

.NG ccTLD Registry Operation



You are a Nigerian! Are You .NG

CoCCA Registry-Background

➤ CoCCA (Council of Country Code Administrators)

- Non-profit organization
- Forum for collaboration among member ccTLDs

➤ Activities

- Harmonized policy development
- Provision of training / technical support for member ccTLDs
- Development of registry software (CoCCA OpenReg)
- Deployment support

Upgrades, extra value added features according to requirements of ccTLDs

➤ Membership

- Free membership

You are a Nigerian! Are You .NG

Definitions

➤ **Registrant:**

The organization or person responsible for a domain

➤ **Registrar:**

The middlemen who interact with registries on behalf of registrants

➤ **Register:**

The data that is maintained by the registry

➤ **Registry**

The organization which maintains the register and publishes the zone

Thin Registry vs Thick Registry

➤ Thin

- Some shared-registry systems distribute much of the registry metadata to registrars, rather than maintaining it centrally
- Return minimal set of data, usually with a referral to a registrar's whois server

➤ Thick

- Shared registry systems keep all the metadata central
- Return all the registry metadata from one place, in one query

You Are Nigerian! Are You .NG ?

Why ?

➤ Why CoCCA registry software ?

You are a Nigerian! Are You .NG

CoCCA Open Registry

- Runs on

Windows, Linux, MacOSX & Solaris

- Open source based

- Fully featured Registry-Registrar components

- Various value added features

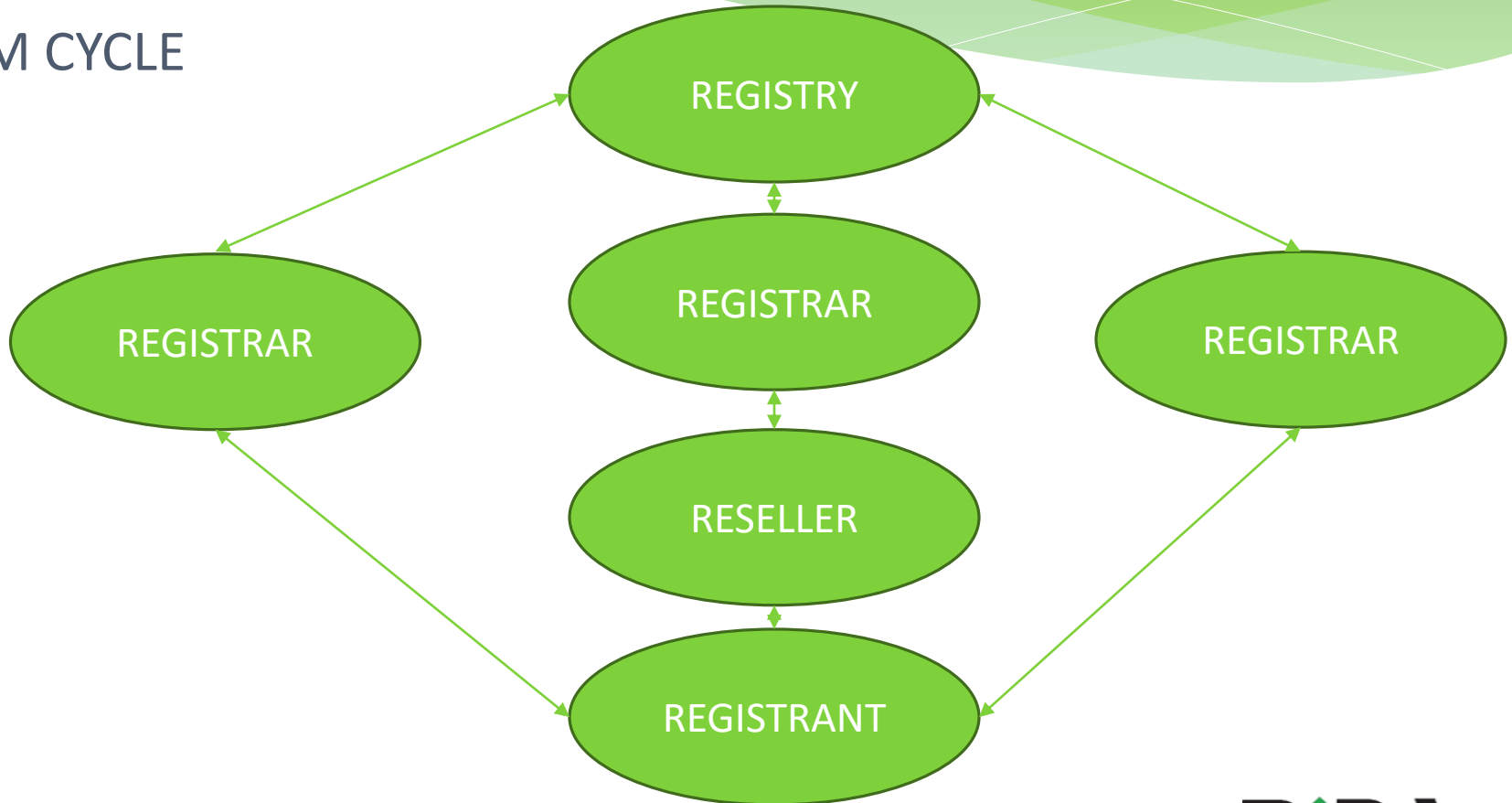
Automatic PDF invoicing, customizable whois etc

- Shared Registry System

You are a Nigerian! Are You .NG

Shared Registry Model

SRM CYCLE



You are a Nigerian! Are You .NG

Components

- PostgreSQL for database
- Caucho Resin Web Application Server
- Java 1.7 or Better Language
- Bind 9.0 or better

Whois Data

- Mechanism for retrieving metadata from registry
- RFC 954 (nickname/Whois) <https://www.ietf.org/rfc/rfc954.txt>
 - No data format specified
 - Much of the specification describes a query/retrieval strategy that has never been implemented
- Every registry's whois output looks different
 - CoCCA whois is customizable as which data should be available for public

You are a Nigerian! Are You .NG

Features

- Zone generator
- Customizable whois: Public access to all whois information can be controlled by the registrant
- Domain transfer
- Registrant controlled registrar transfers (full domain name portability)
- Flexible in customization according to applied registry policies
- Renewals
 - Automatic invoicing
 - Multi-year renewals, Bulk renewals
- Restriction on what names can be registered
 - offensive names
 - Generic names: Names of places, famous personalities
 - Trademarks / Trade names

You are a Nigerian! Are You .NG

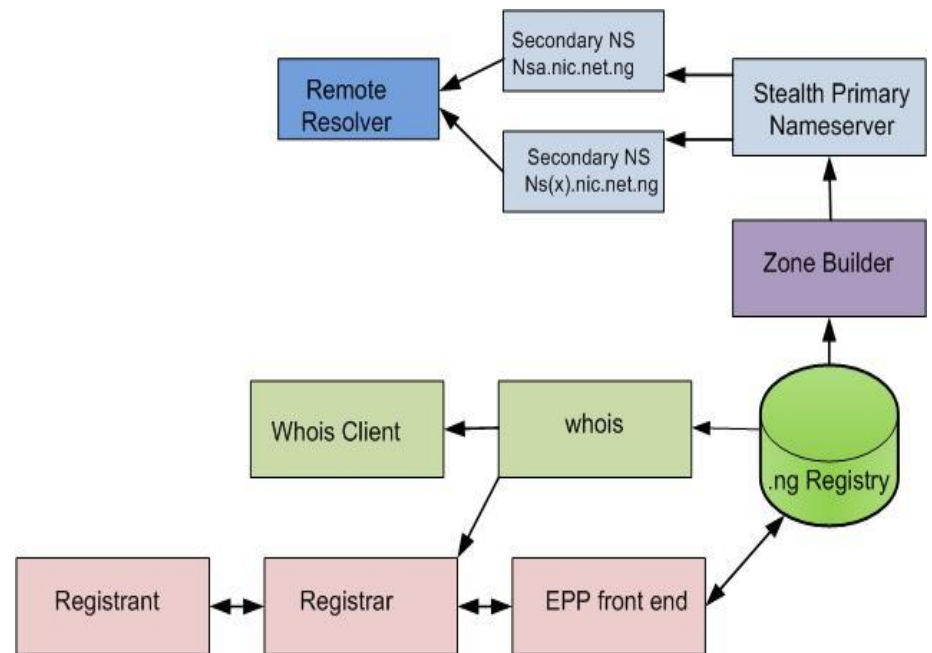
ccTLDs using CoCCA Registry

- ccTLDs using CoCCA Registry
 - * Afghanistan (.af)
 - * Christmas Island (.cx)
 - * Dominica (.dm)
 - * Kenya (.ke)
 - * Norfolk Island (.nf)
 - * Nigeria (.ng)
 - * Timor-Leste (.tl) Legacy (.TP)
 - * Mauritius (.mu)
 - * Namibia (.na)
 - * South Georgia (.gs)
- In discussion to use
 - * Mongolia .mn

You Are a Nigerian! Are You .NG ?

The .ng Registry Design

- 3R Registry Model
- Public WHOIS server
- Public WHOIS web interface
- EPP interface for the registrars
- Escrow backup with Cocca
- Stealth Primary Server



The .ng ccTLD network Architecture

➤ The Registry

- CentOS Linux
- Cocca registry software (web & EPP)
- PostgreSQL Data Base software
- Bind DNS software
- Primary Stealth DNS

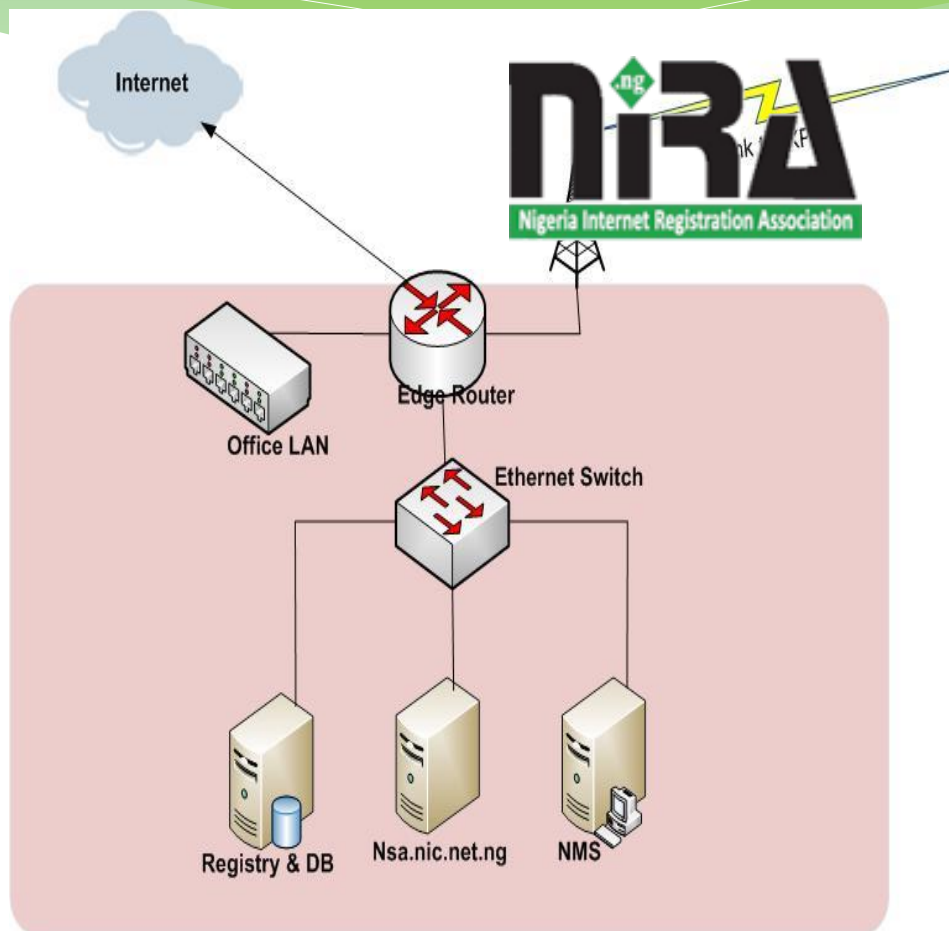
➤ Nsa.nic.net.ng

- Open BSD
- Bind DNS Software

➤ NMS

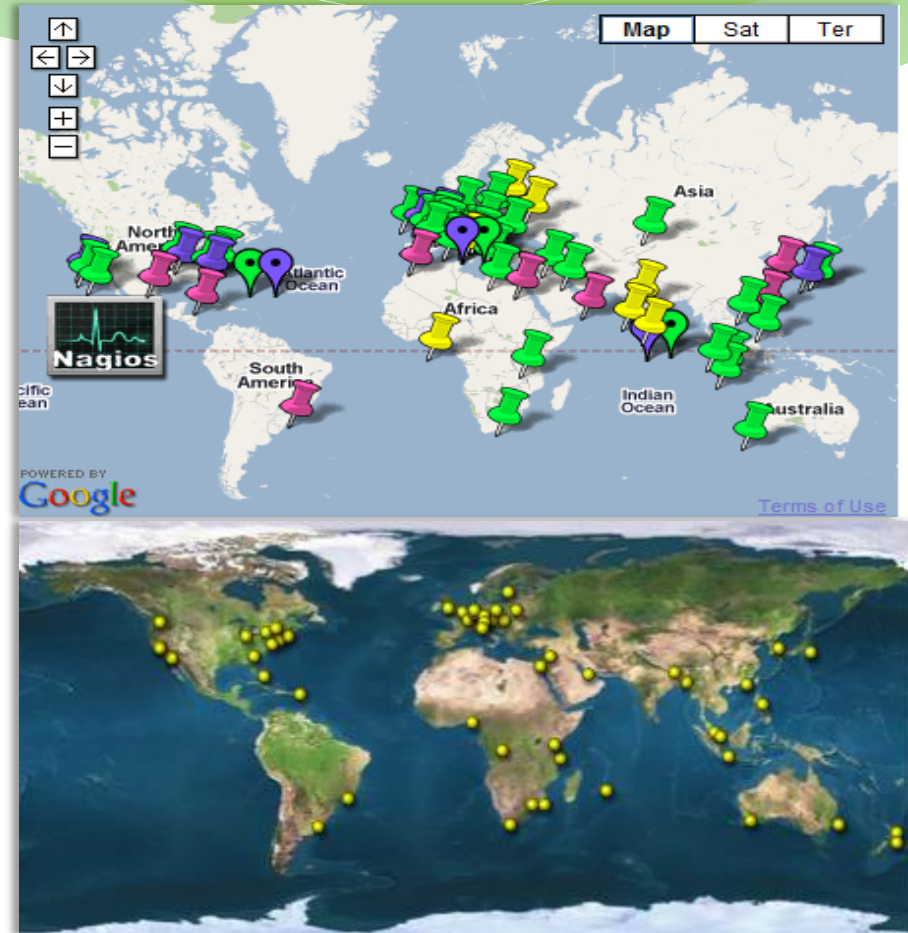
- Tembria Server Monitor
- Paessler PRTG

➤ Standby Router & Switch

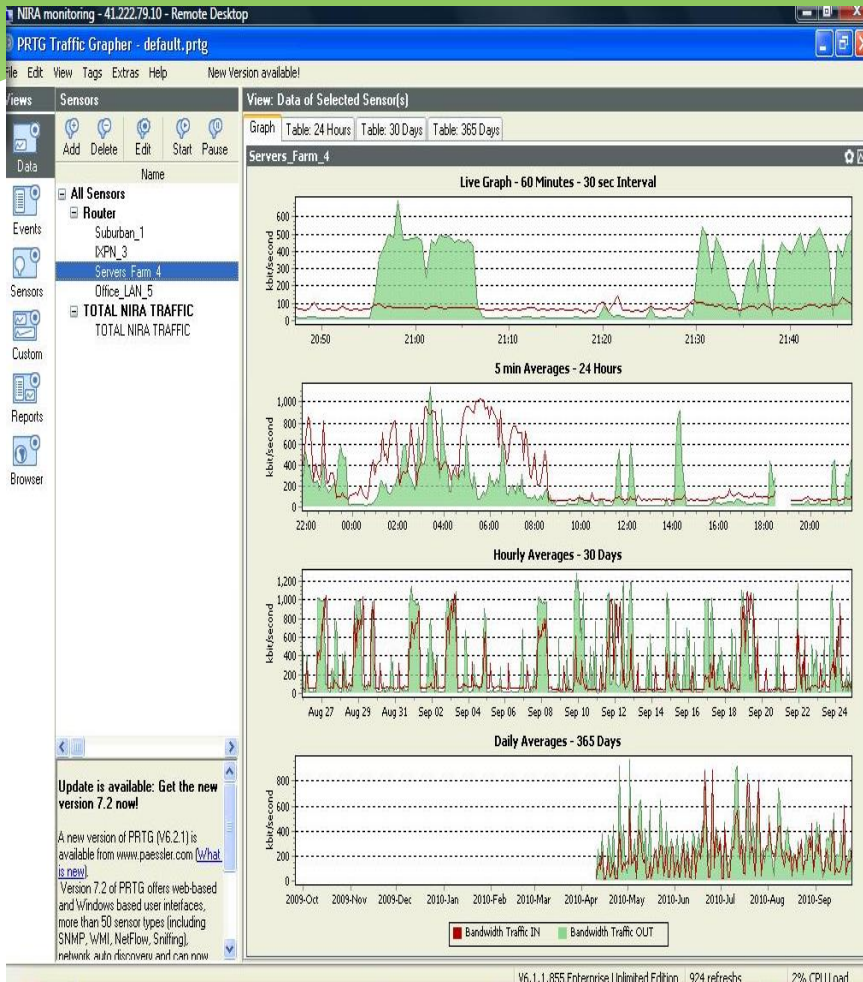


Secondary Name Servers

We have Secondary servers spread across the globe.



Network Monitoring



tembria server monitor™
 13 days left in your evaluation of Tembria Server Monitor.

- Tembria Server Monitor
- Dashboards
- Network Devices
- Event Monitors
 - Default Group
 - NSA
 - RB192
 - Registry
- Views
- Event History
- Reports
 - Summary Reports
 - Overall Summary Report
 - Summary by Network Device
 - Summary by Event Monitor
 - Summary by Notification Type
 - Service Level Reports
 - Configuration Reports
- Tools
- Settings and Preferences
- Help and Documentation

Event Monitor Report for the Week of 2010-09-13

Report Span: Weekly Report Period: 2010/09/13

Print Friendly Version

Event Monitoring



Event Monitors

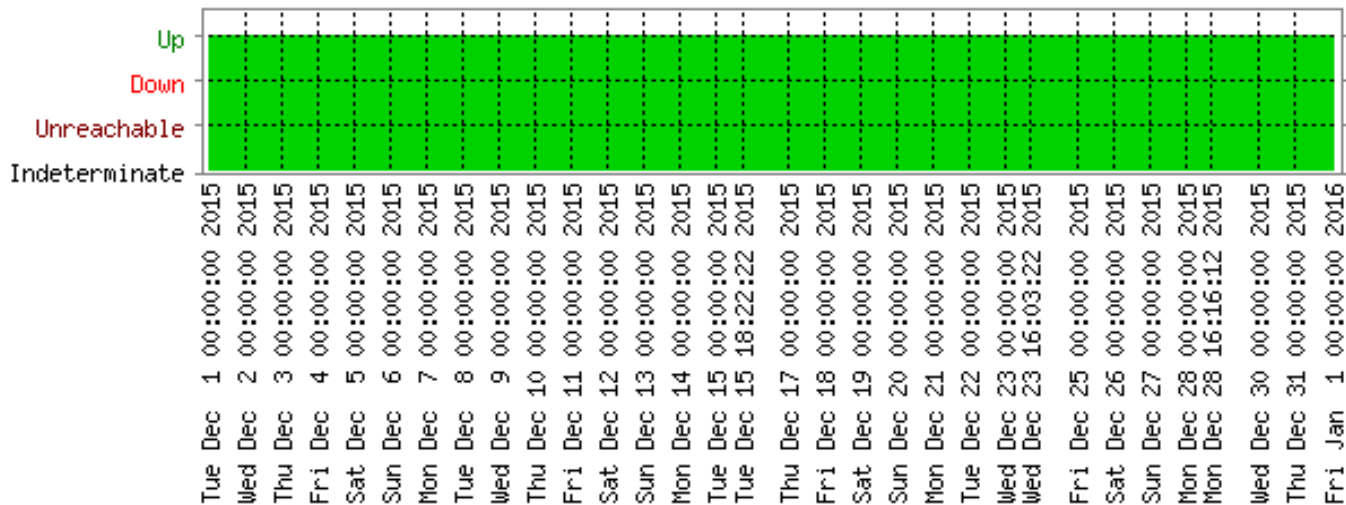
Description	Last Run Time	Successes	Failures	Ratio
NSA	9/19/2010 11:58:13 PM	3354	0	100.00%
Registry	9/19/2010 11:59:38 PM	3354	0	100.00%
RB192	9/19/2010 11:57:30 PM	3353	1	99.97%

You are a Nigerian! Are You .NG?

Registry Monitoring

State History For Host 'la_nira_registry'

Tue Dec 1 00:00:00 2015 to Fri Jan 1 00:00:00 2016



Up : (99.951%) 30d 23h 38m 30s

Down : (0.049%) 0d 0h 21m 40s

Unreachable : (0.000%) 0d 0h 0m 0s

Indeterminate: (0.000%) 0d 0h 0m 0s

THANK YOU

The image features a solid green background with a white wavy line at the bottom. The text "THANK YOU" is centered in the upper half of the image in a white, sans-serif font.