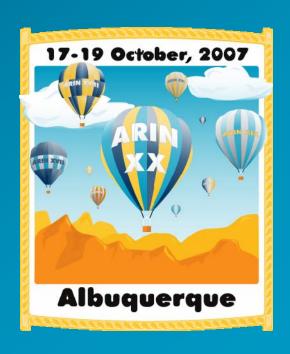
# Engineering Department Report

Mark Kosters
Chief Technical Officer
With a lot of help
from Cathy Murphy





#### Overview

- Staff
- Operational Statistics
- Accomplishments
- Work in Progress
- What's Ahead



#### Staff

Who is new? Me (Mark), Ron Henderson

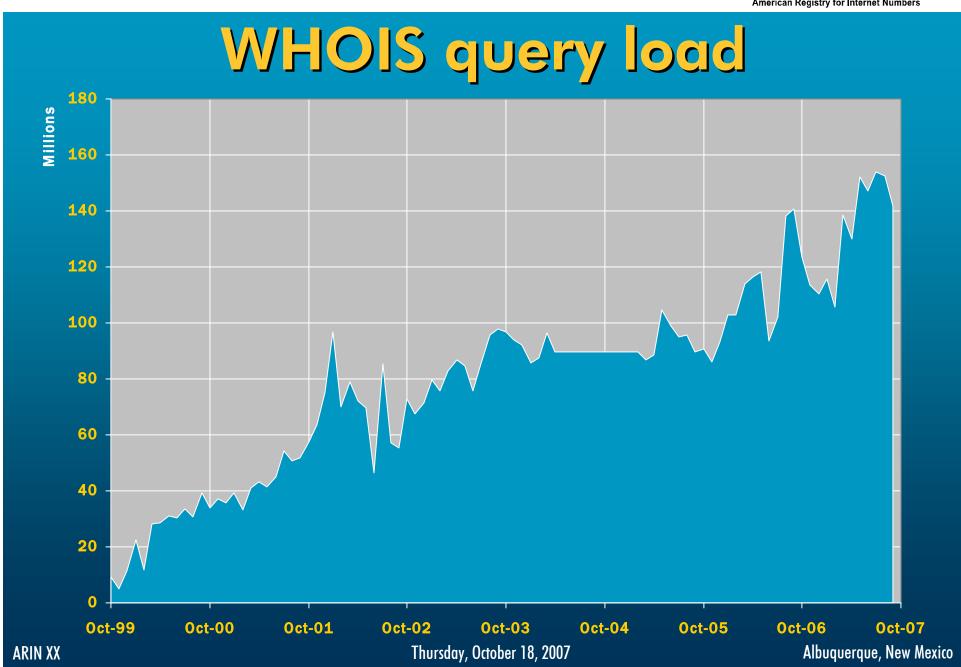
Here in ABQ

- Mark Kosters
- Cathy Murphy
- Matt Ryanczak
- Ray Stark
- Ron Henderson
- Tim Christensen

Holding the Fort

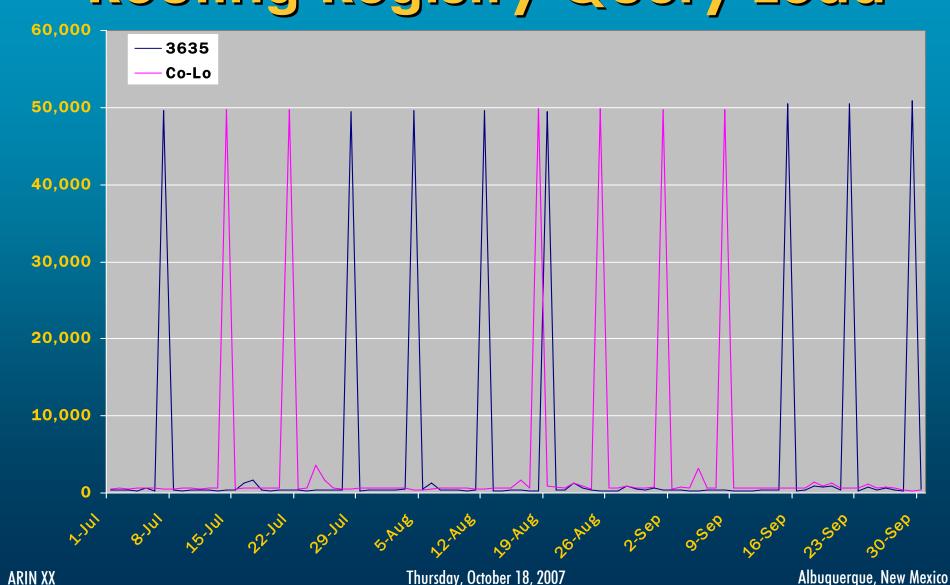
- Abram Thielke
- Adam Guyot
- Darren Kara
- Matt O'Donnell
- Matt Rowley
- Michael O'Neill
- Ming Yan







# Routing Registry Query Load





# Origin/OriginAS v. Route Views

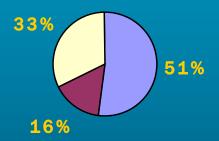
	IRR		WHOIS	
Routes checked	7,715		11,695	
Origin Found	5,269	68%	10,645	91%
Origin Not Found or Incorrect	1,949	25%	895	8%
Route Not Found	497	7%	155	1%

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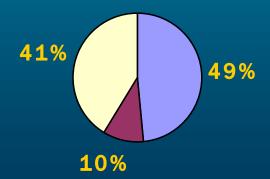
## Utilization Reporting

**Utilization by Network Count** 



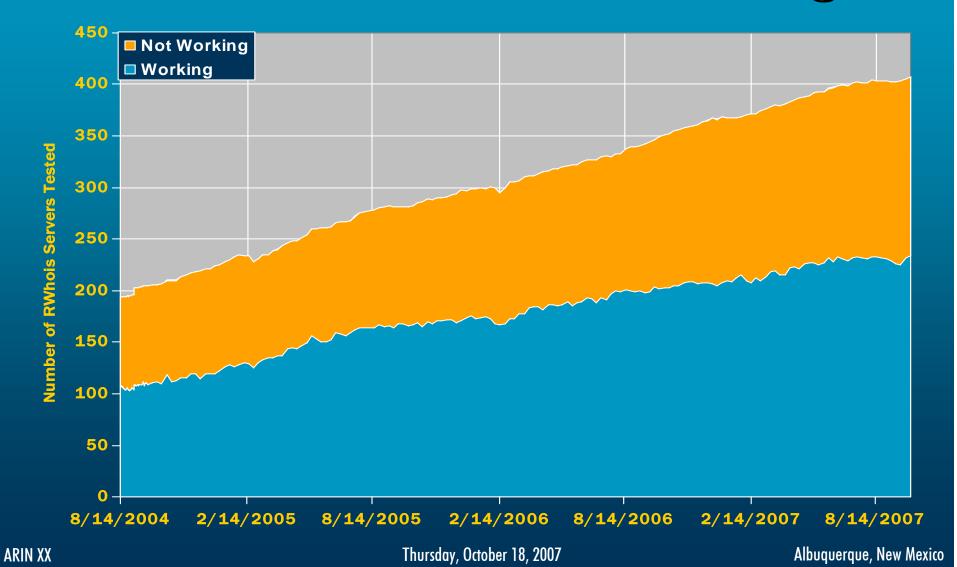
- Allocations using SWIP
- Allocations using RWhois
- □ Allocations w/o utilization data

**Utilization by Node Count** 



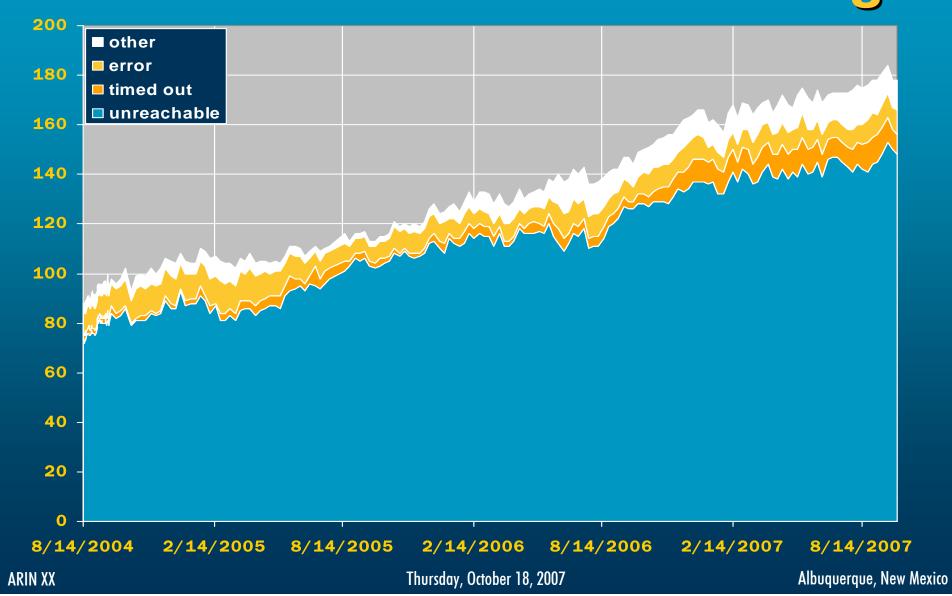


### RWhois Server Monitoring





## RWhois Servers Not Working





#### Valid RWhois Referrals



Thursday, October 18, 2007

Albuquerque, New Mexico



## Accomplishments

- Rebuilt and deployed a new secondary DNS infrastructure
- Enhanced In-house Registration Tools and detailed processing statistics
- Implemented PGP Authentication for Registration processing
- Implemented Lame DNS testing system
- Participated in PCI audit
- Implemented Template revisions



### Work in Progress

- Internal authentication changes
- Formalizing data storage requirements and improving data accessibility
- Application and database migrations due to hardware upgrades and OS changes
- Resource Certification (ResCert) design work continues



#### What's Ahead?

- Changes to support the new revenue recognition methodology
- Infrastructure improvements for greater redundancy
- Follow-up tasks from PCI audit
- Customer interface improvements



