danger that our transaction processing could be compromised," said Bernd Erlingheuser, a managing director at the Bank 24 unit of Deutsche Bank. Bank 24 has about 110,000 customers in Germany who gain access to banking services over the about 110,000 customers in Germany was gain access to banking services over the Internet using either the Netscape Navigator or Microsft's Internet Explorer.

Anette Zinsser, a spokeswoman for Hypo Bank, concurred. "Forty bits is just too low," she said. Hypo Bank offers Internet-based banking and discount brokerage serv-ices to about 28,000 customers.

In a country not known for high-technology start-ups, Brokat jumped at the op-portunity. Mr. Anderer, a former consultant at McKinsey & Company in Germany teamed up three years ago with two fraternity friends, Michael Janssen and Stefan Roever. and two seasoned computer experts. Achim Schlumpberger and Michael Schumacher

The group originally conceived of building company around modular software compoa company around modular sortware company nents that were designed for the banking in-dustry, and they financed the company for nearly two years through the money they earned from consulting projects. But they were quickly drawn in the area of encryption, and developed a series of programs around the Java technology of Sun Microsystems.

The Xpresso encryption package is installed primarily on the central "server" computers that on-line services use to send material to individual personal computers. Customers who want to connect to a bank's server download a miniature program, or applet, that meshes with their appret, that meshes with their Internet browser program and allows the customer's computer to set up an encrypted link with the server. The effect is to upgrade the 40-bit encryption program to a 128-bit program, which is extremely difficult for outsiders to

Now, in another step through the looking glass of encryption policy, Brokat is trying to export to the United States. There is no law against that, but American laws would theoretically prohibit a company that used Brokat's technology from sending the applets to their online customers overseas. the company is now negotiating with the National Security Agency for permission to let American companies send their software overseas, which is where it started from in the first place.

It Brokat convinces the spy masters, the precedent could help American software rivals. "This could open a new opportunity that would benefit American companies if they understand the implications." Mr. Anderer said

NATIONAL. COUNCIL OF SENIOR ATIONAL COUNCIL OF SENIOR CITIZENS: KYL AMENDMENT WOULD PUT ELDERLY AND DIS-ABLED CITIZENS AT SERIOUS FI-NANCIAL AND MEDICAL RISK

HON. FORTNEY PETE STARK

OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES

Saturday, November 8, 1997

Mr. STARK. Mr. Speaker, following is a let-Mr. Starkk. Mr. Speaker, following is a let-ter from the National Council of Senior Citi-zens spelling out why the Kyl-Archer amend-ment is bad for seniors and the disabled and for the Medicare Program.

I urge Members to oppose this amendment. As the public begins to understand what this amendment would do, they will overwhelm-ingly reject this proposal and the Members vote for it:

NATIONAL COUNCIL OF SENIOR CUTTZENS,
Silver Spring, MD, October 30, 1997.
DEAR SENATOR: The National Council of

DEAR SENATOR: The National Council of Senior Citizens strongly opposes any legislation which would reopen the Balanced Budger Act (BBA) for the purpose of limiting or repealing the two-year bar to any Medicare-billings after a doctor enters a private payment contract with a Medicare-eligible person, Passage of H.R. 2997. He Medicare Beneficiary Freedom to Contract Act of 1997, would declimate the Medicare program by removing cost protections while reducing the supply of doctors serving the needs of the overwhelming majority of Medicare users. NCOA opposed, and continues to eppose.

overwherining inajority of medicare users.

NCOA opposed, and continues to oppose, the inclusion of the original Kyl Amendment to the Medicare program. Such a provision, allowing a doctor to contract privately for medical care payments outside of the Medicare program, promises to shred three dec-ades of essential quality, consumer, and fi-nancial protections which have been incor-porated into Medicare.

porated into Medicare.

As enacted, the Kyl Amendment did include the provision barring for two years another Medicare billings subsequent to an
agreement for privately-paid Medicare-coyered services. Clearly, this could inhibit
widespread utilization of the private contract option by many doctors who have not
heretofore, in large numbers, declined Medicare payments. Removal of this bar would
open the Medicare program to opportunities
of "freedom to contract."

Fewer than 5% of all doctors decline to

of "freedom to contract."

Fewer than 5% of all doctors decline to treat Medicare patients, and only 1% of Medicare beneficiaries have trouble finding doctors. The current doctor-patient Medicare market works well, with no shortage of physicians willing to accept Medicare payments. Hr. 240° will allow doctors to legally pick and choose patient-by-patient, service-by-patient professional contraction of the profe hedicare's ability to hold down health care costs and would put elderly and disabled citi-zens at serious financial and medical risk.

zens at serious linancial and menciar irss. We plodge every effort to defeat H.R. 2497 or any similar bill and to restore Medicare to its responsibility to cover the costs of an essential set of quality medical services provided by competent doctors and institutions on a uniform and universal basis.

Strangentum Sincerely.

STEVE PROTILLIS.

