

# Registrar DS management for DNS providers

A Solution

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# Previous talk

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“Gather the Children DS” (ICANN-69)

Just for the EDU.ZA zone (Non EPP, Web based management)

- Now at 160 Domain (10 added)
- No new signed domains 😞
- No bad Nameserver records 😊

# Context

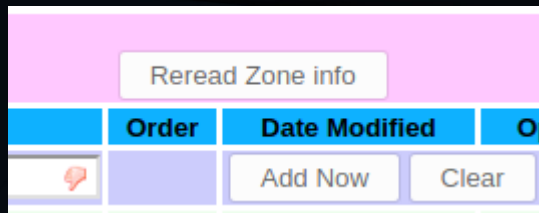
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- Non-ICANN accredited Registrar
- Accredited for ZA and some other ccTLD's
- Reseller for DNS Africa (fully automated with EPP)
- Reseller via others
- 720 possible TLD's
- 1561 Domains
  - 612 managed by internal DNS (I run the DNS)
  - 949 managed by external DNS operators

# DNSSEC Management

(before) Resellers/Registrants can...

- Click on a web link to get my system to poll their DNS to look for a DNSSEC Update



# DNSSEC Management

Resellers/Registrants can now...

- Simply sign their domain and include the correct CDS records in the zone
- Newly signed Domains, Trust Chain completed after 3 days
- Existing signed Domains acted upon daily

# DNSSEC Management

A php script runs at 3:30am, digs every “remote” domain for CDS, existing signed via DNSSEC aware resolver, all non-signed via TCP to the first listed Nameserver.

- CDS 0 0 0 0 – will remove all DS records
- Mirrors the CDS to DS records
- New CDS records are recorded and if no changes after three days, are deemed to be valid

# Other consequences

The “dig” uncovers any Nameserver anomalies

This is the major problem seen.

- 180 domains have added DNSSEC in past 3 months!
- A number of Resellers have fixed their Nameservers

# Current log

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```
=== posix === Mark Elkins <mje@posix.co.za> @ 0:00
e164.co.za: SOA Serial change: 2036258641 --> 2036777043
e164.co.za: DS records match - 1×CDS, 2×NS, @ 0:00 minutes
smtp.co.za: Activating a Waiting DS record
smtp.co.za: SOA Serial change: 2021011700 --> 2021032100
smtp.co.za: DS records match - 1×CDS, 2×NS, @ 0:00 minutes
...
(630 lines / 947 domain later)
-- Run of Registrar Zone scan took 11:02 minutes - 3 Zone changes --
```

Still very much a work in progress!



Thank you

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Questions?

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