Engineering Report

Mark Kosters, CTO

ARIN XXIII
SAN ANTONIO
26-29 APRIL 2009

Staffing

- **Operations**
  - 7 people
  - (one is an intern)

- **Development**
  - 9.5 people
  - (three are contractors)

- **Quality Assurance**
  - 3 people
  - (two are temps)

- **Requirements**
  - 2 people
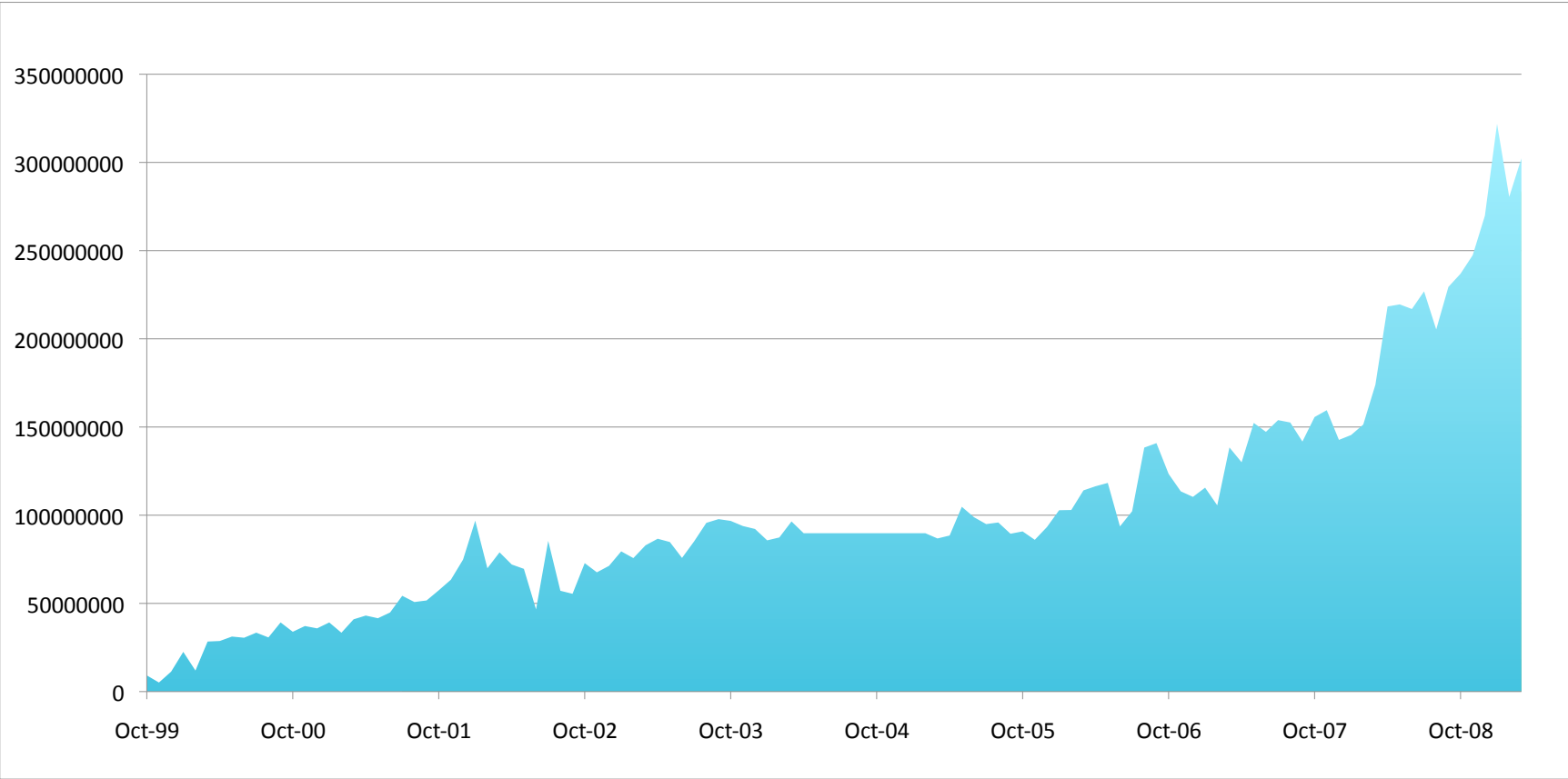 - (one is a contractor)

Operations

- Disaster recovery site built

- Diversity in serving up /8's under in-addr.arpa

- Colo operational for west coast

- IPv6 to desktop

- projects.arin.net

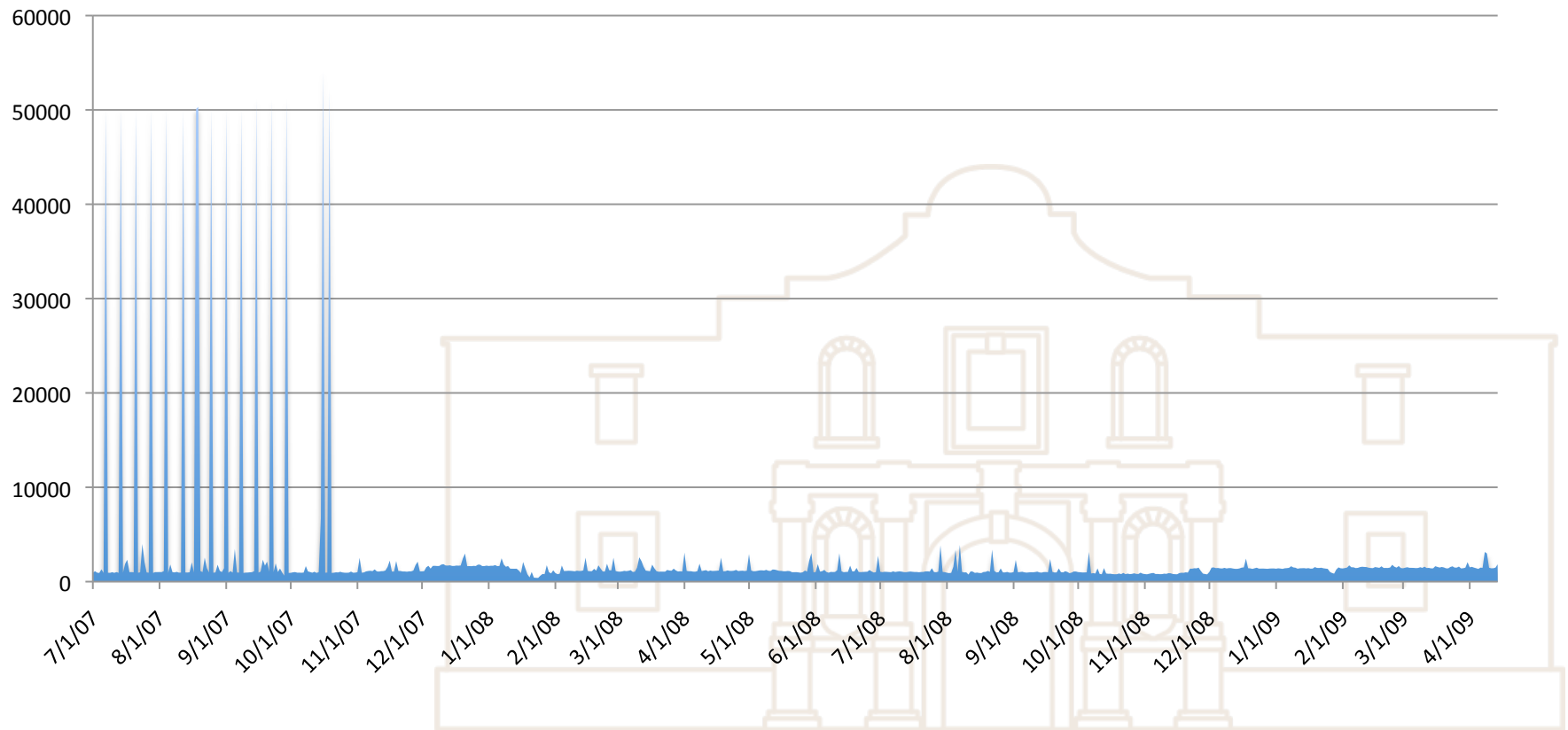- IT – 760 administrative requests answered

ARIN
American Registry for Internet Numbers

Whois Statistics
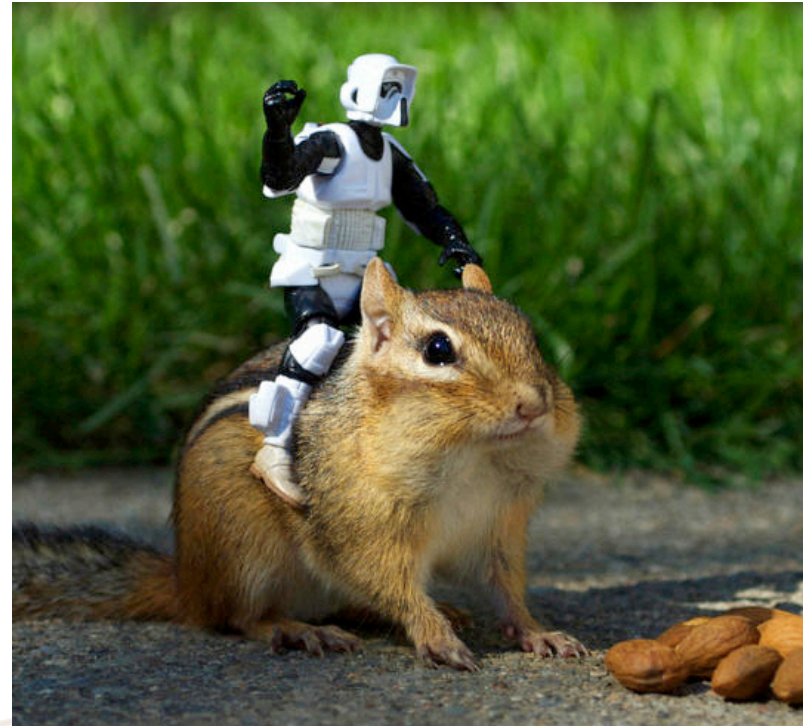
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IRR Whois Statistics

Queries

Origin AS V. Route Views

	IRR		WHOIS	
Routes checked	8,788		104,444	
Origin Found	4,648	53%	96,058	92%
Origin Not Found or Incorrect	3,625	41%	7,560	7%
Route Not Found	515	6%	826	1%

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IRR Prefix Length Distribution
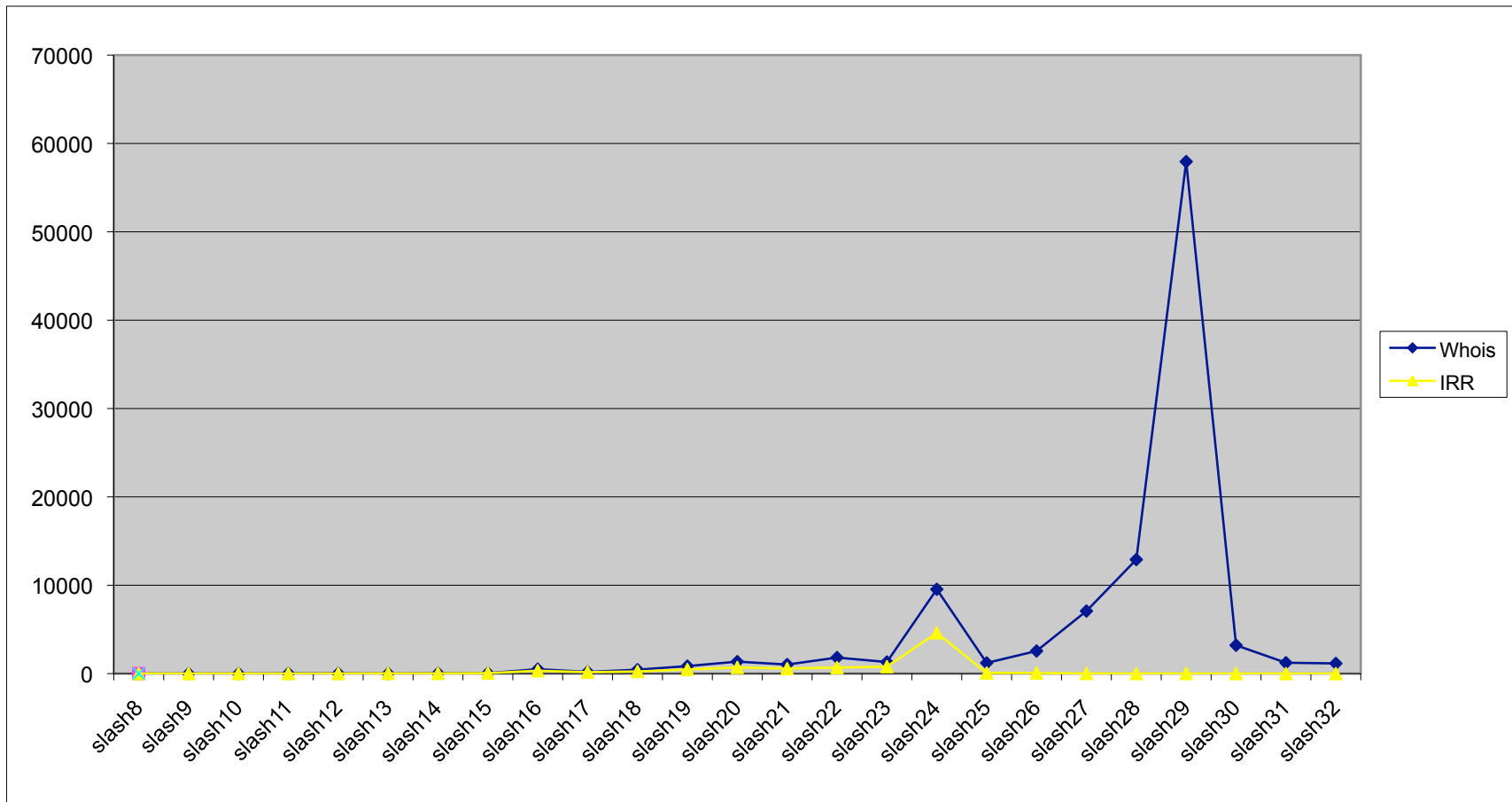
Development

- **ARIN Online**
  - Putting ALL interactions on the web
  - Enhancing ticketing system
  - Management interface

- **Improvements to existing systems**

- **Web site redesign**

- **AS plain Conversion for 4-Byte AS numbers**

- **Resource Certification**

- **DNSSEC**

- **LAME**

"Naked Cowboy"

Lame Lessons Learned

"Not-a-Cowboy"

- **Had a Policy Experience Report Before ARIN XXII**

- **Consensus of the room was to keep lame going**

- **Very conservative on removals**
  - Lots of surprise by holders – despite numerous email notifications
  - Turn on after the fact
  - Significant potential for negative impact

- **Methodology changes**
  - Making less strict
  - PTR checks along with SOA checks
  - Tussling with authoritative response

ARIN Online

- **Active accounts** = 5,381 (registered and confirmed, with active status)

- **Active accounts with a profile** = 4,930 (customer logged in and created a profile)

- **Confirmed POC links** = 4,872

- **POC requests** = 2,697

- **ORG requests** = 1,441

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Quality Assurance

- **Every update working through QA**

- **Minimizing the "oops" factor**

- **ARIN Online is a significant effort**
  - Broad browser support
  - Full regression testing

"Sheriff"

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Requirements

- Testable systems

- Document functionality

- Trying to stay faster than development

- Business Process Re-engineering

"Urban Cowboy"

Upcoming Challenges/Research

- **Additional ARIN Online features**

- **RESCERT Pilot to be up by end of Q2**

- **DNSSEC will be a phased approach**
  - Signing ARIN's /8's by end of Q2
  - Integration with ARIN On-Line by end of Q4 for signing your zones

- **Replacement of Legacy Systems**

- **LISP participation**

"*&^%#!"

Thank You for your Time and Attention

Questions?