# Discussion of the new DNS generation system

**DNS Operations SIG** APNIC 18 2nd September 2004, Fiji

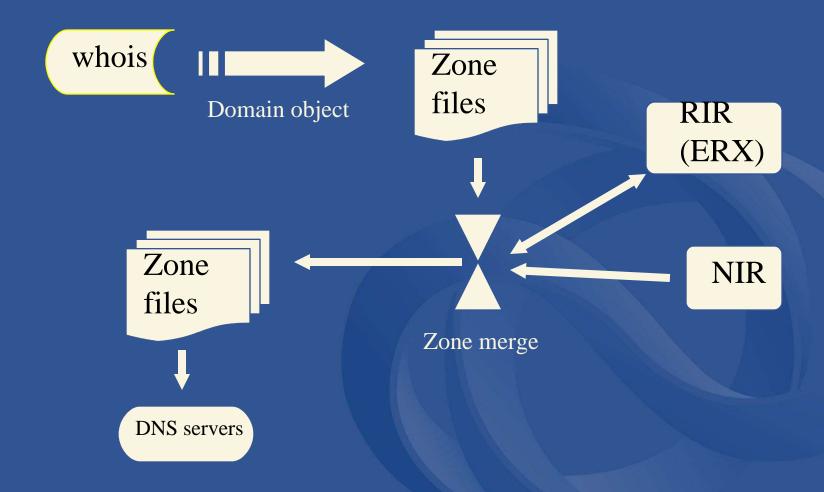


#### **Overview**

- Current DNS Generation process
- The New Process
- Implementation Status
- Future Considerations
- Discussion



#### The current process



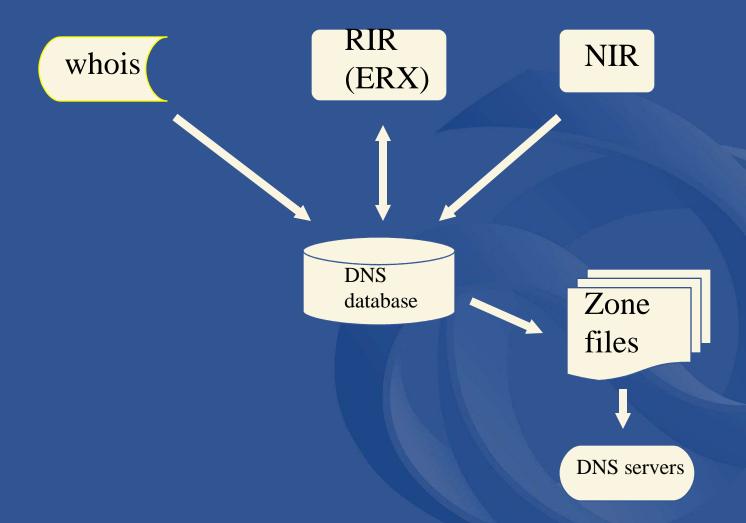


#### The current process

- Zones are a composite of:
  - WHOIS data (domain objects)
  - "zone-lets" received from NIR/RIR
- Zone generation takes 27minutes
  - (mostly data fetch delays)
- Zones valid, but 'dirty'
  - /24 records in addition to covering /16
- Manual zone addition process
- Not scalable



#### The new process





### The new process

- Benefits
  - All inputs pre-validated
  - Zone generation under 1 minute
  - Zone management improvements
  - Lame delegation synergies
  - Future flexibility (SECDNS)
  - Zone consistency
  - 'Cleaner' zone files
  - Removal of manual processes



#### Implementation state

- 95% functioning
  - Makes zones, not yet published to NS
  - No Management interface
- Zone state comparative testing
  - (against current system)
- Expected deployment date:
  - End of Nov '04



#### Future considerations

- DNSSEC support
  - How to maintain delegates DNS KEY?
  - How to re-sign zone?
  - Ongoing coordination with RIR/NIR
- In-addr.arpa glue
- Direct update from stakeholders
  - Per delegation record!
- Dynamic DNS



## Discussion?