

Update on CERT.PT

TF-CSIRT, León 2009

Lino Santos

Presentation objectives

- Get to know FCCN
- Get to know cert.pt activities
- Get to know cert.pt national and international cooperation



- What does FCCN do?
- CERT.PT
- National cooperation
- International cooperation
- Other security activities
- Future development

What does FCCN do?

Private non-profit organization

- National Foundation for Scientific Computing
 - Foundation for Science and Technology
 - University Dean Council
 - National Laboratory of Civil Engineering
- Board
 - Pedro Veiga (Head)
 - Lusitana Fonseca
 - Pedro Guedes Oliveira
 - Gaspar Barreira
 - Maria Alzira Santos
- Staff: ~75

What does FCCN do?

The network

- FCCN manages the Portuguese NREN, TLD .pt and Portuguese IXP;
- More than 100 Higher Education and Research institutions
- More than 8.000 public schools
- More than 200 disability associations
- Own fiber between Valença - Braga - Lisbon - Elvas
- 10Gbps to London, 2.5 Gbps to Madrid

What does FCCN do?

Government initiatives

Portuguese Key Initiatives:

1. RCTS
2. Connecting Schools over Broadband
3. e-U - Virtual Campus
4. b-On - Online Knowledge Library



New Development Domains

- a) Grid Computing
- b) VOIP



- What does FCCN do?
- CERT.PT
 - Short description
 - Statistics
 - Resources and funding
- National cooperation
- International cooperation
- Other security activities
- Future development

Mission

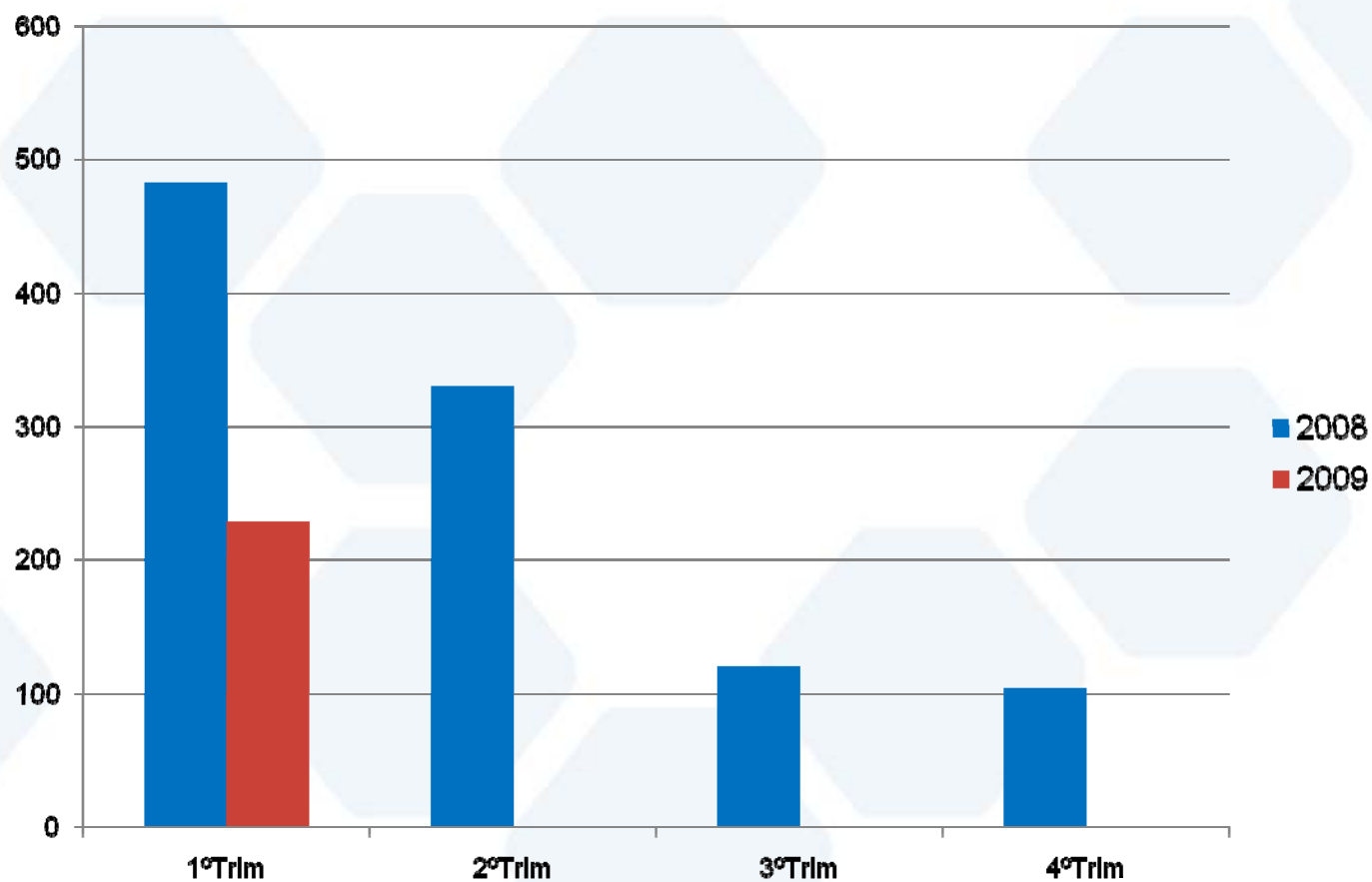
- Offering technical support to computer users in resolving security incidents, advising on best-practices, analyzing artifacts, and coordinating actions with the parties involved.
- Gather and disseminate a set of information about vulnerabilities and recommendations, pertaining to potential security risks and ongoing malicious activities
- Gather from accredited sources information related to security vulnerabilities, and act on the community with the goal of minimizing impact at the National level
- Promote the creation of new CERT/CSIRTs in Portugal, and raise awareness of security issues on computer users

Constituency

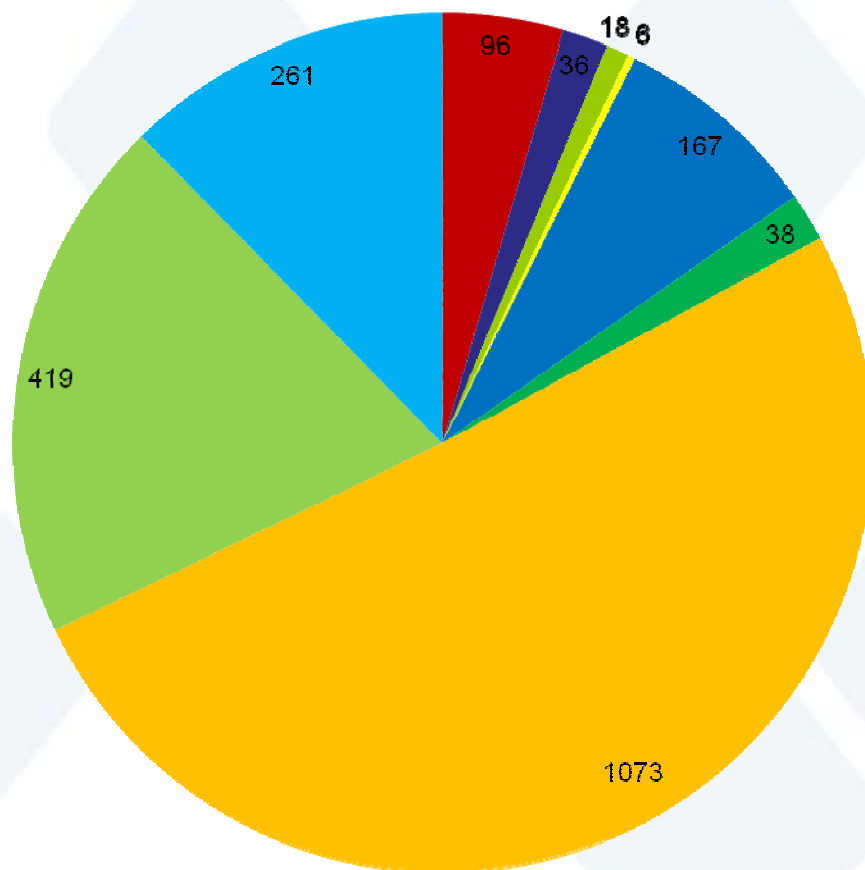
- IPv4 e IPv6 IP address blocks assigned by RIPE
- NREN
- School network
- NOCs
- FCCN Corporate network
- Incident coordination within Portugal

Service portfolio

- Incident handling
- Incident coordination
- Alert and best practice dissemination
- Training
 - Establishment of new CSIRTs
 - Prosecutors and law enforcement
- Vulnerability testing

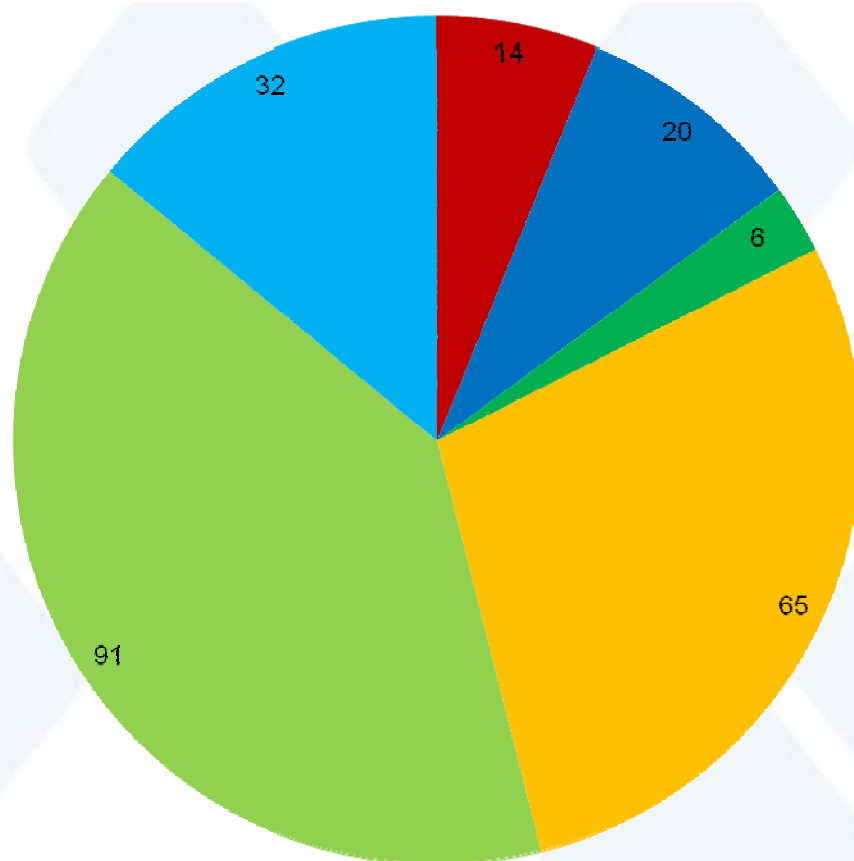


CERT.PT Statistics 2008



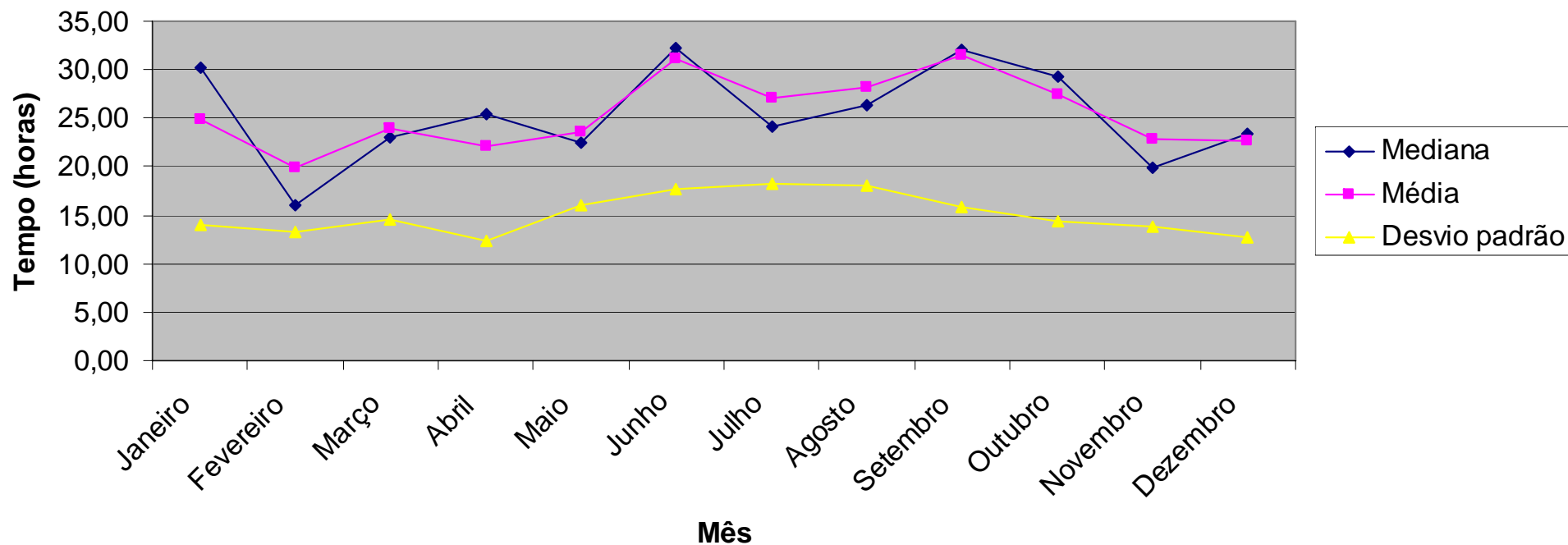
- Port scanning
- Malicious code
- Denial of Service
- Root compromise
- Intrusion attempt
- Unauthorized access
- SPAM
- Copyright violation
- Fraud

CERT.PT Statistics 2009



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First response time

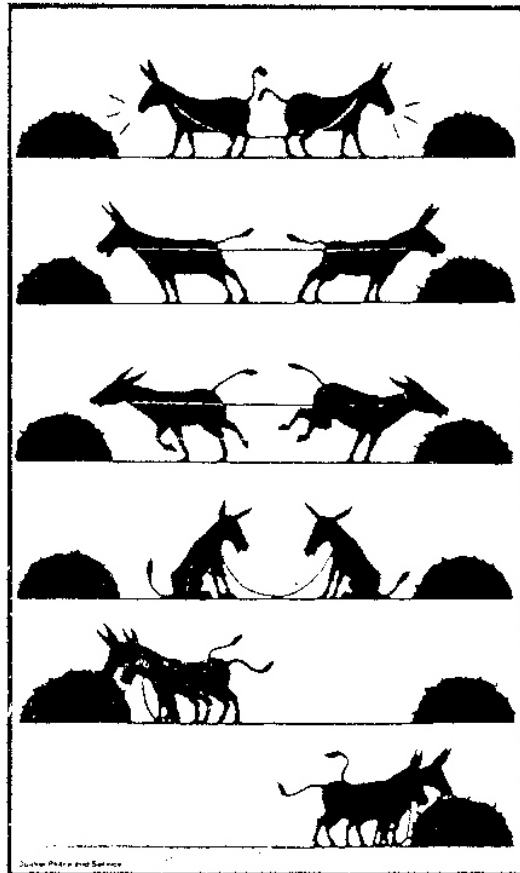


The Team

Resources and funding

- Funding
 - OE-UMIC: Incident handling and awareness activities
 - POSC: Training and other development projects
- Human resources
 - Lino Santos, Gustavo Neves, Luís Morais, Filipa Macieira, on-going recruitment





- What does FCCN do?
- CERT.PT
- National cooperation
 - Training
 - National CSIRT network
 - Law enforcement
- International cooperation
- Other security activities
- Future development

National cooperation Training

Sector	Participants	
Industry	25	BPN, Microsoft, Novabase, Siemens, Unysis, SINFIC, CGD
Telecom	8	Zon, Portugal Telecom, SonaeCom
Public administration	15	LNEC, CM Alpiarça, CEGER, GNS, IGF, CNPCE, MoI
Higher education	22	IPB, U.Aberta, UTL, UP, UTAD, UBI, UAL, UNL, ...
Military	18	Army, Navy and Air forces

National cooperation

National CSIRT network

- National directory of security contacts
- Formal agreement:
 - Mandatory incident handling capability
 - Points of contact
 - Common Taxonomy and policies
 - Statistical gathering
- Target entities
 - ISPs
 - Banking
 - Universities
- Technical Forum

National cooperation

Law enforcement

- Formal agreement with criminal investigation body
- Informal agreements with other security agencies
- Formal agreement with armed forces
- Specific training to security agencies and judicial authorities

Accredited by
TRUSTED

Introducer
The European CSIRT Directory

- What does FCCN?
- CERT.PT
- National cooperation
- **International cooperation**
 - TF-CSIRT
 - ENISA
 - Microsoft
- Other security activities
- Future development

- Attendance since 2002
- Accredited team since 2004
- Member of RTIR WG
- Co-organized the Lisboa meeting in 2006
- TRANSITS training course in Carcavelos

- National Liaison Officer
- Head of FCCN is member of the board

Internacional cooperation

Microsoft SCP

- Portuguese version of microsoft bulletins
- Exchange of statistics
- Technical support

Linha Alerta internet **seguraopt**

- What does FCCN?
- CERT.PT
- National cooperation
- International cooperation
- **Other security activities**
 - Safer Internet Project
 - Critical infrastructures Protection Program
- Future development

Other security activities

Safer internet project

- Linha Alerta hotline operation
- Content production
- Awareness activities



- Critical Infrastructure Protection Program
 - Within the Portuguese emergency preparedness council (CNPCE)
 - GIS of CI
 - Establishing the cyberspace committee
 - Starting a project on risk analysis on CI
 - CIWIN support officer



- What does FCCN do?
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- International cooperation
- Other security activities
- **Future Development**

Other security activities

Netflow analysis

- Real time traffic monitoring
- QoS analysis and BW management
- Abnormal traffic detection
- Malware detection and analysis
- Security policies violation
- Tool identified: Nfsen

Other security activities

IDS network

- Major pillar for proactive activities
 - Ongoing malicious activity
- Centralized management
 - Signature management
 - Database
 - Pattern detection
 - Statistical information
- Trial with 4 Universities

Future Development

National CSIRT network

- Build a CSIRT and security contact directory
- Agree on
 - Taxonomy
 - Toolset
 - Code of practice
 - Accreditation procedure

Thanks!