Jornadas sobre Seguridad Informática

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(on behalf of CLARA – Latin American Cooperation of Advanced Networks)







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Agenda



- About CLARA
- Security overview in LA&C academic networks today
- CLARA: The proposal
- CLARA Security Task Force (GT-Seg)
- Collaborative activities among LA&C CSIRTs: projects in progress
- References



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Red

Cooperación Latino Americana de Redes Avanzadas

(Latin American Cooperation of Advanced Networks)

http://www.redclara.net





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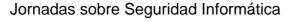
CLARA backbone





- Latin American Research, Education and Development network.
- Association of NRENs (*National Research* and Education Networks).
- Interconnects 19 countries
- Academic and Research community:
 - Universities and Higher Education
 Schools
 - Technology Centers
 - Research Centers and Institutions
 - etc
- Miillions of Internet users!





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CLARA Members

The following Latin American NRENs are members of CLARA:

- Argentina
- Brazil
- Bolivia
- Colombia
- Chile
- Costa Rica
- Cuba
- Dominican Republic
- Equador
- El Salvador

- Honduras
- Guatemala
- Mexico
- Nicaragua
- Panama
- Paraguay
- Peru
- Uruguay
- Venezuela
- + Caribbean countries (in the near future)



http://www.redclara.net/en/01/07.htm



Security overview in LA&C academic networks today

- Poor security awareness
- Security: expense vs. investment!
- Lack of expertise in security among Sys Admins
- Difficulties in tracking vulnerabilities and keeping the systems up-to-date
- Systems and networks not properly configured
- Absence of security policies and best practices
- Poor culture of security incidents report
- Misuse of computer resources
- etc, etc, etc.



Rec





So, what can be done? ...

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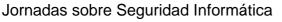




- There is no a single solution!
- A multiple-level security strategy is needed











CLARA Approach

 Creation of the CLARA Security Task Force (GT-Seg), based on CSIRTs participation.

→ GT-Seg was set up in April, 2004

• Mission:

"To promote the security culture in Latin American and Caribbean region"

Initial challenge:

• To build CSIRT capabilities in each NREN and to promote collaborative actions among the ones already established.





GT-Seg: Goals





- Establish a computer security framework in each NREN.
- Promote the development of new CSIRTs in the LA&C region and train their staff in security issues.
- Provide a discussion forum to share knowledge and experiences in security area, especially in incident response.
- Facilitate the exchange and data correlation of security incidents related information.
- Promote a coordinated (and timely) response to security incidents.





GT-Seg: Goals



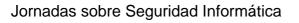
- Have a global view of security incidents in LA&C region.
- Establish pilot services for CSIRTs community in LA&C region
- Create and disseminate security best practices for academic environments
- Build an updated database of security point-of-contact for each NREN.
- Cooperate with other regional initiatives
 - TF-CSIRT → Europe

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APCERT → Asia & Pacific



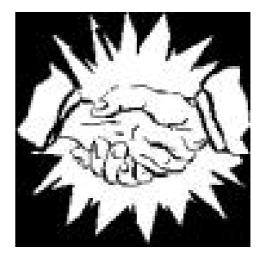






GT-Seg: Participation

- Primarily, open to:
 - CLARA members NRENs
 - organizations connected to them



• Other participants can be allowed to join as long as their participation contributes to achieve the CLARA goals.

 \rightarrow The CLARA Technical Comission will evaluate each request and approve it (or not) on a case-by-case base.



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GT-Seg: Action Plan for 2005-2006

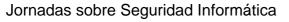
- Conduct a first LA&C general security situation survey
- Conduct a first LA&C CSIRT situation survey

Promote the establishment of new CSIRTs

 \rightarrow priorizing NRENs and then the institutions connected to them.

- Build a db of security point-of-contacts for each NREN.
- Continue the Security Training and Education Program (STEP)











GT-Seg: Action Plan for 2005-2006

[cont]

- Build a security best practices digital repository
- Organize regular meetings and seminars as part of the Security Awareness Program (SAP).
- Collaborate with other CLARA Task Forces/Working Groups.
- Promote collaboratives activities among existent
 CSIRTs in LA&C
- Cooperate with other competent organisms.





- Forensics Analysis
 - → The Forensic Challenge ("Reto Forense")

10 Reto Forense: Organized by REDIRIS (Spain)

http://www.rediris.es/cert/ped/reto [December, 2004]



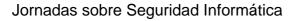
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20 Reto Forense: Co-organized by REDIRIS (Spain) and UNAM-CERT (Mexico)

http://www.seguridad.unam.mx/eventos/reto [May, 2005]

(*) CAIS/RNP (Brazil) staff members were invited to participate as judges at both events.





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Collaborative projects among LA&C CSIRTs

Security Training and Education Program (STEP-I and STEP-II)

LEVEL I: NRENS LEVEL II: Universities and Institutions connected to them

→ 1st "FIRST/TRANSITS" Course – Training of Network Security Incident Team Staff

During the 1st CLARA Technical Meeting – November 25-26, 2004 – Rio de Janeiro, Brazil Collaboration: CAIS/RNP (Brazil), UNAM-CERT (Mexico)

Audience: LEVEL I - Management and Technical staff from NRENs of Latin America countries

→ 2nd "FIRST/TRANSITS" Course – Training of Network Security Incident Team Staff

During the "Congreso de Seguridad en Cómputo 2005" – May, 2005 – Mexico City, Mexico Collaboration: CAIS/RNP (Brazil), UNAM-CERT (Mexico),), IRIS-CERT (REDIRIS, Spain) Audience: LEVEL II - Management and Technical representatives of the Mexican universities.











Collaborative projects among LA&C CSIRTs

Meetings and Workshops

→ 1st "CLARA Security Task Force" Meeting

During the 2nd CLARA Technical Meeting – April 25-27, 2005

Collaboration: UNAM-CERT (Mexico), CAIS/RNP (Brazil)

Participants: Management and Technical representatives from NRENs of the LA&C countries







Collaborative projects among LA&C CSIRTs

Early Warning Systems

→ "CAIS.Stormcenter" Project

Collaboration: CAIS/RNP (Brazil)

[A CAIS/RNP initiative today but it shall be expanded, collecting data from different sensors – honeypots, honeynets, darknet, etc - and generating statistics for Latin America region].

Anti-Spam and Anti-Virus

→ HERMES Project: Security in Academic Mail Servers

Collaboration: REUNA (Chile), RETINA (Argentina), CAIS/RNP (Brazil), REDIRIS (Spain)

→ RESCATA/NAS Project: Network of Antivirus Sensors

Collaboration: REDIRIS (Spain) and others [Ref http://alerta-antivirus.red.es]

[A REDIRIS initiative today but it is being expanded, collecting data from distributed antivirus sensors and generating statistics for Latin America region]. CAIS/RNP from Brazil has already joined it.







Contact Information

CLARA - Cooperación Latino Americana de Redes Avanzadas

http://www.redclara.net



CAIS/RNP – Brazilian Academic and Research Network CSIRT http://www.rnp.br/cais

UNAM.CERT – National Autonomous University of Mexico http://www.unam-cert.unam.mx





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