

CYBERWAR: A MILITARIZAÇÃO DA INTERNET

Militarização das redes,  
microeconomia do controle e  
vigilância massiva

Sergio Amadeu da Silveira  
@samadeu  
ACTANTES / UFABC

# IN ATHENA'S CAMP

PREPARING  
FOR CONFLICT  
IN THE  
INFORMATION  
AGE

John Arquilla  
David Ronfeldt

Foreword by  
Alvin and Heidi Toffler

RAND National Defense Research Institute

# In Athena's Camp

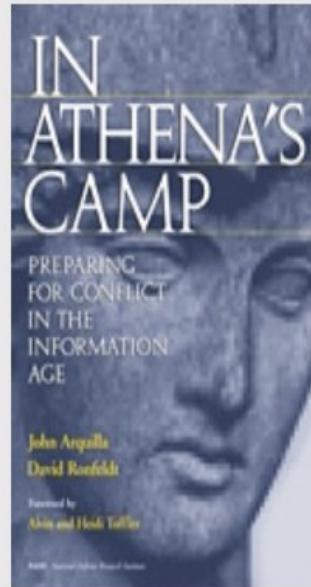
## Preparing for Conflict in the Information Age

Edited by John Arquilla, David Ronfeldt

Related Topics: Communication Technology,  
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The information revolution — which is as much an organizational as a technological revolution — is transforming the nature of conflict across the spectrum: from open warfare, to terrorism, crime, and even radical social activism. The era of massed field armies is passing, because the new information and communications systems are increasing the lethality of quite small units

### Document Details

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John Arquilla e David Ronfeldt:

“Preparação para o conflito neste mundo exigirá a mudança para novas formas de organização... a informação e o conhecimento estão se tornando os elementos-chave do poder.”

John Arquilla e David Ronfeldt:

“Isso implica, entre outras coisas,  
de que Marte, o antigo deus da força bruta e da guerra,  
deve dar lugar a Atena, a bem armada deusa da sabedoria.

Aceitar Athena como patrona desta era da informação  
representa um primeiro passo, não só para a preparação  
para conflitos futuros, mas também para preveni-los.”

*Cryptorave 2014 São Paulo*

John Arquilla e David Ronfeldt:

Fronteira terrestre

Fronteira marítima

Fronteira aérea

Fronteira aeroespacial

Fronteira interna

Fronteira ciberespacial





DA Nation







@samadeu

O tráfego global de dados na internet poderá atingir 1,4 zettabytes por ano, até 2017, índice três vezes superior ao observado em 2012.

Base: pesquisa Visual Networking Index,  
realizada anualmente pela multinacional americana Cisco

@samadeu

# Um Zettabyte

é uma unidade de informação ou memória. Correspondente a  
1.000.000.000.000.000.000 (10<sup>21</sup>) Bytes.

Fonte: wikipedia

Múltiplos do byte					
Prefixo binário (IEC)			Prefixo do SI		
Nome	Símbolo	Múltiplo	Nome	Símbolo	Múltiplo
byte	B	$2^0$	byte	B	$10^0$
kibibyte	KiB	$2^{10}$	Kilobyte	kB	$10^3$
mebibyte	MiB	$2^{20}$	megabyte	MB	$10^6$
gibibyte	GiB	$2^{30}$	gigabyte	GB	$10^9$
tebibyte	TiB	$2^{40}$	terabyte	TB	$10^{12}$
pebibyte	PiB	$2^{50}$	petabyte	PB	$10^{15}$
exbibyte	EiB	$2^{60}$	exabyte	EB	$10^{18}$
zebibyte	ZiB	$2^{70}$	<b>zettabyte</b>	ZB	$10^{21}$
yobibyte	YiB	$2^{80}$	yottabyte	YB	$10^{24}$

@samadeu

Cada zettabyte equivale a  
1 trilhão de gigabytes,

Equivalente a 1 bilhão de  
DVDs assistidos por dia  
durante um ano inteiro.







*Cryptorave 2014 São Paulo*

A CIBERGUERRA NÃO TEM FRONTEIRAS...  
NÃO RESPEITA CIDADÃOS, NEM INSTITUIÇÕES...

## Militarização da Internet:

A vigilância massiva se realiza a partir da entrega de nossas informações para um conjunto de corporações de TI

## Telecommunications Industry Association (TIA):

“The ICT industry is very aware of the cyber threats being faced by U.S. institutions, and it continues to play an important role in detecting, preventing, mitigating, and responding to those rapidly changing threats.”

*Cryptorave 2014 São Paulo*

persuasive soft power  
&  
military hard power

Series: Glenn Greenwald on security and liberty

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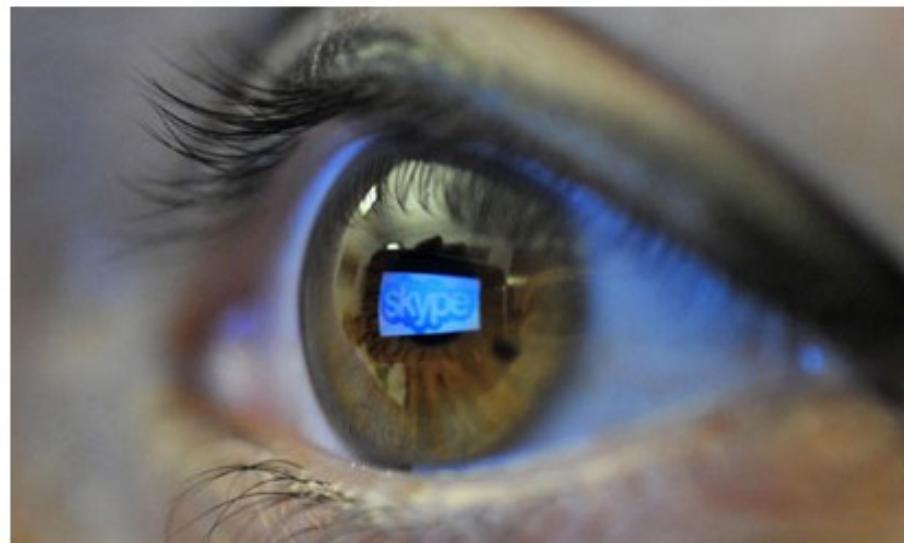
# How Microsoft handed the NSA access to encrypted messages

- Secret files show scale of Silicon Valley co-operation on Prism
- Outlook.com encryption unlocked even before official launch
- Skype worked to enable Prism collection of video calls
- Company says it is legally compelled to comply

Glenn Greenwald, Ewen MacAskill, Laura Poitras, Spencer Ackerman and Dominic Rushe

The Guardian, Friday 12 July 2013

 [Jump to comments \(3514\)](#)



Skype worked with intelligence agencies last year to allow Prism to collect video and audio conversations. Photograph: Patrick Sinkel/AP

Microsoft has collaborated closely with US intelligence services to allow users' communications to be intercepted, including helping the National

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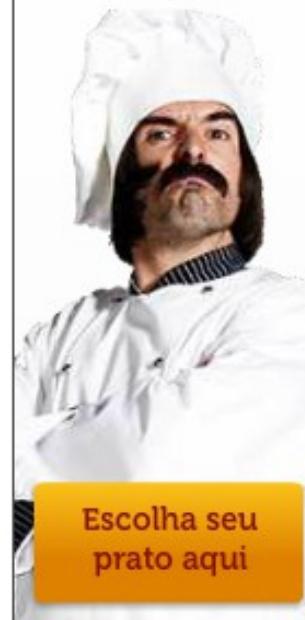
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O RESTAURANTE,  
A COMIDA E  
COMO VAI PAGAR.**



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# Política de Privacidade do Windows 8 e do Windows Server 2012

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Última atualizaçāo: agosto de 2012



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Esta é uma política que enumera recursos que se comunicam com a internet, sem nenhuma pretensão de servir como uma lista completa.

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As informações pessoais que coletamos de você serão usadas pela Microsoft e suas subsidiárias e afiliadas controladas para habilitar os recursos que você utiliza e para prestar os serviços ou desempenhar as transações que você solicitou ou autorizou. Essas informações também podem ser usadas para analisar e melhorar os produtos e serviços da Microsoft.

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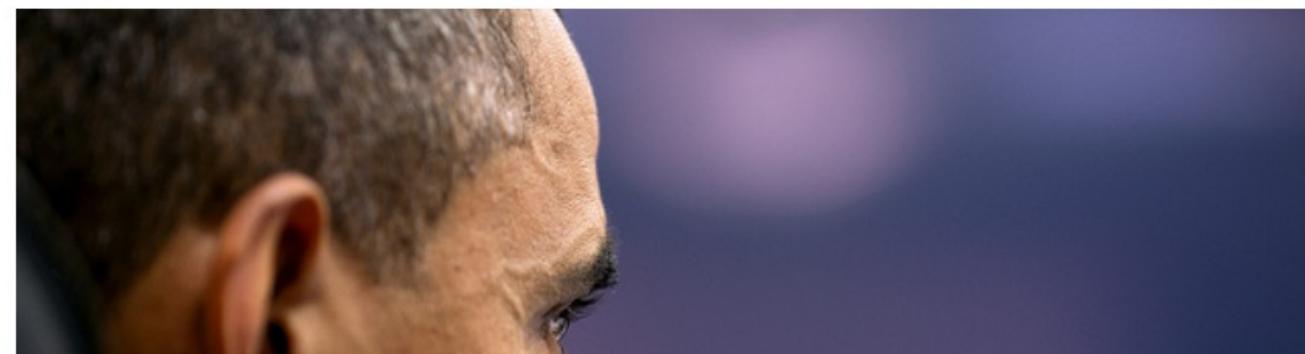
## Drone Warfare

### More than 2,400 dead as Obama's drone campaign marks five years

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January 23, 2014 by [Jack Serle](#)

Published in: [All Stories](#), [Covert Drone War](#), [Drone Warfare](#)



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JAN 23, 2014 | Press Release

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## H.R.624 - Cyber Intelligence Sharing and Protection Act

113th Congress (2013-2014)

**BILL****Sponsor:** [Rep. Rogers, Mike J. \[R-MI-8\]](#) (Introduced 02/13/2013)**Cosponsors:** 37**Latest Action:** 04/22/2013 Received in the Senate and Read twice and referred to the Select Committee on Intelligence.**Committee Reports:** [H. Rept. 113-39](#)**Major Recorded Votes:** 04/18/2013 : [Passed House](#)**Tracker:**[Introduced](#) → **Passed House** → [Passed Senate](#) → [To President](#) → [Became Law](#)**More on This Bill**[Constitutional Authority Statement](#)[CBO Cost Estimates](#)**Primary Subject:**  
Armed Forces and National Security[View all subjects »](#)[Hide Overview](#) ×[Summary \(3\)](#)[Text \(4\)](#)[Actions \(80\)](#)[Titles \(4\)](#)[Amendments \(11\)](#)[Cosponsors \(37\)](#)[Committees \(3\)](#)[Related Bills \(1\)](#)

# CISPA



## WEBSITE BLOCKED

This site has been blocked to Americans by  
the U.S. Government Firewall

What if the sites you love  
were turned against you?



CISPA turns websites  
into government spies.

Don't let it happen. Share this flyer. Join the protest.  
[SitesNotSpies.org](http://SitesNotSpies.org) Spring 2013

# CISPA

O projeto de lei CISPA quer legalizar a articulação entre as empresas e o governo federal para compartilhar informações com a finalidade de prevenir ou organizar a defesa diante de ataques cibernéticos.

# CISPA

O projeto CISPA autoriza expressamente o monitoramento de nossas comunicações privadas. Foi escrito de uma forma tão abrangente que permitirá que as empresas entreguem grandes conjuntos de informação pessoais às agências de inteligência sem nenhuma fiscalização judicial.

# CISPA

O projeto de lei CISPA foi aprovada na Câmara por 288 votos (92 Democratas e 196 Republicanos) contra 127, em 18/04/2013.

Desde 22/04/2013 está tramitando no Senado norte-americano.

# CISPA

O apoio ao  
projeto de lei CISPA deixa claro  
quais as fronteiras da ciberguerra...

<http://intelligence.house.gov/>

# facebook

February 6, 2012

The Honorable Mike Rogers  
Chairman  
House Permanent Select Committee on Intelligence  
Capitol Visitors Center, HVC-304  
US Capitol Building  
Washington, DC 20515

The Honorable Dutch Ruppersberger  
Ranking Member  
House Permanent Select Committee on Intelligence  
2435 Rayburn House Office Building  
Washington, DC 20515

Dear Chairman Rogers and Ranking Member Ruppersberger:

I am writing on behalf of Facebook to commend you on your legislation, the "Cyber Intelligence Sharing and Protection Act of 2011," which addresses critical needs in cyber security. Your thoughtful, bipartisan approach will enhance the ability of companies like Facebook to address cyber threats.

Effective security requires private and public sector cooperation, and successful cooperation necessitates information sharing. Your legislation removes burdensome rules that currently can inhibit protection of the cyber ecosystem, and helps provide a more established structure for sharing within the cyber community while still respecting the privacy rights and expectations of our users. Through timely sharing of threat information, both public and private entities will be able to more effectively combat malicious activity in cyberspace and protect consumers.

More than 800 million people worldwide entrust Facebook with their information, and maintaining that trust is vital to our success and at the core of everything we do. Securing information requires a multi-pronged approach and we employ legal, security, and engineering experts to ensure the integrity of the site. We work regularly with analysts, engineers, fraud experts, and security investigators to prevent abuse, defeat criminals, and help maintain Facebook as a trusted environment. We work closely with the rest of the security community to defend against existing threats, anticipate new ones, and arm people with the tools they need to protect themselves. Your bill will assist our efforts by facilitating this kind of cooperation.

We want to thank you again for your legislation addressing demonstrated cyber security needs, and look forward to continuing to work with you and your colleagues on this important issue.

Sincerely,



Joel Kaplan  
Vice President, U.S. Public Policy

HP\_letter.pdf

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Hewlett-Packard Company  
3000 Hanover Street  
Palo Alto, CA 94304 - 1112

hp.com



April 17, 2013

The Honorable Mike Rogers  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable C. A. Dutch Ruppersberger  
U.S. House of Representatives  
Washington, D.C. 20515

Dear Chairman Rogers and Ranking Member Ruppersberger:

I am writing to express our strong support of your cybersecurity legislation, H.R. 624, the Cyber Intelligence Sharing and Protection Act of 2013.

As the world's largest provider of information technology (IT) infrastructure, software, services and solutions, HP is acutely aware of and concerned by the significant cybersecurity threats and challenges facing governments, companies and individuals today.

H.R. 624, The Cyber Intelligence Sharing and Protection Act of 2013, is an important step to enable critical intelligence sharing on cyber threats between the public and private sectors. The more actionable and real-time information available to both industry and government, the better chance we have to successfully combat cyber adversaries in a meaningful way. HP supports these positive efforts to enhance our country's defenses against the many and evolving cyber threats, while still respecting the privacy rights of all citizens.

We appreciate your bi-partisan leadership in crafting this critical piece of legislation and look forward to continuing to work with you on this important policy over the coming months.

Yours sincerely,



# OracleLetter.pdf

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90 Oracle Parkway  
Redwood Shores  
California 94051  
place 650.505.7100  
fax 650.505.7200  
oracle.com

Monday, February 18, 2013

The Honorable Mike Rogers  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable C.A. Dutch Ruppersberger  
U.S. House of Representatives  
Washington, D.C. 20515

Dear Chairman Rogers and Ranking Member Ruppersberger,

I am writing to congratulate you for reintroducing the Cyber Intelligence Sharing and Protection Act, and to call on Congress to advance this bill towards enactment.

Your bill would remove key legal obstacles to effective bi-directional cybersecurity information sharing between the government and industry. In particular, Oracle has long called for timely sharing by federal agencies with the private sector of actionable information about the most advanced cyber threats, which your bill promotes.

Additionally, it would address key liability concerns that are known to inhibit information sharing by companies in certain circumstances. We also appreciate that it preserves the voluntary nature of information sharing, as you have recognized that any rigid mandate would undermine the trust that is the foundation of successful public-private cybersecurity collaboration.

Finally, we commend you for your commitment to ensuring that cybersecurity information sharing legislation effectively safeguards privacy, as privacy is an important concern of ours. We look forward to continuing to work with you and other interested parties to ensure the bill includes strong privacy protections.

Thank you for leadership on this and other important issues. My colleagues and I look forward to continuing to work with you.



February 12, 2013

The Honorable Mike Rogers  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable C.A. Dutch Ruppersberger  
U.S. House of Representatives  
Washington, D.C. 20515

Dear Representatives Rogers and Ruppersberger:

On behalf of Intel Corporation, I am writing to support the reintroduction of the "Cyber Intelligence Sharing and Protection Act of 2013." We applaud you for adopting a voluntary and non-regulatory approach to improving cybersecurity that incentivizes industry participation by providing much-needed legal certainty and liability protections to businesses engaged in responsible information sharing practices, and leverages existing public-private partnerships rather than creating new bureaucracies.

Intel recognizes that we cannot further delay in collectively addressing the evolving cybersecurity threats facing us all. Security is core to our business, and we have been at the forefront of efforts to improve cybersecurity over the last decade, investing billions of dollars to develop software, hardware, services and integrated solutions designed to advance cybersecurity across the compute continuum. So we understand that governments, businesses and citizens are facing a cybersecurity threat landscape that has changed fundamentally over this same period, and that countering these increasingly sophisticated threats to networks, intellectual property, and privacy requires the cooperative efforts of government, industry and NGO stakeholders working together to improve cybersecurity in a way that promotes innovation and protects citizens' privacy and civil liberties.

The "Cyber Intelligence Sharing and Protection Act of 2013" makes critical progress toward achieving these goals. The bill will help get timely, reliable and actionable threat information into the hands of those private entities in the best position to do something about those threats, allowing them to better protect themselves and their customers, and to maximize the effectiveness of innovative security technologies that can make use of such information in real time. The bill was also amended a number of times prior to final passage to address concerns raised by the privacy and civil liberties community, including amendments significantly narrowing the scope of the cybersecurity threat information that can be shared, and adding important data minimization, retention and notification provisions. While these improvements are substantial, we understand more work needs to be done, and we urge you to continue the dialogue with privacy and civil liberties advocates to fully resolve any remaining valid concerns.

Intel has long advocated that building trust in the global digital infrastructure requires not only



April 3<sup>rd</sup>, 2013

The Honorable Mike Rogers  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable C.A.Dutch Ruppersberger  
U.S. House of Representatives  
Washington, D.C. 20515



Dear Representatives Rogers and Ruppersberger:

On behalf of McAfee, I am writing to support the reintroduction of the “Cyber Intelligence Sharing and Protection Act of 2013” (CISPA). McAfee commends you for the leadership you have shown on cyber security, as you have educated your colleagues on the nature of the cyber threat and once again crafted a thoughtful piece of legislation.

CISPA gives the federal government new authority to share classified cyber threat information with approved companies so they can better protect themselves and their customers from cyber-attacks. The bill also empowers participating businesses to share cyber threat information with others in the private sector and enables the private sector to voluntarily share information with the government.

Leading information technology companies, security providers and their customers are uniquely positioned to act as early warning systems that can identify and help address cyber security attacks on a real time basis, including APTs, botnets and other



April 11, 2013

The Honorable Mike Rogers  
Chairman  
Permanent Select Committee on Intelligence  
U.S. House of Representatives  
Washington, DC 20515

The Honorable C.A. Ruppersberger  
Ranking Member  
Permanent Select Committee on Intelligence  
U.S. House of Representatives  
Washington, DC 20515

Dear Chairman Rogers and Ranking Member Ruppersberger:

Symantec supports your and the Committee's work on the *Cyber Intelligence Sharing and Protection Act of 2013*. This bipartisan legislation recognizes the shortfalls of the current information sharing environment and is an important step toward improved bi-directional, real time information sharing to mitigate cyber threats. The framework provided in your legislation will encourage the government to share vital threat information, more rapidly address threats, and aid private industry in protecting our nation's critical cyber infrastructure. It also provides the right incentives for industry to voluntarily share cyber attack indicators with government.

We are pleased that the Committee strengthened the privacy protections in the bill, and we encourage you to continue working with the privacy and civil liberties community on data minimization and other issues as the bill moves forward. In addition, we believe that a civilian agency should serve as the primary interface with the private sector for voluntary information sharing programs.

Again, thank you for your commitment on this very important issue. Symantec looks forward to working with you as this legislation moves through the legislative process.

Sincerely,

A handwritten signature in black ink that appears to read "Cheri F. McGuire".

Cheri F. McGuire



Gail MacKinnon  
EVP, Chief Government Relations Officer

February 13, 2013

The Honorable Mike Rogers  
Chairman  
House Permanent Select Committee  
on Intelligence  
U.S. House of Representatives  
Washington, DC 20515

The Honorable C.A. Dutch Ruppersberger  
Ranking Member  
House Permanent Select Committee  
on Intelligence  
U.S. House of Representatives  
Washington, DC 20515

Dear Chairman Rogers and Ranking Member Ruppersberger:

With more than 15 million customers, Time Warner Cable is one of the largest providers of broadband, video and voice services in the U.S. Protecting our customers and our networks from cybersecurity threats is a top priority. Time Warner Cable supports the "Cyber Intelligence Sharing and Protection Act" (H.R. 624), which includes important measures to protect our Nation from the growing and evolving threat of cyber attacks.

Combating cybersecurity threats must be a shared responsibility borne in partnership by the public and private sectors. H.R. 624 is a sensible approach that eliminates barriers to information sharing and establishes appropriate protections from liability without creating unnecessary new regulatory burdens that will only hinder these important efforts.

We look forward to working with you and other House Members on this important legislation.

Sincerely,  
A handwritten signature in black ink, appearing to read "Gail".  
Gail MacKinnon



**MOTOROLA SOLUTIONS**

---

Motorola Solutions, Inc.  
1455 Pennsylvania Avenue, NW  
Suite 900  
Washington, DC 20004

March 20, 2013

The Honorable Mike Rogers  
Chairman  
Permanent House Intelligence Committee  
United States House of Representatives  
Washington, DC 20515

The Honorable C.A. Dutch Ruppersberger  
Ranking Member  
Permanent Select Intelligence Committee  
United States House of Representatives  
Washington, DC 20515

Dear Chairman Rogers and Ranking Member Ruppersberger:

We are writing in support of H.R. 624, The Cyber Intelligence Sharing and Protection Act of 2013 and commend you both for your efforts on this critically important issue.

No one entity can ensure cybersecurity alone. Cybersecurity has many moving parts, from the technology itself to legal questions of properly identifying and prosecuting perpetrators in a borderless Internet environment. Only by working together will we address this continuing threat.

Motorola Solutions advocates for a continued public-private partnership in addressing issues of cybersecurity; supports the information sharing efforts that your legislation promotes; as well as maintaining a balanced approach to performance requirements that deal with the daily evolving challenges the nation faces.

# CISPA:

Airlines for America

American Bankers Association

American Chemistry Council

American Fuel & Petrochemical Manufacturers

American Gas Association

American Public Power Association

ASIS International

Association of American Railroads

AT&T

Boeing

BSA

Business Roundtable

# CISPA:

Canadian Electricity Association  
Century Link  
Chamber of Commerce  
Ciena  
The Clearing House  
Comcast  
Comptel  
Consumers Bankers Association  
Consumers Energy  
CSC

# CISPA:

CTIA-The Wireless Association

Edison Electric Institute

Electric Power Supply Association

Electricity Consumers Resource Council

Electronic Funds Transfer Association

Electric Power Supply Association

EMC

Exelon Corporation

Financial Joint Trades

Financial Services Information Sharing and Analysis  
Center (FSISAC)

# CISPA:

GridWise Alliance

HP

IBM

Information Technology Industry Council

Institute Transmission Access Policy Study Group

Intel

Internet Security Alliance

Joint Broadband Providers

Juniper Networks

Large Public Power Council

# CISPA:

McAfee  
Motorola Solutions

NACHA - The Electronic Payments Association

National Association of Manufacturers

National Association of Regulatory Utility Commissioners

National Business Coalition on E-Commerce & Privacy

National Cable & Telecommunications Association

National Rural Electric Cooperative Association

Nuclear Energy Institute

# CISPA:

ORACLE  
Pepco

Securities Industry and Financial Markets Association  
(SIFMA)

Software & Information Industry Association

Symantec

TechAmerica

TechNet

# CISPA:

Telecommunications Industry Association (TIA)

Time Warner Cable

Transmission Access Policy Study Group  
USTelecom, the Broadband Association

Verizon

Visual Data Software  
XOCommunication

# CISPA:

Telecommunications Industry Association (TIA)

Time Warner Cable

Transmission Access Policy Study Group  
USTelecom, the Broadband Association

Verizon

Visual Data Software  
XOCommunication

*@samadeu*

**HÁ UMA MICROECONOMIA DA INTRUSÃO,  
INTERCEPTAÇÃO E RASTAREAMENTO**

**HÁ UMA BIOPOLÍTICA DA MODULAÇÃO**

**TECNOLOGIAS CIBERNÉTICAS SÃO  
TECNOLOGIAS DE CONTROLE**

@samadeu

## **TECNOLOGIAS DE CONTROLE SÃO AMBIVALENTES**

**... ESTA É A BASE DA HIPERTROFIA  
E DO HACKING...**

@samadeu

## O QUE PODE SER FEITO?

- USAR CRIPTOGRAFIA NO DIA-A-DIA;
- DIFICULTAR A CAPTAÇÃO DE SUAS INFORMAÇÕES;
- ATRAPALHAR, CONFUNDIR E BLOQUEAR A FORMAÇÃO DE SEU PERFIL, DO SEU PADRÃO DE CONSUMO...

*@samadeu*

## O QUE PODE SER FEITO?

- AJUDAR A DISSEMINAR SOFTWAREES LIVRES;
- UTILIZAR FORMATOS ABERTOS;
- EXIJA QUAIS INFORMAÇÕES QUE OS GOVERNOS E CORPORAÇÕES TÊM SOBRE VOCÊ.

*@samadeu*

## O QUE PODE SER FEITO?

- DISSEMINA A IDEIA DE GOVERNOS ABERTOS, COM DADOS DISPONÍVEIS E ACESSÍVEIS PARA MÁQUINAS;
- DEFENDA A NEUTRALIDADE DA REDE;

*@samadeu*

## O QUE PODE SER FEITO?

- APÓIE AS REDES SOCIAIS LIVRES, ABERTAS E FEDERADAS;
- DENUNCIE A LEI ANTITERROR.

está no Facebook.

Para se conectar com Terrorismo De Estado, cadastre-se no Facebook hoje mesmo.

Cadastre-se

Entrar



## Terrorismo De Estado

2.182 curtidas · 125 falando sobre isso

Comunidade

TERRORISTAS SÃO O ESTADO E AS GRANDES CORPORAÇÕES! Denuncie, mobilize contra o projeto de Lei anti-terrorismo que quer dar penas de 30 anos p/ ativistas

SEM PRIVACIDADE  
NÃO EXISTE  
DEMOCRACIA  
...

2.182

Sobre

Fotos

Curtidas

Destaques ▾



Terrorismo De Estado compartilhou um link.

9 de abril

Lei antiterrorismo "é quase uma repetição da época da ditadura civil-militar", diz presidente do DHH

<http://www.brasildefato.com.br/node/27484>

Publicações recentes de outros usuários sobre Terrorismo De Estado Ver todos



Ph Lima

-----LANÇAMENTO----- RAP NÃO VAI TER COPA (...)

9 de março às 19:51



Reginaldo Nasser

Escrevi algo que tem relação com o conteúdo dessa pagi...

4 · 20 de fevereiro às 10:23



Antonino Negry

Esnalhe essa ideia! Convide seus amigos para curtir a Re...

*Cryptorave 2014 São Paulo*

OBRIGADO  
SERGIO AMADEU DA SILVEIRA  
@samadeu  
ACTANTES /  
UFABC