ccTLD Paraguay

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A brief description of NIC.py

- At the RENACyT project (Red Nacional de Ciencia y Tecnología) it is mention the need for a local organization that manages the domains.
- As the result, the CNC (Centro Nacional de Computación, Universidad Nacional de Asunción) and the LED (Laboratorio de Electrónica Digital, Universidad Católica “Nuestra Señora de la Asunción”) together formed the NIC.PY.
- The IANA delegated management functions to NIC.PY at the early 90’s.
A brief description of NIC.py

- By the year 1993 there were approx. 30 domains delegated
- In the beginning: traditional 2\textsuperscript{nd} level domains:
  - \{com,net,org,gov,mil,edi\}.py
- Each domain request is reviewed
  - to avoid disputes
- Since may 2008: coop.py domains
Currently

• Delegated Domains
  - edu: 153
  - org: 523
  - mil: 5
  - coop: 8
  - net: 37
  - com: 6865
  - gov: 132
Hardware

• **Primary Servers**
  – Currently there are 2 primary servers at the CNC

• **Secondary Servers**
  – There are 6 secondary servers, all of them spread around the world.
  – Brazil, The Netherlands, U.S.A., Mexico, Switzerland and Sweden.
Software

• For the registry process administration:
  – we own a set of self-made Perl-CGI, PHP and JavaScript script's for the visual web-based administration.
  – and have an administration application based on a 4GL vision system.

• Our DBMS is currently an Ingres one but we are looking forward to move on a Postgresql based one.
State of the Art

• IDN
  – Actually the preparation are finished a time ago.
  – Next step is a consensus to measure the scope and other issues.

• DNSSEC
  – There has been local researches and even a master's thesis about the implementation of DNSSEC, but it isn't implemented yet.
  – We are looking in a short future to implement DNSSEC.

• EPP
  – Not implemented.
Thank you very much