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## A Multistakeholder Effort to Reduce Spam – The Case of Brazil

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### Internet Governance in Brazil

The Brazilian Internet Steering Committee – CGI.br

- a multi-stakeholder organization
- created in 1995 to coordinate all Internet related activities in Brazil

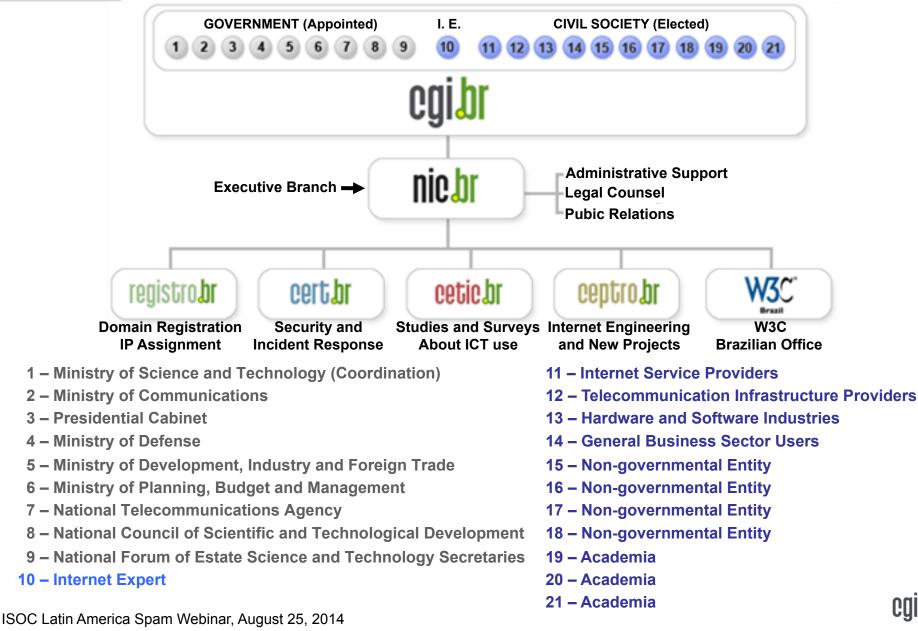
Among the diverse responsibilities reinforced by the Presidential Decree 4.829, it has as attribution:

- to propose policies and procedures related to the regulation of Internet activities
- to recommend standards for technical and operational procedures
- to promote studies and recommend technical standards for the network and services' security in the country





# CGI.br and NIC.br Structure



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### Anti-Spam Initiatives in Brazil – Historical Perspective

- Early 2000's: Network operators changed contracts and established Acceptable Use Policies (AUP) forbidding spam
  - drastic reduction in spammers' operations in the country (that used to sell open relays and hosting services for international spammers)
- Mid 2000's: Brazil continually rising in the rankings of top spamming countries
  - needed to determine which really were the problems:
    - Local spammers?
    - Bullet proof services for international spammers?
    - Open relays?
    - Open proxies and/or infected machines (botnets/zombies)?
    - Bad practices of e-mail marketing?
  - need to involve multiple stakeholders to determine which policies and technical actions could actually be effective, depending on the problem
- 2005: Anti-spam Task Force (CT-Spam) created by CGI.br
  - brought together technical community, ISPs, network operators, academia, e-mail marketing associations, legal advisors and regulators



### **CT-Spam Initial Findings**

- CERT.br abuse reports showed that
  - more than 80% of spam was due to open proxies (maybe botnets)
  - almost all remaining spam was direct delivery (probably botnets)
- We established the SpamPots Project and produced independent metrics about how the the Brazilian Broadband Infrastructure was being abused by spammers who used open proxies and botnets
  - result: international spammers, abusing Brazilian networks to send spams to victims in other countries
- There was a residual amount of complaints from bad e-mail marketing practices
- There were no indications of big spammers' operations inside the country anymore (hosting advertisement, selling delivery services)
- Decision was reached to start several working groups to act on each specific problem



### Antispam.br Initiatives

Antispam.br is maintained by NIC.br/CGI.br, with technical coordination from CERT.br.

- Main activities since 2005:
- Port 25 Management working group (discussed in length in a bit)
- Study on legal framework
  - evaluated bill proposals in Congress
  - created a report with a new text of legislation proposed to Congress
- Email Marketing Self Regulation initiative (<u>http://capem.org.br</u>)
  - Involved ISPs, e-mail marketing associations and consumer rights organizations
  - Builds upon the success of self regulation framework already in place for other marketing sectors (e.g. CONAR - <u>http://www.conar.org.br</u>)
- **Best practices and awareness**
- ISPs and Telecom operators (<u>http://www.antispam.br/admin/</u>)
  - technical best practices: DKIM&SPF (DMARC), Greylisting, etc
- End users



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### **Anti-Spam and Security Awareness**

# Antispam.br website and cartoon videos about spam and security

http://www.antispam.br/videos/english/



#### "Secure Internet" Portal

 Points to all public awareness initiatives in the country

#### http://www.internetsegura.br/



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### **Internet Security Best Practices for End Users**

#### PT: "Cartilha de Segurança para Internet" http://cartilha.cert.br/

ES: Translation in partnership with ISOC: "Cartilla de Seguridad para Internet" http://cartilla.cert.br/

Cartilha de Segurança para Internet

- support material for trainers and teachers
- booklets, stickers and slides distributed to parties interested in promoting security campaigns



ISOC Latin America Spam Webinar, August 25, 2014

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# Port 25 Management Working Group

Why to create a working group as part of Antispam.br?

- Common Goal: reduce the abuse of the Internet infrastructure in Brazil by spammers
  - reduce direct delivery and the abuse of open proxies
  - Brazilian networks were being affected negatively
- The adoption of port 25 management needed to be articulated among different sectors, mainly
  - E-mail providers needed first to move mail submission to a different port (587/TCP – RFC 6409) and migrate all users
  - Then Telecom companies would be able to block outgoing port
    25 traffic

## Port 25 Management Working Group Members

Who was involved

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- Coordinated by CGI.br with technical coordination by CERT.br/ NIC.br
- Initial players: Telecoms, ISPs and Associations of these sectors, Anatel (Telecom regulator), the CGI.br representatives for these sectors
- Players identified in further meetings: Federal Prosecutor's Office, Consumer Defense organizations and Ministry of Justice
- A formal implementation agreement was signed
  - CGI.br, NIC.br, Anatel, Telecoms and ISP Associations
  - The consumer protection associations formally supported the agreement



### **Main Results**

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- Port 25 management: Brazil is not listed anymore as a top source of spam on lists that keep track of direct delivery / open proxy originated spam
- E-mail marketing self-regulation: the board created after the code of practice was adopted is working with the major marketing companies
- Awareness campaigns: this is an ongoing effort, specially considering the security aspect
- Legislation proposals: still being discussed in Congress the proposed text was the base for a new text now being considered



### References

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- Internet Society Anti-Spam Technology & Issues <u>http://www.internetsociety.org/spam</u>
- Managing Port 25 for Residential or Dynamic IP Space: Benefits of Adoption and Risks of Inaction <u>http://www.maawg.org/sites/maawg/files/news/MAAWG\_Port25rec0511.pdf</u>
- OECD Anti-Spam Toolkit of Recommended Policies and Measures
  <u>http://www.oecd-ilibrary.org/science-and-technology/oecd-anti-spam-toolkit-of-recommended-policies-and-measures\_9789264027176-en</u>
- SpamPots Project
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