

Engineering Report

Mark Kusters, CTO



Staffing

- **Operations**
 - 6 people (one was an intern)
- **Development**
 - 10 people (four are contractors)
- **Quality Assurance**
 - 3 people
- **Requirements**
 - 1 person
- **PHB**
 - Me

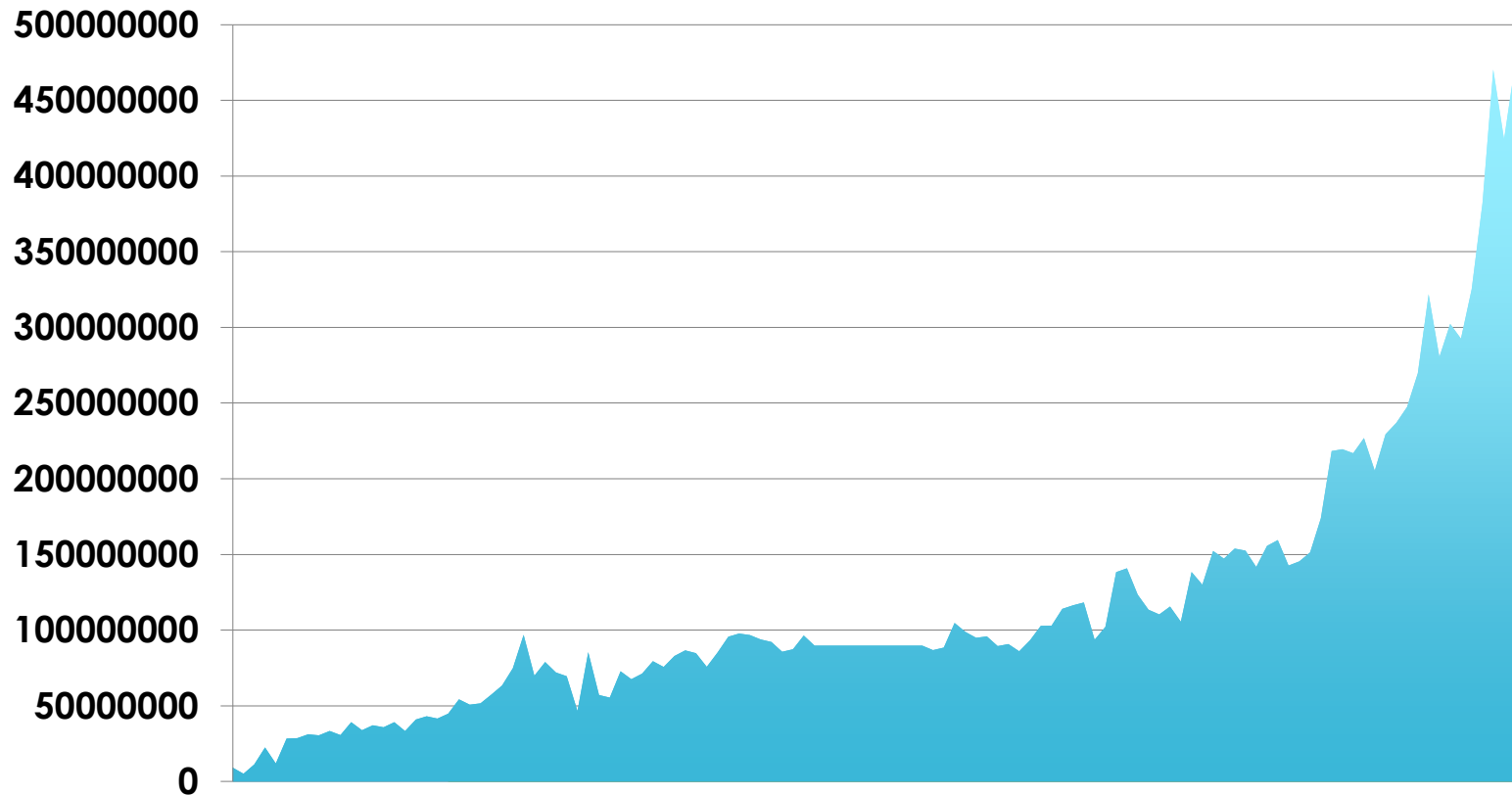


Operations

- **Disaster recovery replication**
- **Diversity in serving up /8's under in-addr.arpa**
- **Site operational for west coast**
 - Peering with 4Byte AS
- **DNSSEC operational**
- **V6 support for IRR in pilot**
- **IT – 589 administrative requests answered**

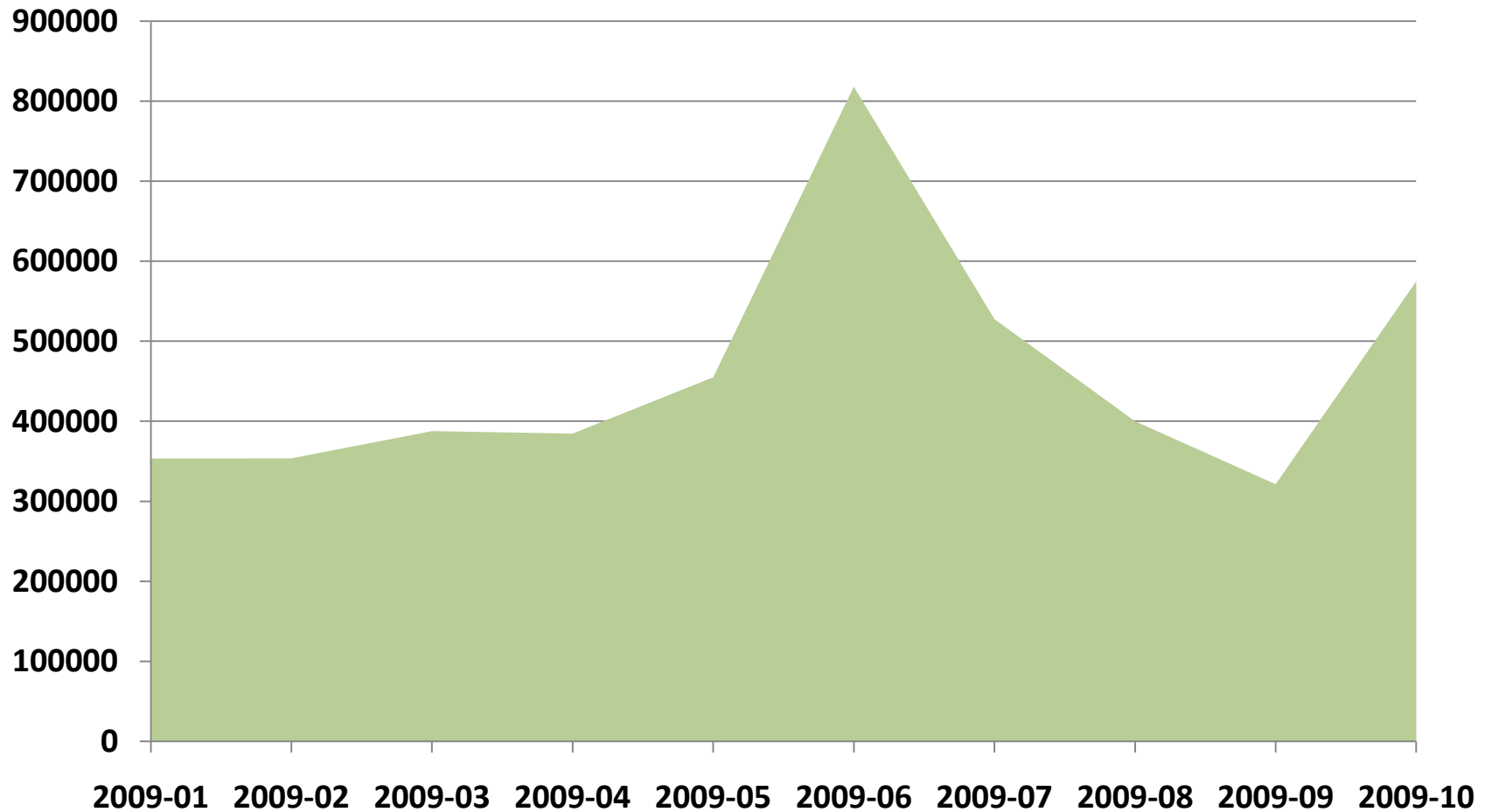


Whois Statistics- v4



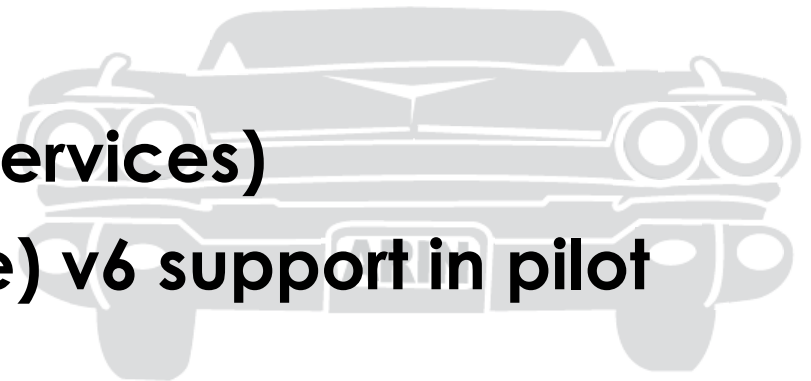
Queries from Oct 1999 to Oct 2009

Whois Statistics – v6



Development

- ARIN Online Releases
- Improvements to existing systems
- Improved Process Flows with Business Process Re-Engineering
- Resource Certification Pilot
- DNSSEC
- Whois-RWS (Restful Web Services)
- IRR (Give me better name) v6 support in pilot



ARIN Online 2.1 Release

- **POC updates performed with direct database updates**
- **POC Recovery**
- **Improvements over e-mail submitted POC templates**
 - real-time validation
 - better instructions
 - improved processing





ARIN Online 2.2 Release

- **Estimated Delivery after Thanksgiving**
- **New Functionality**
 - Resources Record Display
 - Reassignments Report
 - Associations Report



ARIN Online 2.2 - Resources



[SEARCH WHOIS](#) 
[need help?](#)

[NUMBER RESOURCES](#) | [PARTICIPATE](#) | [POLICIES](#) | [FEES & INVOICES](#) | [KNOWLEDGE](#) | [ABOUT US](#)

Welcome, Developer

MESSAGE CENTER (1)

WEB PROFILE

POC RECORDS

ORGANIZATION DATA

MANAGE RESOURCES

TRACK TICKETS

ASK ARIN

[log out](#)

MANAGE RESOURCES

Resources Associated with Org ARIN

The following number resources have been issued to this organization.

Currently, you may view Autonomous System Number records, network records and reassignment reports through your ARIN Web account. Future features will allow eligible users to modify and request number resources. Users can submit [e-mail templates](#) for number resource requests.

AS NUMBERS

The following AS Numbers have been issued to this Organization. Click the AS Handle to view details.

AS HANDLE	AS RANGE
AS10745	10745

Results 1-1 of 1

IP NETWORKS


The following IPv4 and IPv6 networks have been issued to this Organization. Click the Net Handle to view details.

Where applicable, you can also generate a reassignment report, which will be posted to your Message Center within 24 hours. The report lists all sub-delegations for the given range, as registered in ARIN's WHOIS directory service via SWIP.

NET HANDLE	NET NAME	NETWORK RANGE	REASSIGNMENTS
NET-68-169-0-0-1	ARIN-SORBS-LISTED	68.169.0.0/19 (Direct Allocation)	Request Report
NET-68-169-128-0-1	ARIN-SORBS-LISTED	68.169.128.0/18 (Direct Allocation)	Request Report
NET-68-169-224-0-1	ARIN-SORBS-LISTED	68.169.224.0/19 (Direct Allocation)	Request Report
NET-68-169-32-0-1	ARIN-SORBS-LISTED	68.169.32.0/20 (Direct Allocation)	Request Report
NET-68-169-64-0-1	ARIN-SORBS-LISTED	68.169.64.0/18 (Direct Allocation)	Request Report
NET-68-170-160-0-1	ARIN-SORBS-LISTED	68.170.160.0/20 (Direct Allocation)	Request Report

Results 51-75 of 130 <<prev 1 2 3 4 5 6 next>>

ARIN Online 2.2 - Associations



[SEARCH WHOIS](#) [need help?](#)

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MESSAGE CENTER (1)

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MANAGE RESOURCES

Number Resources

Your ARIN Web account is linked to the following Points of Contact and organizations. Select a POC Handle or Org ID to view a list of its associated resources.

NOTE: Selecting a POC Handle will display only resource records directly associated with that POC Handle. Selecting an Org ID will display only resource records directly associated with that organization.

Request a combined report of all associations.

POCS	
HANDLE	NAME
DMRDUDE-ARIN	Frank Hill
DUDE1-ARIN	Mark Kusters
DUDE3-ARIN	Andrew Newton
ARIN-HOSTMASTER	Registration Services Department
DUDE2-ARIN	Matthew Ryanczak

Results 1-5 of 5

ORG IDS	
ORG ID	NAME
ARIN	American Registry for Internet Numbers
ARINENG	Arinman

Results 1-2 of 2

ASSOCIATIONS REPORT

The Associations Report provides:

- o A list of all POCs your ARIN Web account is linked to
- o A list of all organizations those POCs are associated with
- o A list of all number resources those POCs are associated with directly or through the organization
- o The roles served by the POCs on each organization and resource (e.g. Org Admin, Resource Tech)

Within 48 hours of your request, we will e-mail the report from hostmaster@arin.net to the e-mail address listed on your ARIN Web account.

[REQUEST REPORT](#)

ARIN Online (as of 10/12/09)

- **Active accounts = 10,878** (registered and confirmed, with active status)
- **Active accounts with a profile = 9,918** (customer logged in and created a profile)
- **Confirmed POC links = 9,036**
- **POC requests = 6,346**
- **ORG requests = 3,313**
- **Overall a 2x increase over ARIN XXIII**



Agile Methodology

- **Used Waterfall method – slow release cycles**
- **Working on strengths of the organization**
- **Integration of QA within Development**
- **More frequent releases**



Quality Assurance

- **Every update working through QA**
- **Focusing on the Customer Experience**
 - Broad browser support
 - Full regression testing



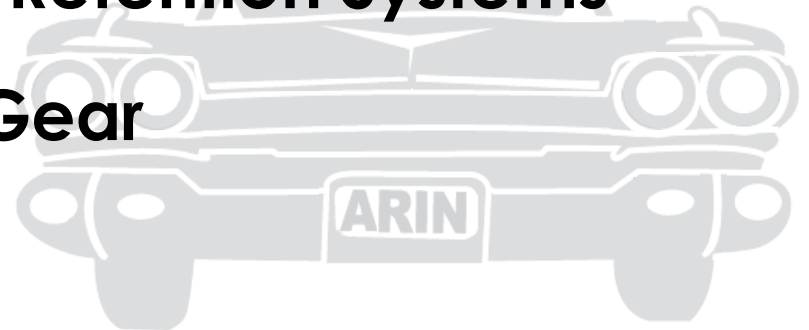
Requirements

- Testable systems
- Trying to stay faster than development



Upcoming Challenges/Research

- **Additional ARIN Online features**
- **RESCERT to be moved from pilot to production next year**
- **DNSSEC will be a phased approach**
 - Integration with ARIN Online in 2010 for signing your zones
- **Document Management/Retention Systems**
- **Replacement of Legacy Gear**
- **LISP participation**



Thank You for your Time and Attention

Questions?

