

A stylized map of the Americas, including North and South America, is rendered in dark blue. The map is overlaid with a network of white lines connecting various points, and the background is filled with a repeating pattern of light blue binary code (0s and 1s).

October
22nd - 24th
2014

Regional Workshop on
**Cyber Security
Policies**

Washington, D.C.

The Inter-American Development Bank (IDB) is a partner at the service of the countries and citizens of Latin America and the Caribbean in the promotion of better governance, by **delivering:** experience, knowledge, access to a wide network of experts, financial capacity as the principal multilateral institution in the region, expertise across sectors, facilitation of South-South cooperation, rigorous project monitoring and evaluation mechanisms, as well as national and subnational experience in public management.

The Organization of American States (OAS) is the main political forum of the Region that promotes and supports Democracy, Human Rights, Multi-dimensional Security and Integral Development in the Americas. The OAS seeks to prevent conflicts and to bring political stability, social inclusion and prosperity to the region through dialogue and collective action such as cooperation, the implementation of follow-up mechanisms of the Member States engagements and the enforcement of Inter-American Law and International Law.

This activity is being organized with the financial support of the Government of Canada.

PRESENTATION

INSTITUTIONAL CAPACITY OF THE STATE DIVISION (ICS) INSTITUTIONS FOR DEVELOPMENT DEPARTMENT (IFD) INTER-AMERICAN DEVELOPMENT BANK (IDB)

The report “*Latin American and Caribbean Cyber Security Trends*” (LAC), published in June 2014, indicates that, despite the progress made in the fight against cybercrime, an analysis of the situation in the region in 2013 leaves a clear message about the need for all involved to increase their efforts regarding legislation and policies reform, developing technical skills, increasing awareness, sharing information and cooperating with other stakeholders. The reality is that according to the “*Internet Security Threat Report 2014*”, many of these messages apply to most of the nations around the world.

In light of this global movement to raise awareness about the importance of proactive cyber defense and according to its commitment to safeguard the interests of the LAC region and support governments to better serve their citizens, the Department of Institutions for Development (IFD) through the Division of Institutional Capacity of State (ICS) has launched a Regional Technical Cooperation with the ultimate aim to assist beneficiary countries in designing national cybersecurity strategies in accordance with the most recognized international standards thereby strengthening public safety.

To achieve this goal, the Bank will undertake various activities including: knowledge generation, technical assistance, training and the exchange of experiences. This will allow its member countries to better understand the challenges and threats emanating from the use of new technologies and leverage the other countries’ knowledge to successfully confront those threats. In the knowledge-based society, socio-economic progress of the region and safety of its citizens are built on a secure cyber environment.

INTER-AMERICAN COMMITTEE AGAINST TERRORISM (CICTE) ORGANIZATION OF AMERICAN STATES (OAS)

In 2004, the General Assembly of the OAS unanimously passed the Comprehensive Inter-American Cybersecurity Strategy. Since then, cyber threats have grown unabated and continue to adapt to governments’ attempts to confront them. This, in turn, has necessitated that the OAS react to and anticipate new threats to Member States. CICTE programming is delivered according to the needs and preferred approaches of OAS Member States which vary based on political, economic, and social realities.

Early efforts focused on creating and engendering a culture of cyber security among OAS Member State officials. Simultaneously, the OAS embarked on a program of developing national Computer Security Incident Response Teams (CSIRTs) in the Americas. Since 2006, the number of National CSIRTs in the Americas has increased from 5 to 18. While the Program recognizes there are many factors and actors involved in creating a CSIRT and doesn’t take sole credit for establishing teams, CICTE has worked with all countries in the Americas on establishing or improving their incident response capabilities. In addition to working on technical capacities, the OAS has engaged Member States on developing sustainable and pragmatic cyber security strategies and policies, helping Colombia, Panama, and Trinidad and Tobago adopt such policies.

The original focuses of CICTE’s Cyber Security Program have informed the development of several principal lines of action including delivering assistance focused on: technical incident response; national cyber security strategy and CSIRT development; cyber security crisis management exercises; best-practice workshops; courses and workshops on cyber security and critical infrastructure protection; public awareness; cyber diplomacy; and outreach and partnership with the private sector and civil society.

TABLE OF CONTENTS

I.	Cyber Security Fact Sheet	2
II.	Agenda	3
III.	Expert Biographies	7
IV.	Background Documents	17
V.	List of Participants	19

CYBER SECURITY FACT SHEET

CONTEXT - 21st CENTURY

- ✦ Today there are almost **3 billion internet users** around the world
- ✦ More than **200 million emails** are sent every minute
- ✦ **517 websites** are created every minute
- ✦ The value of global **e-commerce** will reach **US\$1.5 trillion** in 2014
- ✦ **Latin America and the Caribbean boast 250 million internet users**; the level of annual growth in internet users in the region in 2013 was 12%, making it the fastest in any region in the world
- ✦ People in **Latin America** spend more time on **social networks** than people from any other region – **8.67 hours per month**
- ✦ By the end of **2015** it is estimated there will be **20 billion devices connected to the internet** and more than 50 billion by 2020
- ✦ **Critical infrastructure** – including systems that manage access to water, generate and distribute energy, administer transportation and facilitate communication – **depend on secure internet and ICT systems** to function



THE THREAT

- ✦ More than **1,400 financial institutions** from 88 countries were **victims of cyber-attacks** in 2013
- ✦ In 2013 there were **253 large-scale cyber security breaches** in which the personal information of **more than 600 million people was compromised** – an increase of 62% from the previous year
- ✦ Every day there are **568,000 attacks to websites** and more than 29 billion spam emails sent across the internet
- ✦ **77% of websites** currently operate with a known vulnerability; **one in eight** of these is a critical vulnerability
- ✦ **16% of phishing** or spear phishing attacks are **directed to officials in the public sector**
- ✦ There are at least **20 international hacker groups operating with capacities and abilities similar to those available to governments**



THE COST

- ✦ The cost of global **cybercrime** is estimated to be at between **US\$375 and US\$575 billion annually**
- ✦ In the **United States 200,000 jobs are lost annually** due to cybercrime related causes
- ✦ Victims of hacking campaigns and cyber breaches in 2013 included Facebook, WhatsApp, Twitter, Apple, The New York Times, The Washington Post, Target, JP Morgan Chase, Citigroup, Barclays, and innumerable government websites from developed and developing countries



AGENDA

October 22-24, 2014

IDB Headquarters

The study, *“Risk and Responsibility in a Hyperconnected World: Paths to Global Cyber Resilience”* published in 2012 by the World Economic Forum, indicates that the value of cyber crime worldwide could reach US\$1 trillion per year. As Latin America and the Caribbean became the region with the fastest growth in Internet users worldwide (12% in 2013), likewise grew its cyberspace vulnerabilities and attacks to it.

In 2012, the governments of the Americas signed the declaration on “Strengthening Cyber Security in the Americas,” in which they expressed concern about the growing threats to cyber security and reiterated their support of the Comprehensive Inter-American Cyber Security Strategy, previously adopted in 2004.

Given the importance of cyber security for the socio-economic progress of the people of Latin America and the Caribbean, the IDB and the Organization of American States (OAS) are joining efforts to support governments in the region in the design and implementation of strategies to successfully address the cyber security challenges.

This workshop will bring together officials at the management level responsible for the design and implementation of national cyber security policies in the region, along with experts from academia and the private sector. It aims to: 1) promote the exchange of experiences and technical knowledge of Member States on cyber policy issues; 2) define the elements of a cyber security policy agenda for the region; and 3) prepare for the 2015 meeting of cyber security authorities.

Note: All panels will include a Q&A session after panelists have presented.

Wednesday, October 22nd

08:00-09:15 | REGISTRATION

09:15-09:35 | OPENING REMARKS

👤 **Robert Gordon**, Special Advisor for Cyber Security, Public Safety Canada

👤 **Albert R. Ramdin**, Assistant Secretary General, Organization of American States (OAS)

👤 **Luis Alberto Moreno**, President, Inter-American Development Bank (IDB)

09:35-11:00 | CYBER SECURITY: WHY IS IT IMPORTANT AND HOW ARE WE DOING IN LATIN AMERICA AND THE CARIBBEAN?

👤 **James Lewis**, Director and Senior Fellow, Strategic Technologies Program, Center for Strategic International Studies

👤 **Adam Blackwell**, Secretary of Multidimensional Security, OAS

👤 **Irvin Halman**, General Administrator, National Authority of Governmental Innovation, Panama

Moderator: **Carlos Santiso**, Chief, Institutional Capacity of the State Division (IFD/ICS), IDB

11:00-11:15 | BREAK

11:15-12:30 | KEY ELEMENTS OF A SOLID CYBER SECURITY POLICY

👤 **Thomas Dukes**, Deputy Coordinator for Cyber Issues, U.S. Department of State

👤 **Tony Clemson**, Head of Cyber Security Capacity Building, Foreign and Commonwealth Office of the United Kingdom

👤 **Cheri F. McGuire**, Vice President of Global Government Affairs & Cyber Security Policy, Symantec

Moderator: **Miguel Porrúa**, E-Government Lead Specialist (IFD/ICS), IDB

12:30-14:00 | LUNCH (ANDRES BELLO 1-2)

14:00-15:30 | RELEVANT ACTORS IN CYBERSECURITY: WHO ARE THEY AND HOW TO INVOLVE THEM?

👤 **Uri Rosenthal**, Special Envoy of the Netherlands for the International Cyberspace Conference

👤 **Robert Gordon**, Special Advisor for Cyber Security, Public Safety Canada

👤 **Dave Piscitello**, Vice President, Security and ICT Coordination, ICANN

Moderator: **Kerry-Ann Barrett**, Cyber Security Policy Specialist, OAS/CICTE

15:30-15:45 | BREAK

15:30-17:15 | MANAGING EMERGENCIES: THE IMPORTANCE OF A NATIONAL COMPUTER SECURITY INCIDENT RESPONSE TEAM

👤 **Jennifer Byrne**, Worldwide Chief Security Officer, Microsoft

👤 **Toomas Vaks**, General Director (a.i.), Estonian Information System Authority

👤 **Greg Shannon**, CERT Chief Scientist, Software Engineering Institute at Carnegie Mellon University

Moderator: **Antonio García Zaballos**, Coordinator of the Broadband Initiative (IFD/CMF), IDB

17:15-17:30 | ADJOURNMENT

17:30-19:30 | WELCOME RECEPTION (TERRACE LEVEL IDB - 7TH FLOOR)

Thursday, October 23rd

09:00-10:30 | LESSONS LEARNED IN THE DESIGN OF NATIONAL CYBER SECURITY STRATEGIES

👤 **Alejandro López**, Cyber Security Technology Manager, National Institute of Communication Technologies (INTECO) of Spain

👤 **Inkyung Jeun**, Internet Incidents Response Planning Team Leader, Korean Internet and Security Agency (KISA)

👤 **Melissa Hathaway, President**, Hathaway Global Strategies

Moderator: **Patryk Pawlak**, Senior Analyst, European Union Institute for Security Studies (EUISS)

10:30-10:45 | BREAK

10:45-12:15 | MULTIPLE APPROACHES TO A CYBER SECURITY STRATEGY: ADAPTING WITHOUT COPYING

👤 **Iddo Moed**, Cyber Security Coordinator, Ministry of Foreign Affairs of Israel

👤 **Joseph Hubback**, Associate Principal for Cybersecurity, McKinsey

👤 **Julian Robinson**, Minister of State, Ministry of Science, Technology, Energy and Mining of Jamaica

Moderator: **Eneken Tikk**, Senior Fellow for Cyber Security, International Institute for Strategic Studies (IISS)

12:15-13:45 | LUNCH (ANDRES BELLO 1-2)

13:45-17:00 | WORKING GROUPS:

Participants will be divided into working groups, each of them moderated by an expert. These groups will discuss and analyze, among others, the topics below, and have two main objectives: i) to contribute to defining the elements of a the study “The State of Cyber Security in Latin America and the Caribbean” that will be undertaken under the framework of the IDB security initiative with the support of the OAS; ii) to identify the most relevant issues that affect cyber security in the region, the status of these issues, and the level of support that is needed, in order to guide the agenda for a meeting of cyber security authorities to be held in 2015.

- ✓ Analyzing the cyber security situation in the region
- ✓ Incident response capacities in developing countries
- ✓ Use of legal instruments
- ✓ Stakeholder involvement
- ✓ International coordination
- ✓ Information exchange
- ✓ Preparation of a Document on the Conclusions of the Working Groups

Moderators: **Rodolfo Orjales**, Chair of Cybercrime Working Group, REMJA. **Gael Hernandez**, Research and Outreach Specialist, Packet Clearing House. **Belisario Contreras**, Cyber Security Program Manager, OAS/CICTE

17:00-17:15 | CLOSING REMARKS

👤 **Pablo Martínez**, Senior Program Officer/ Programs Coordinator of Inter-American Committee against Terrorism (CICTE), OAS

👤 **Ana María Rodríguez**, Manager, Institutions for Development (IFD), IDB

18:00-20:00 | RECEPTION

Friday, October 24th

OAS Headquarters

(Hall of the Americas – 17th and Constitution Av.)

10:00-11:30 | DISCUSSION OF UPCOMING STUDY “THE STATE OF CYBER SECURITY IN LATIN AMERICA AND THE CARIBBEAN”

11:30-11:45 | BREAK

11:45-12:30 | DISCUSSION OF CURRENT OAS CYBER SECURITY INITIATIVES

12:30-14:00 | LUNCH

SEGURINFO Washington

14:00-14:15 | WELCOME TO SEGURINFO WASHINGTON

👤 **Pedro Maidana**, President, USUARIA

👤 **Neil Klopfenstein**, Executive Secretary, Inter-American Committee against Terrorism (CICTE), OAS

14:15-15:00 | THE ROLE OF NON-GOVERNMENTAL ORGANIZATIONS IMPROVING CYBER SECURITY

👤 **Peter Cassidy**, Secretary General, Anti-Phishing Working Group (APWG)

👤 **Daniel Stauffacher**, President, ICT for Peace Foundation

15:00-16:15 | POLICY, LEGAL AND TECHNICAL CONSIDERATIONS FOR CYBER SECURITY AND CRITICAL INFRASTRUCTURE PROTECTION

👤 **Manuel Sicilia**, Chief of Section, National Centre for Critical Infrastructure Protection (CNPIC) of Spain

👤 **Eneken Tikk**, Senior Fellow for Cyber Security, International Institute for Strategic Studies (IISS)

👤 **Aart Jochem**, Manager of Incident Response, Dutch National CERT, Ministry of Security and Justice

16:15-17:00 | 2015: INDUSTRY PERSPECTIVE ON CYBER THREATS AND TENDENCIES

👤 **Bill Wright**, Director of Cybersecurity Partnerships, Symantec

👤 **Christopher Adelman**, Chief Security Ambassador at Eleven Paths, Telefonica

👤 **Wade Baker**, Director and CTO of Global Security Solutions, Verizon

17:00-17:30 | CLOSING REMARKS

👤 **Adam Blackwell**, Secretary of Multidimensional Security, Organization of American States

17:30-19:30 | RECEPTION (MUSEUM OF THE AMERICAS)

EXPERT BIOGRAPHIES



ADAM BLACKWELL

Secretary for Multidimensional Security
Organization of American States

Canadian Ambassador Adam Blackwell is a former career diplomat. He first joined the Canadian Foreign Service in 1980, serving various assignments in Central and Eastern Africa, as well as acting as the Consul General in Mexico and New York City and the Ambassador to the Dominican Republic from 2002 to 2005. In 2006, Ambassador Blackwell joined the Organization of American States in Washington D.C, and became the Assistant Secretary in the Secretariat for Finance and Administration. Soon after he moved on to become acting Secretary in the Secretariat for External Relations. In 2010, he was appointed Secretary for the Secretariat for Multidimensional Security.



ALEJANDRO LÓPEZ PARRA

Cyber Security Technology Manager
National Institute of Communication Technologies (INTECO) - Spain

Alejandro López has worked for nearly 10 years in information security in the public and private sectors. He has an intimate knowledge of CERT organizations thanks to his time at public and private CERTs in Spain. In the last seven years, he has been associated with management roles devoted to security information management, security technologies and security incident handling. Mr. Lopez received a degree in Information System Engineering from the University of Granada. He also has a Masters in Information Security from S21sec Institute and certifications in security technologies and security incident handling.



ANA MARÍA RODRÍGUEZ-ORTIZ

Manager, Institutions for Development
Inter-American Development Bank

Ana Maria Rodríguez-Ortiz has been the Manager of the Institutional Capacity and Finance Sector since February 2011. She previously served as Manager of the Andean Country Group. Since joining the Bank in 1991, Mrs. Rodriguez-Ortiz has occupied several positions, including Senior Advisor to the Office of the Presidency from June 2008 to December 2010. She was the IDB's Country Representative in Peru from August 2007 through June 2008. She has also been Chief Advisor to the Executive Vice Presidency; Chief of the Finance and Basic Infrastructure Division of the Regional Operations Department; Chief of the Country Division for Colombia, Ecuador, Peru and Venezuela; and Technical Advisor to the Executive Vice Presidency. Prior to working at the IDB, she served as Economic Advisor to the President of the National Banking Association in Colombia, worked at Banco de la Republica (Colombian Central Bank) and at the Banco Central Hipotecario of Colombia. Mrs. Rodriguez-Ortiz, a Colombian citizen, holds a Master of Arts in Development Economics from Williams College in Massachusetts and a degree in Economics from Universidad de Los Andes in Bogota.

ANTONIO GARCÍA ZABALLOS

Lead Specialist on Telecommunications, Competitiveness and Innovation Division
Inter-American Development Bank

Antonio García Zaballos is Lead Specialist on telecommunications in the Competitiveness and Innovation Division of the Inter-American Development Bank. He has more than 14 years of experience in the telecom sector where he has been working in various positions in different companies. At Deloitte Spain he led the practice of regulation and strategy, and previously he was the Head of the Cabinet for Economic Studies of Regulation in Telefónica of Spain, and also was Deputy Director of Economic Analysis and Markets at the Spanish Telecom Regulator (CMT). He holds a PhD in Economics from the University Carlos III of Madrid and is an associated professor of applied finance to Telecommunications at the Instituto de Empresa Business School. He has authored several publications on economic and regulatory aspects for the sector of telecommunications.



CARLOS SANTISO

Chief, Institutional Capacity of the State Division
Inter-American Development Bank

Prior to joining the IDB, he was the Sector Manager of the Governance Division at the African Development Bank, based in Tunis since 2007. He previously served as a governance and public finance advisor to the United Kingdom Department for International Development (2002-2007), a senior program officer at the International Institute for Democracy and Electoral Assistance (1996-2000), as well as an adviser at the French Prime Minister's Office (1995-96). He has worked in over a dozen countries in Africa and Latin America for as many organizations in different capacities, including as a consultant. A graduate from the Institut d'Etudes Politiques of Paris, Columbia University and Johns Hopkins University, he has written extensively on democracy, governance and aid. His most recent book, *The Political Economy of Government Auditing*, was published in 2009 by Routledge.



CHERI F. MCGUIRE

Vice President, Global Government Affairs & Cybersecurity Policy
Symantec Corporation

Cheri McGuire serves as Vice President for Global Government Affairs and Cybersecurity Policy at Symantec. With more than twenty years of government and industry experience, Ms. McGuire is responsible for Symantec's global public policy agenda and government engagement strategy that includes cybersecurity, data integrity, critical infrastructure protection (CIP), and privacy. She leads a team of professionals spanning the U.S., Canada, Europe, Asia, and Latin America, and represents the company in key policy organizations. She works extensively with industry and governments, serving from 2010-2012 as Chair of the US IT Sector Coordinating Council. She also sits on the Boards of the IT Industry Council (ITI), the US IT Office in China (USITO), and the National Cyber Security Alliance (NCSA). Ms. McGuire is a frequent presenter at international cyber conferences, and testified twice before the US Congress in 2013. Her past positions include: Director for Critical Infrastructure and Cybersecurity in Microsoft's Trustworthy Computing Group; Acting Director and Deputy Director of the Department of Homeland Security's National Cyber Security Division and US-CERT; program manager at Booz Allen Hamilton; and Congressional staffer.





DAVE PISCITELLO

Vice President, Security and ICT Coordination

ICANN

Dave Piscitello has been involved in networking or Internet technology for over 40 years. Dave serves as Vice President, Security and ICT Coordination at ICANN, where he collaborates with the information security, DNS, and law enforcement communities on a diverse range of security issues related to the Domain Name System and domain name registration processes, including phishing, pharming, DDoS attacks, domain hijacking and other registration abuses.



ENEKEN TIKK-RINGAS

Senior Cyber Security Fellow

International Institute for Strategic Studies

Before joining IISS, Eneken worked as legal adviser and the head of the legal and policy team at the NATO Cooperative Cyber Defence Centre of Excellence in Tallinn, Estonia. She was one of the lead experts to analyze and write about cyber attacks against Estonia in 2007 and has since worked with many governments and international organizations on strategic cyber security matters. Prior to joining the NATO Centre she worked as attorney in the field of information technology, focusing on EU regulations and standards for security of private and national information systems. She has consulted Estonian public authorities on legal and policy issues related to deploying and managing national information systems and service. Eneken serves as international research associate at the Georgetown University Center for Law, Technology and Security and has long teaching experience at Tallinn Technical University and Swedish National Defence College. Eneken speaks Estonian, English, German and Russian. She holds a PhD in law from the University of Tartu in Estonia. She has written numerous articles on strategic cyber security issues, is a frequent speaker at international cyber security conferences and serves as expert in the UN Disarmament and International Security Committee's Group of Governmental Experts.



GAEL HERNÁNDEZ

Research and Outreach Specialist

Packet Clearing House

Gaël Hernández is the primary liaison contact of Packet Clearing House with Internet Service Providers, regulators and Internet exchange point operators in Latin America and Europe. He is involved in policy discussions with a diverse range of stakeholders, teaches policy workshops on Internet infrastructure and represents PCH at conferences. He also leads the research team working on the IXP directory and prepares papers and briefs on economic and policy issues regarding network interconnection and Internet development. Gaël joined the PCH team in 2012. Prior to this, he worked for several technology non-profit organisations in Europe and Africa, and as software engineer in the private sector in Spain. Gaël speaks fluent English, Spanish and French and holds an MSc in Computer Science and a Master in International Development.

GREG SHANNON

Chief Scientist, CERT Division, Software Engineering Institute (SEI)
Carnegie Mellon University

Greg Shannon is the chief scientist for the CERT® Program at Carnegie Mellon University's Software Engineering Institute, a federally funded research and development center. In this role, he works with CERT management and staff to establish and enhance the program's research visibility, initiatives, strategies, and policies. Outside of CERT, he works to influence national research agendas and promote the data-driven science of cyber security. He received a BS in Computer Science from Iowa State University with minors in Mathematics, Economics, and Statistics. He earned both his MS and PhD in Computer Sciences at Purdue University. Prior to joining CERT, Shannon was the chief scientist at two startups where he worked on insider threats, the science of cyber security, and statistical anomaly detection. In earlier positions, Mr. Shannon led applied research and development efforts in cyber security and data analysis at Lucent Technologies, Lumeta, Ascend Communications, Los Alamos National Laboratory, Indiana University, and his own startup company.



IDDO MOED

Cyber Security Coordinator
Ministry of Foreign Affairs, Israel

After joining the Israel Ministry of Foreign Affairs in 1992 Iddo Moed was posted in several missions around the world including The Hague, Singapore and Beijing (DCM). Positions in Israel have included responsibilities for Water and Multilateral Affairs at the Middle East Division, Middle Eastern Economic Affairs, and he was the Head of the Training Department. Since June, 2013 Mr. Moed has been the Cyber Security Coordinator in the Strategic Affairs Department. In this role Mr. Moed is responsible for coordination of policies regarding international cooperation in cyber security.



INKYUNG JEUN

Internet Incident Response Planning Team Leader
Korean Internet and Security Agency (KISA)

Inkyung Jeun majored in computer engineering and received doctoral degree at Sung Kyun Kwan University in South Korea. She joined Korea Internet and Security Agency (KISA) in April 2000. She works as a manager of the Internet Incidents Response Team and her main responsibilities include coordinating and collaborating with foreign CSIRTs (Computer Security Incident Response Team) and providing policies and strategies for improving cyber-attack readiness by developing and operating detection and response systems. She has several certifications including the Certified Information System Security Professional (CISSP) and Certified Information System Auditor (CISA) and was awarded an Asia-Pacific Information Security Leadership Achievements in 2014.





IRVIN A. HALMAN

General Administrator

National Authority for Governmental Innovation of Panama

Irvin A. Halman obtained a BS in Chemical Engineering from Worcester Polytechnic Institute and an MBA from the University of Rochester, both in the United States. He began his career in the Photographic Technology Division at Eastman Kodak Co. in New York, and later served in management positions in Industria Nacional de Artefactos, S.A., Leasing Panama, Kodak Panama, Kodak Export, Ltd. and Johnson & Johnson Latin America. Mr. Halman was the President of the Chamber of Commerce, Industries and Agriculture of Panama (2012-13), President of the Panamanian Institute of Corporate Governance (2009-12), and Director of Empresas Aliadas, S.A. He is a member of the Board of the Panamanian National Science, Technology and Innovation Secretariat (SENACYT) and participated in the Board of Trustees of the National Competitiveness Center representing the Chamber of Commerce, Industries and Agriculture of Panama. He is also member of the Institute of Corporate Governance Panama, the University of Panama's Think Tank and the Panamanian Foundation of Ethics and Civics. He actively participates in a number of other non-profit organizations such as Rotary Club Panama and the Global Compact Network.



JAMES LEWIS

Director and Senior Fellow, Strategic Technologies Program

Center for Strategic and International Studies (CSIS)

James Lewis is a senior fellow and director of the Strategic Technologies Program at CSIS, where he writes on technology, security, and the international economy. Before joining CSIS, he worked at the Departments of State and Commerce as a Foreign Service officer and as a member of the Senior Executive Service. His government experience includes work on a range of politico-military and intelligence issues. He was the rapporteur for both the 2010 and 2013 UN Group of Government Experts on Information Security. Mr. Lewis has authored numerous publications since joining CSIS, publishing a series of reports and essays exploring the relationship between technology and national power. He is an internationally recognized expert on technology and strategy whose work includes *Securing Cyberspace for the 44th Presidency* (CSIS, 2008). Lewis led a long-running track II dialogue on cybersecurity with China. His remarks appear frequently in the media, and he has testified numerous times before Congress. His current research examines international security and governance in cyberspace and the effect of the Internet on politics. Lewis received his Ph.D. from the University of Chicago.



JENNIFER BYRNE

Chief Security Officer

Worldwide Public Sector Microsoft

Jennifer Byrne is the Chief Security Officer for the Worldwide Public Sector division at Microsoft where she leads a global community of Chief Security Advisors who consult with government and industry leaders on the most pressing cybersecurity issues. She is responsible for developing and leading the division's cybersecurity strategy in collaboration with Microsoft's Trustworthy Computing Group, Digital Crimes Unit, and product teams for all of the company's major solutions. Ms. Byrne joined Microsoft having spent the last eighteen years

working in various capacities the cybersecurity industry. She began her IT career in security engineering, servicing U.S. federal government clients and has held senior leadership positions in sales, alliances and strategy at Symantec and McAfee. Most recently, Jennifer was the Vice President of Global Sales at Damballa, a cybersecurity firm headquartered in Atlanta, GA providing advanced threat protection solutions for targeted attacks. Jennifer continues to collaborate closely with leaders in the security industry in support of innovation and initiatives promoting a safer Internet.

JOSEPH HUBBACK

Associate Principal for Cyber Security
McKinsey

Joseph is a founding leader of the cyber security practice in McKinsey and has contributed extensively to McKinsey's knowledge development and client service in cyber security. Building on experience serving cyber security clients and his own prior knowledge, Joseph has helped develop McKinsey's unique insights into cyber security management and risk reduction. With a strong background in high-tech and telecom clients and 10 years working in industry, he is able to help clients bridge the gap between technology and business leadership. He has served many clients helping develop cyber-security self-protection and market entry strategies across high-tech financial services and aerospace and defense, including assessment of physical security markets. He created the McKinsey cross-industry benchmark for cyber-risk maturity, working with 20 global leading organizations to help define best-practice in cyber-security and build more cost-efficient strategies for protection, now used in more than 100 organizations globally.



JULIAN J. ROBINSON

Minister of State
Ministry of Science, Technology, Energy and Mining

Julian J. Robinson currently serves as Deputy General Secretary of the People's National Party and has been the Minister of State in Jamaica's Ministry of Science, Technology, Energy and Mining and Member of Parliament for the constituency of St. Andrew South Eastern since 2012. Robinson began his career working for IBM and Scient Corporation where he developed and implemented e-Business strategies. Robinson was recruited by Jamaica's trade and investment promotion agency, JAMPRO, in 2001. It was there that he became instrumental in positioning Jamaica as a major player in the ICT (Information and Communication Technologies) outsourcing industry by attracting international companies to the island to establish offshore operations. As a result, the country's Information and Communication Technologies (ICT) sector became a major attraction for foreign direct investment and generated thousands of jobs. Minister Robinson earned his BSc in Management and Economics from the University of the West Indies, Mona. He also holds an MBA from the University of Illinois at Urbana-Champaign in the





KERRY-ANN BARRETT

Policy Specialist (CICTE)

Organization of American States

Kerry-Ann Barrett has been practicing as an attorney-at-law for over twelve years in both Jamaica and Trinidad and Tobago. Included in her legal professional experience have been appointments within the Ministries of National Security and Trade and Industry, including legal consultant to the CARICOM Secretariat and the ILO Sub-Regional Office for the Caribbean. Mrs. Barrett holds a Post Graduate Diploma in International Arbitration, a Masters in Business Administration (MBA) in International Business, an LLB and Certification in Legal Frameworks for ICTs. More recently, Mrs. Barrett has gained considerable knowledge and experience in the area of electronic commerce, internet governance and cyber security. She has been the legal advisor for the development of the legal framework for the Government of Trinidad and Tobago Single Electronic Window for Electronic Commerce Project known as TTBizLink, a member of the Inter-ministerial Committee for the development of a national cyber-security policy and legislation for Trinidad and more recently has joined the Cyber Security Program at the OAS as their Cyber Security Policy Specialist where she offers technical assistance to member states on the development of their national cyber security strategies.



MELISSA HATHAWAY

President

Hathaway Global Strategies

Melissa Hathaway is President of Hathaway Global Strategies LLC and a Senior Advisor at the Belfer Center at Harvard University's Kennedy School of Government. She served in two Presidential administrations where she spearheaded the Cyberspace Policy Review for President Obama and led the Comprehensive National Cybersecurity Initiative for President George W. Bush. At the conclusion of her government service she received the National Intelligence Reform Medal and the National Intelligence Meritorious Unit Citation Medal in recognition of her achievements. Previously, Ms. Hathaway was a Principal with Booz Allen & Hamilton, Inc., where she led two primary business units: information operations and long range strategy and policy support, supporting key offices within the Department of Defense and the Intelligence Community. Earlier in her career she worked with Evidence Based Research, Inc. and the American Foreign Service Association. Ms. Hathaway has a B.A. degree from The American University in Washington, D.C. She has completed graduate studies in international economics and technology transfer policy, and is a graduate of the US Armed Forces Staff College.



MIGUEL A. PORRÚA

E-Government Lead Specialist, IFD/ICS Unit

Inter-American Development Bank

Miguel A. Porrúa is the e-Government Lead Specialist at the IFD/ICS Unit of the Inter-American Development Bank (IDB). Prior to this position, Miguel was a senior e-Government Specialist at the Organization of American States (OAS) where he managed the Organization's e-Government portfolio. Previously, Miguel was the Director of Government Relations for Latin America at the electronic government company govWorks, based in New York, where he oversaw various electronic government projects in the region. Prior to his arrival in the US, Miguel lived in Montevideo, Uruguay, where he managed projects related to the modernization of the public sector for the Spanish government (Spanish Agency for International Cooperation and Development, AECID) and the United Nations (UNDP). Miguel has written several articles and documents on electronic government and co-edited the book *Latin America Puntogob*.

PABLO MARTÍNEZ

Senior Programs Officer (CICTE)

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Pablo Martínez has been a member of the CICTE Secretariat since its inception in 2002. He began his tenure at CICTE as a seconded official of the Uruguayan Government, and worked primarily with the Legislative Assistance, Airport Security, and Maritime Security programs. Since 2006 he has been the Deputy Secretary and Senior Programs Coordinator. Prior to joining the OAS, Mr. Martínez was a Colonel in the Uruguayan Air Force. There, he held various positions including Head of the Special Air Command Course of the Air Staff and Head of the Coordination and Logistics Office of the Uruguayan Air Force at Wright-Patterson Air Force Base in the United States. He has been a member of the Mont Pelerin Society since 2004.



PATRYK PAWLAK

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Patryk Pawlak is a Senior Analyst at the European Union Institute for Security Studies (EUISS) in Paris where he currently leads the EUISS Cyber Task Force. Before joining the EUISS, Mr. Pawlak worked with numerous research institutions, including the Center for Transatlantic Relations at Johns Hopkins University, the Center for Peace and Security Studies at Georgetown University, and the Centre for European Policy Studies in Brussels. During his career, Patryk was engaged in a number of research projects on data protection, the use of personal information for security purposes and smart borders. His current research interests include cyber capacity building and ethical aspects of security and surveillance technologies. He holds a PhD in Political Science from the European University Institute in Florence, Italy.



ROBERT. W. (BOB) GORDON

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Bob Gordon is the Special Advisor on Cyber Security at Public Safety Canada. In this capacity, Bob provides strategic and operational leadership across the security and intelligence agencies of the Government of Canada. His leadership role includes engaging with international allies and the private sector to build effective and meaningful partnerships on cyber security. Bob joined Public Safety Canada in 2008 and was the architect of Canada's Cyber Security Strategy. Prior to joining Public Safety Canada, Bob held a variety of senior positions in the security, intelligence and law enforcement organizations. Bob's experience has spanned four of Canada's key security organizations - Public Safety Canada, Communications Security Establishment Canada (CSE), Canadian Security Intelligence Service (CSIS) and the Royal Canadian Mounted Police (RCMP). Bob played a significant role in shaping the security policies and programs within and across these entities. Bob's career has seen him live across Canada and in the United States; and has taken him to all parts of the world, where he has successfully formed enduring and mutually beneficial relationships with other governments and industry.





RODOLFO ORJALES

Senior Trial Attorney, Computer Crime and Intellectual Property Section (CCIPS)
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Rodolfo Orjales is a Senior Trial Attorney with Department of Justice in the Computer Crime and Intellectual Property Section. His primary focus is in prosecuting cyber crime, including fraud over the Internet, the distribution of computer viruses, and violations of intellectual property, including Economic Espionage and trade secrets. Currently, he is the Chairperson of the Group of Experts on Cyber-crime at the Organization of American States. He was also the legal attaché at the U.S. Embassy in Argentina where he advised the US Ambassador on all legal matters and supervised extraditions of fugitives, foreign requests for legal assistance, and bi-lateral criminal investigations. He speaks Spanish fluently and has extensive experience providing training to the judiciary, prosecutors, and investigators from Latin America in the areas of cyber crime and intellectual property. From 1983 to 1997, Mr. Orjales was Assistant U.S. Attorney San Francisco. He tried over 65 felony trials involving fraud, child exploitation, narcotics, and intellectual property. He is a graduate of the School of Law at Syracuse University, and he received his Bachelor of Science degree from the University of Santa Clara.



THOMAS DUKES

Deputy Coordinator for Cyber Issues
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Tom Dukes is Deputy Coordinator for Cyber Issues at the U.S. State Department, where he is responsible for cybercrime, cybersecurity, national security and capacity building issues, as well as overall management of personnel, budget and strategic planning for the Secretary's Office of the Coordinator of Cyber Issues (S/CCI). He is also an adjunct lecturer at the University of Virginia School of Law, a U.S. Air Force reserve cyber operations lawyer and Chair of the G-7 Roma-Lyon Group's High-Tech Crime Subgroup. Prior to joining S/CCI in 2011, Tom served as a senior prosecutor in the U.S. Justice Department's Computer Crime and Intellectual Property Section, as a U.S. Air Force reserve military trial judge, as an attorney in the U.S. Department of Homeland Security's Office of the General Counsel and as an active duty U.S. Air Force Judge Advocate. Tom is a graduate of the University of Virginia School of Law, the Air War College and the University of Maine at Farmington.



TONY CLEMSON

Head of Capacity Building, Prosperity and Communications – International Cyber Policy Unit
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Tony Clemson is head of Cyber Security Capacity Building, Prosperity and Communications in the UL Foreign and Commonwealth Office. He previously served in New Zealand and South Korea covering those countries' political and economic relations with the UK. In his pre-diplomatic career he was a Warfare Officer in the Royal Navy serving in the Arabian Gulf, Atlantic and Caribbean.

TOOMAS VAKS

Deputy General Director of Cyber Security

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Toomas Vaks has over 20 years of experience in the field of law enforcement, regulatory compliance, risk management and fraud investigations both from private and governmental sector. During his career, he has been involved in a number of high-level international cybercrime investigations and cyber incident managements. Before returning to public service, he was working for Swedbank Group, where he was responsible for risk management in Swedbank Group Cards, the fourth largest credit card acquirer in Europe. Since 2011, he has performed the duties as the Deputy General Director of Cyber Security Branch in Estonian Information System Authority (EISA), which is the central information technology, e-government services and cyber security agency in Estonia. Mr. Vaks graduated from Estonian State Defense Academy (Estonian Academy of Security Sciences) and from Tallinn University of Technology.



URI ROSENTHAL

Special Envoy of the Netherlands for the International Cyberspace Conference

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Uri Rosenthal is a Dutch politician, academic and consultant and a former Minister of Foreign Affairs (2010-2012) for the Netherlands. In the past decades he has been Professor of Political Science and Public Management at Erasmus University Rotterdam and Leiden University, as well as the Dean Netherlands School of Government and Vice-chairman Netherlands Science Foundation. He was Chairman of the Parliamentary Group VVD (People's Party for Freedom and Democracy) in the Netherlands Senate (2005-2010). As a consultant, for more than 10 years he was President COT Institute for Safety, Security and Crisis Management (since 2008 an Aon Company), where he gave advice on acute crises; post-crisis strategy and organizational development to leaders in the public and private sector. He has worked with a wide variety of sectors such as armed forces, judicial sector, intelligence, financial institutions, high-risk events, energy industry and ICT. He is currently the Chairman of the Dutch Advisory Council for Science, Technology and Innovation Policy and a Special Envoy of the Dutch Government for 2015 Cyberspace Conference in The Hague.



BACKGROUND DOCUMENTS



INTERNET SECURITY THREAT REPORT 2014

Symantec Corporation | April 2014

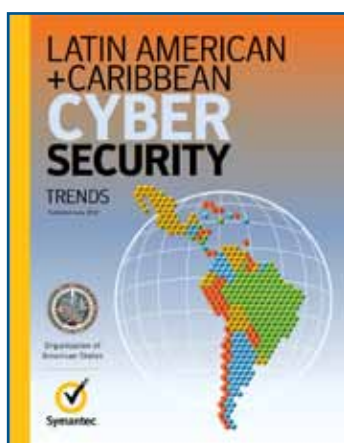
The Internet Security Threat Report provides an overview and analysis of the year in global threat activity. The report is based on data from the Symantec Global Intelligence Network, which Symantec's analysts use to identify, analyze, and provide commentary on emerging trends in the dynamic threat landscape.



RISK AND RESPONSIBILITY IN A HYPERCONNECTED WORLD

World Economic Forum- McKinsey & Company | June 2014

Risk and Responsibility in a Hyperconnected World assesses the action areas necessary, and examines the impact of cyberattacks and response readiness. The report sets these against three alternative scenarios in which economic value from technological innovations is realized or lost depending on models of cyber resilience. It draws on knowledge and opinions derived from a series of interviews, workshops and dialogues with global executives and thought leaders to estimate the potential value to be created through 2020 by technological innovations.



LATIN AMERICAN AND CARIBBEAN CYBERSECURITY TRENDS

OAS-Symantec | June 2014

This report provides an overview of cybersecurity and cybercrime-related developments in Latin America and the Caribbean in 2013. It assesses the major trends in the region in terms of the threats to the cyber domain and those who depend on it, from government institutions to private enterprises to individual users. It also takes stock of the advances made by government authorities to better address the challenges they face in an increasingly connected and ICT-dependent world.



NET LOSSES: ESTIMATING THE GLOBAL COST OF CYBERCRIME- ECONOMIC IMPACT OF CYBERCRIME II

Center for Strategic and International Studies- McAfee| June 2014

This report posits that cybercrime is a growth industry. The returns are great, and the risks are low. It estimates that the likely annual cost to the global economy from cybercrime is more than US\$400 billion. A conservative estimate would be US\$375 billion in losses, while the maximum could be as much as US\$575 billion. Even the smallest of these figures is more than the national income of most countries and governments underestimate how much risk they face from cybercrime and how quickly this risk can grow.

The full documents can be downloaded from the following links.



IDB Link

<http://events.iadb.org/>



OAS Link

http://www.oas.org/cyber/events_en.asp

CYBER SECURITY FACT SHEET

Source :

- ✦ “Online in 60 Seconds [Infographic] - A Year Later - Qmee.” Qmee. N.p., n.d. Web. 15 Oct. 2014.
- ✦ “Internet Live Stats - Internet Usage & Social Media Statistics.” Internet Live Stats - Internet Usage & Social Media Statistics. N.p., n.d. Web. 13 Oct. 2014.
- ✦ Danova, Tony. “The Internet of Everything: 2014” Business Insider. Business Insider, Inc, 30 Sept. 2014. Web. 15 Oct. 2014.
- ✦ Evans, Dave. White Paper: The Internet of Things How the Next Evolution of the Internet. Cisco Internet Business Solutions Group (IBSG), Cisco, Apr. 2011. Web. 15 Oct. 2014.
- ✦ Internet Security Threat Report 2014. Rep. no. Volume 19. Symantec Corporation, Apr. 2014. Web. 15 Oct. 2014.
- ✦ Net Losses: Estimating the Global Cost of Cybercrime- Economic Impact of Cybercrime II. Rep. Center for Strategic and International Studies, June 2014. Web. 15 Oct. 2014
- ✦ Latin American and Caribbean Cybersecurity Trends. Rep. Organization of American States & Symantec Corporation, June 2014. Web. 15 Oct. 2014.

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