Staffing

- Operations
  - **7 operations engineers + 2 managers (AT FULL STRENGTH)**
- Development
  - **7 programmers + manager (ONE OPENING)**
    - New-hire filled vacancy by our last contractor in May
    - Recent departure of long-time employee
- Quality Assurance
  - **4 engineers, 1 contractor + manager (AT FULL STRENGTH)**
- Project Management – 1
- CTO - 1

YTD Efforts

- Improved Backoffice Processes
  - **Better integration of financial services and registration services workflows, automation of processes and invoicing**
- New Fee Schedule
- RPKI
  - **Web Delegated**
  - **Up/Down Delegated including ERX space**
- Migration from Oracle to PostgreSQL
- Oracle, EMC, and LB instability challenges (solved)
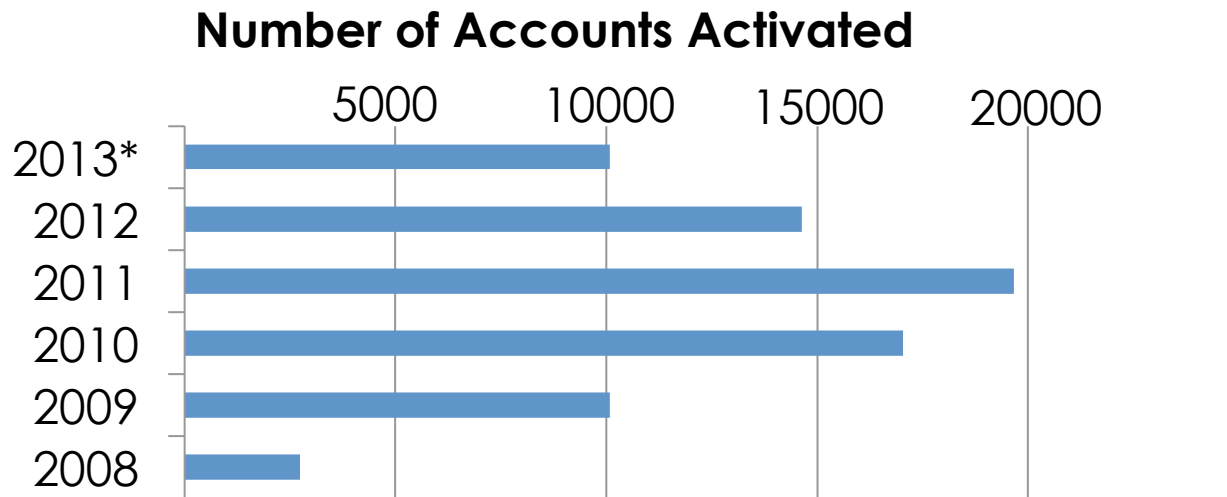
ARIN 32

YTD Efforts Cont…

- Extended Statistics
- Fault Tolerance Improvements
  - **More efficient system backups**
  - **Moving Production Systems to DR site**
- Corporate Help Desk and IT Support
- ARIN Member Meeting Support
- Care and Feeding of Servers & Network
  - **Includes new systems provisioning with Puppet and Foreman**

YTD Efforts Cont…

- 3rd Party Vendor Selections
  - **New election system, including integration with ARIN Online**
  - **Meeting Registration System**
- User Interface Usability Testing
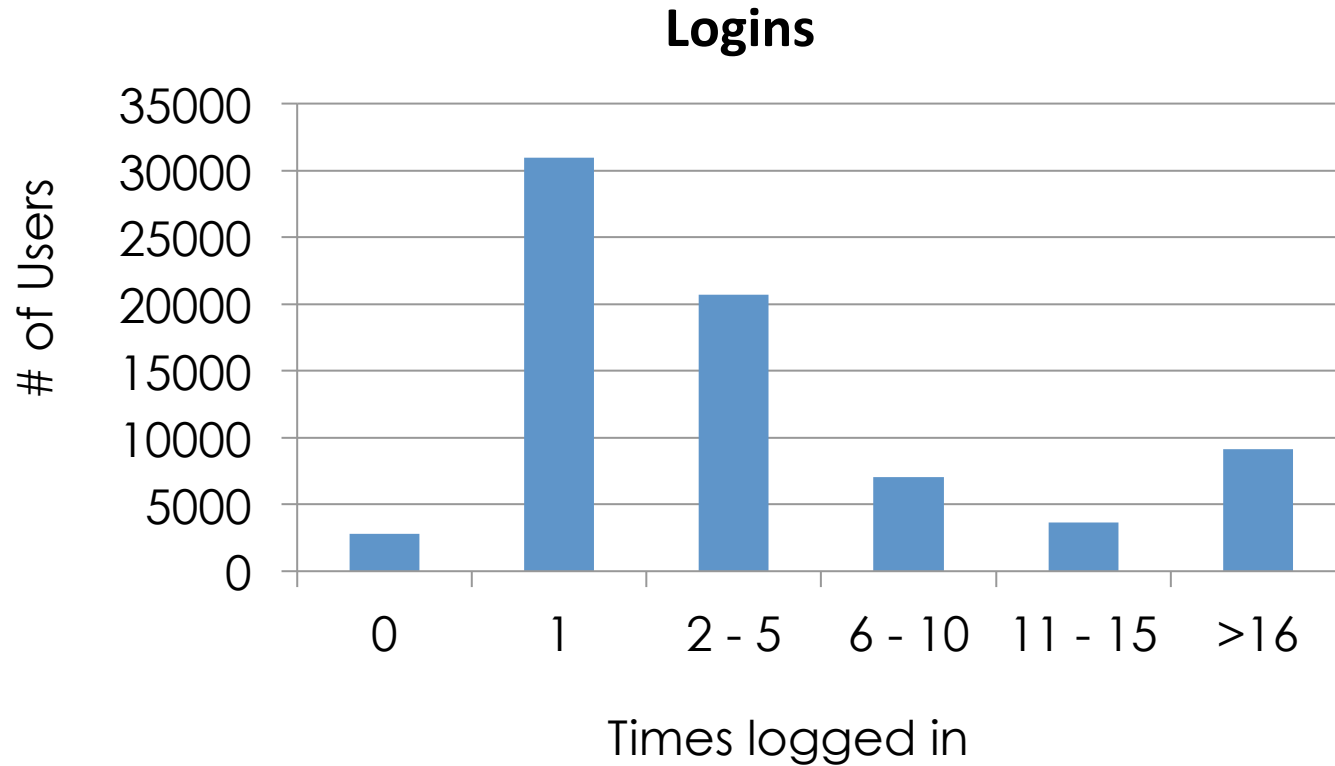- IETF Participation
  - **SIDR, RPKI GTA, WEIRDS (RDAP)**

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ARIN Online Usage

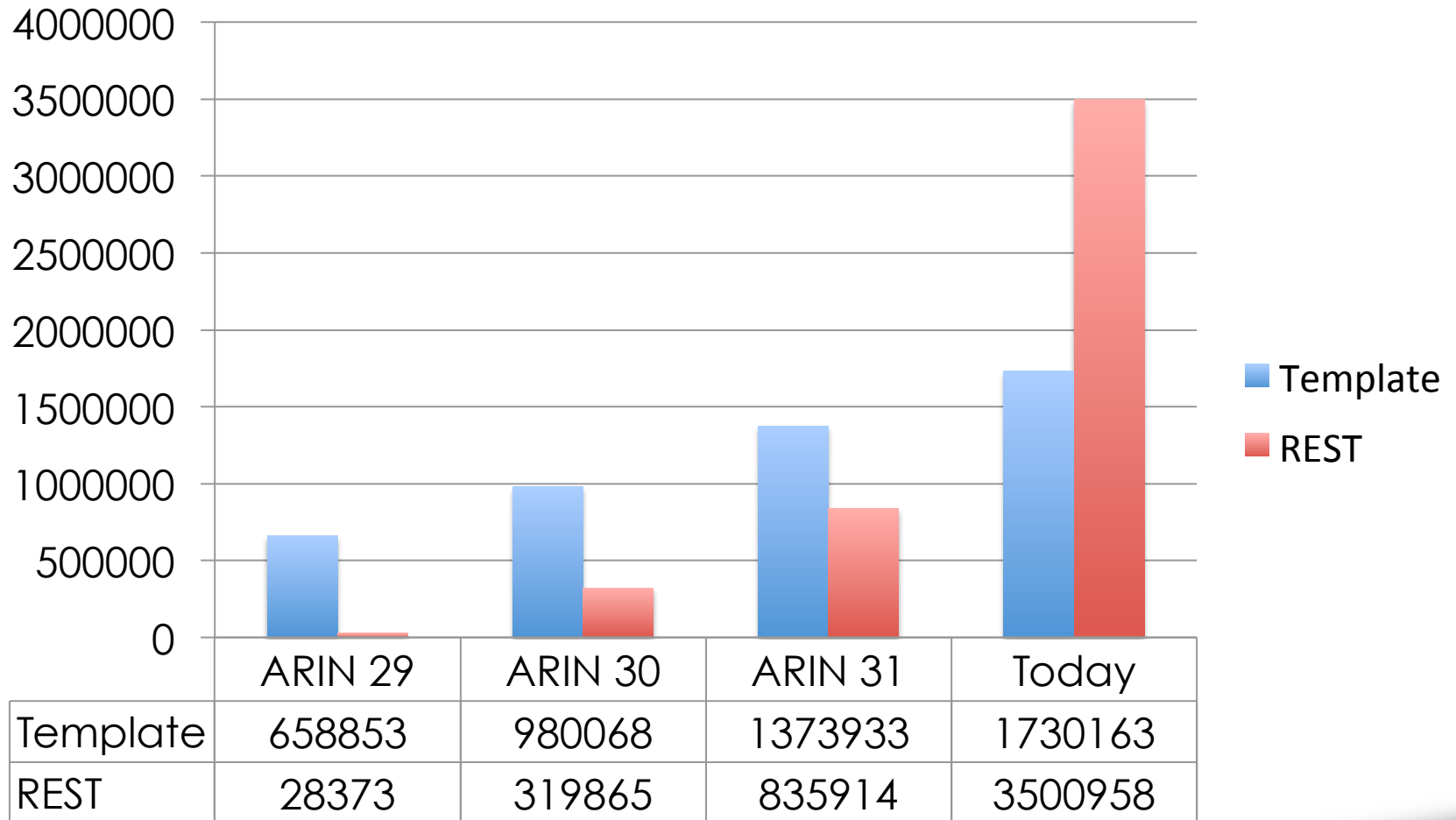- 74,172 accounts activated since inception through Q3 of 2013

Number of Accounts Activated

* Through Q3 of 2013

Active Usage of ARIN Online

Reg-RWS Transactions

	ARIN 29	ARIN 30	ARIN 31	Today
Template	658853	980068	1373933	1730163
REST	28373	319865	835914	3500958

ARIN 32

Reports

	Via REST	Via ARIN Online
Associations	13	6,876
Reassignments	14,098	31,145
WhoWas	30,385	10,831

API Keys

	API Keys	Users w/ API Keys	API Keys w/ Email
Active	7,590	6,988	3,829
Inactive	684	521	0
Total	8,274	7,127	3,829

RPKI Usage

	ARIN XXX	ARIN XXXI	ARIN XXXII
RPAs Signed	27	72	130
Certified Orgs		47	68
ROAs	19	60	106
Covered Resources	30	82	147
Web Delegated		0	0
Up/Down Delegated			0

Whois Queries Per Second
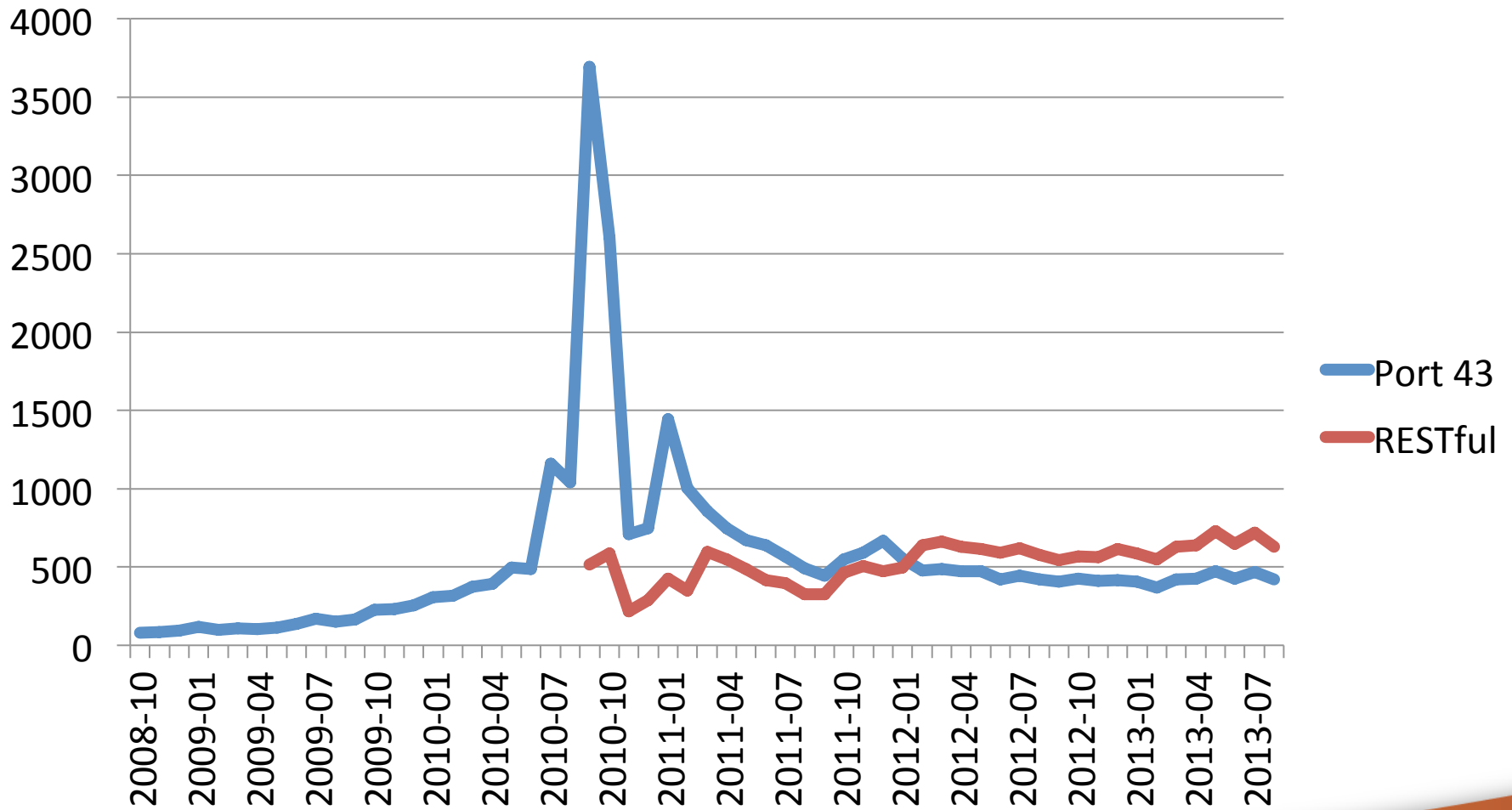
Whois via IPv6

% of Traffic
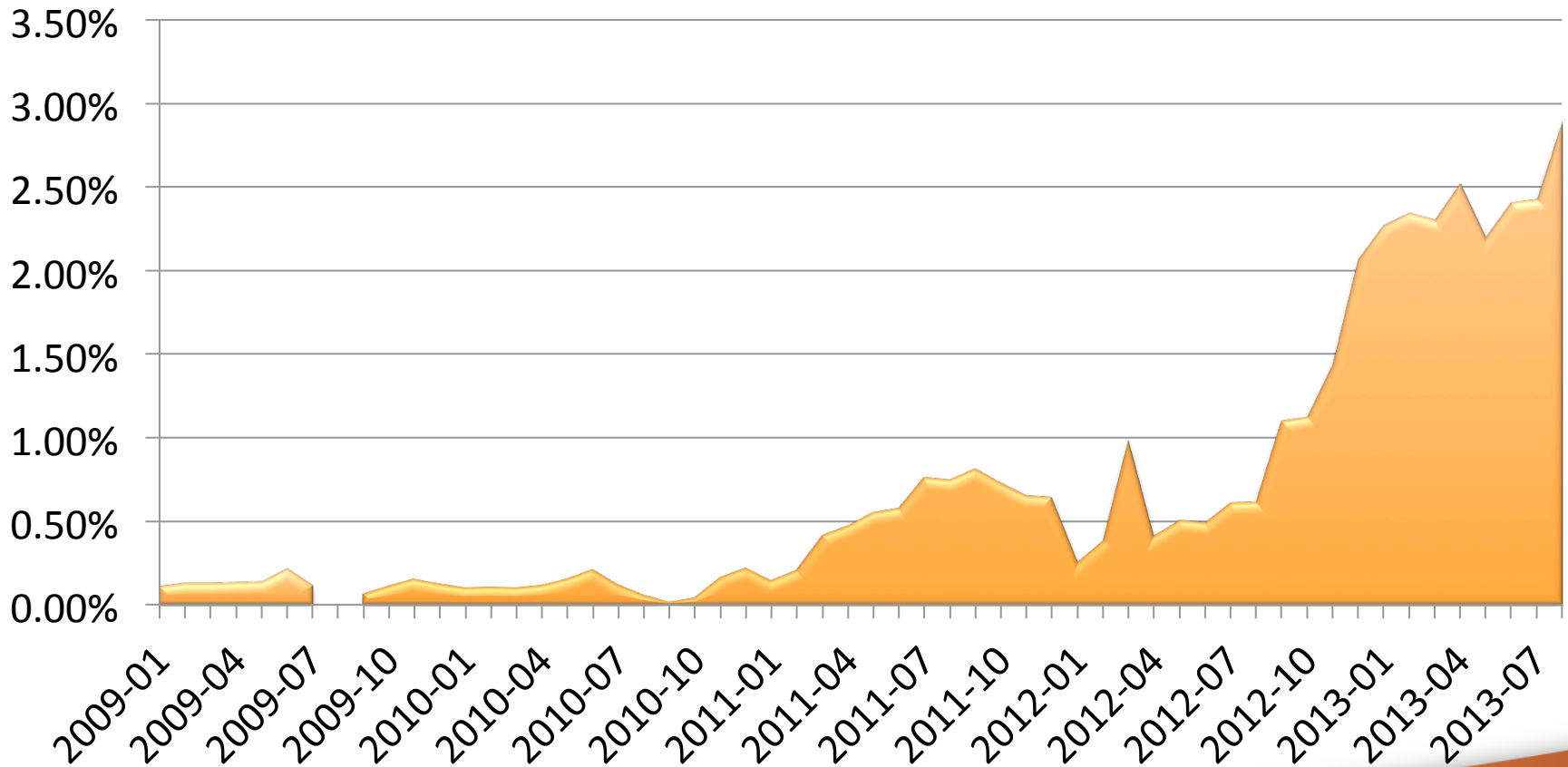
IRR Maintainers
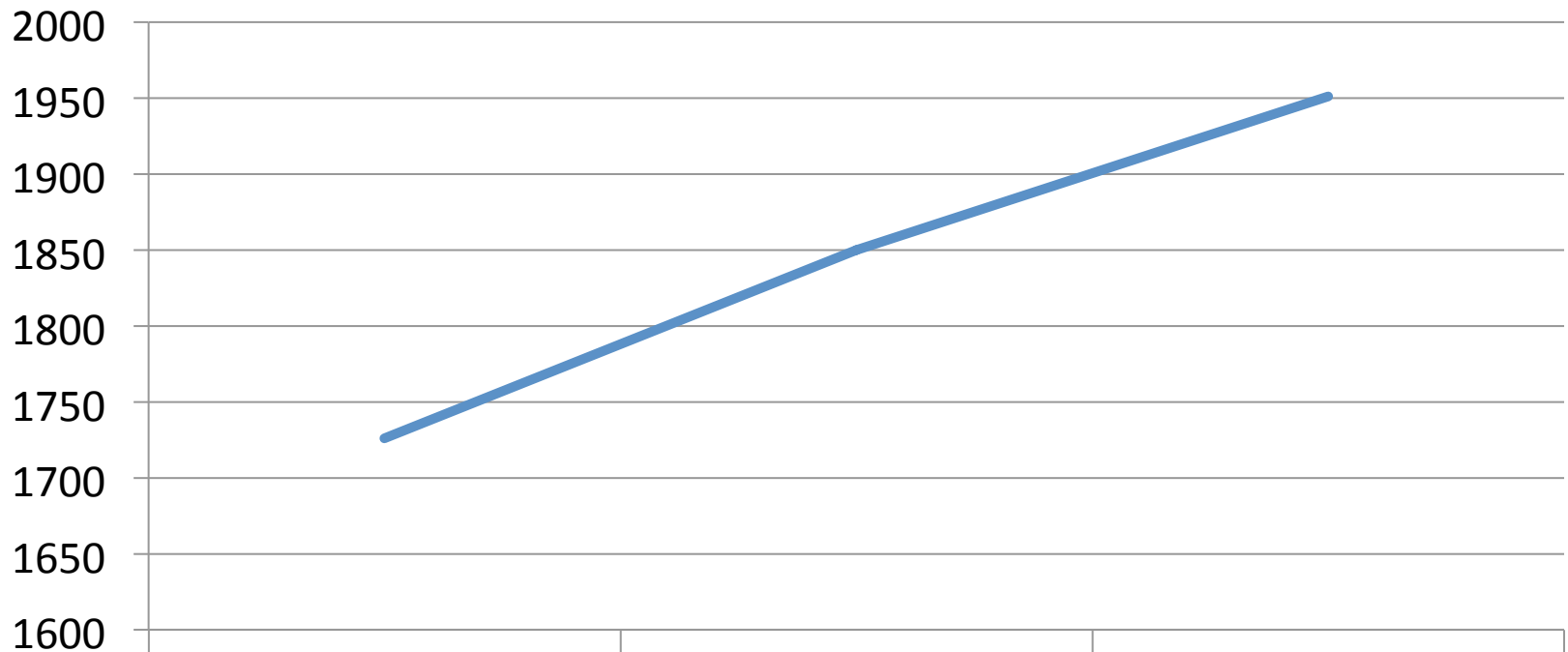
	2011	2012	2013
Maintainers	1726	1850	1951

IRR Route / Route6

	2011	2012	2013
Route	18636	19969	21204
Route6	242	527	698
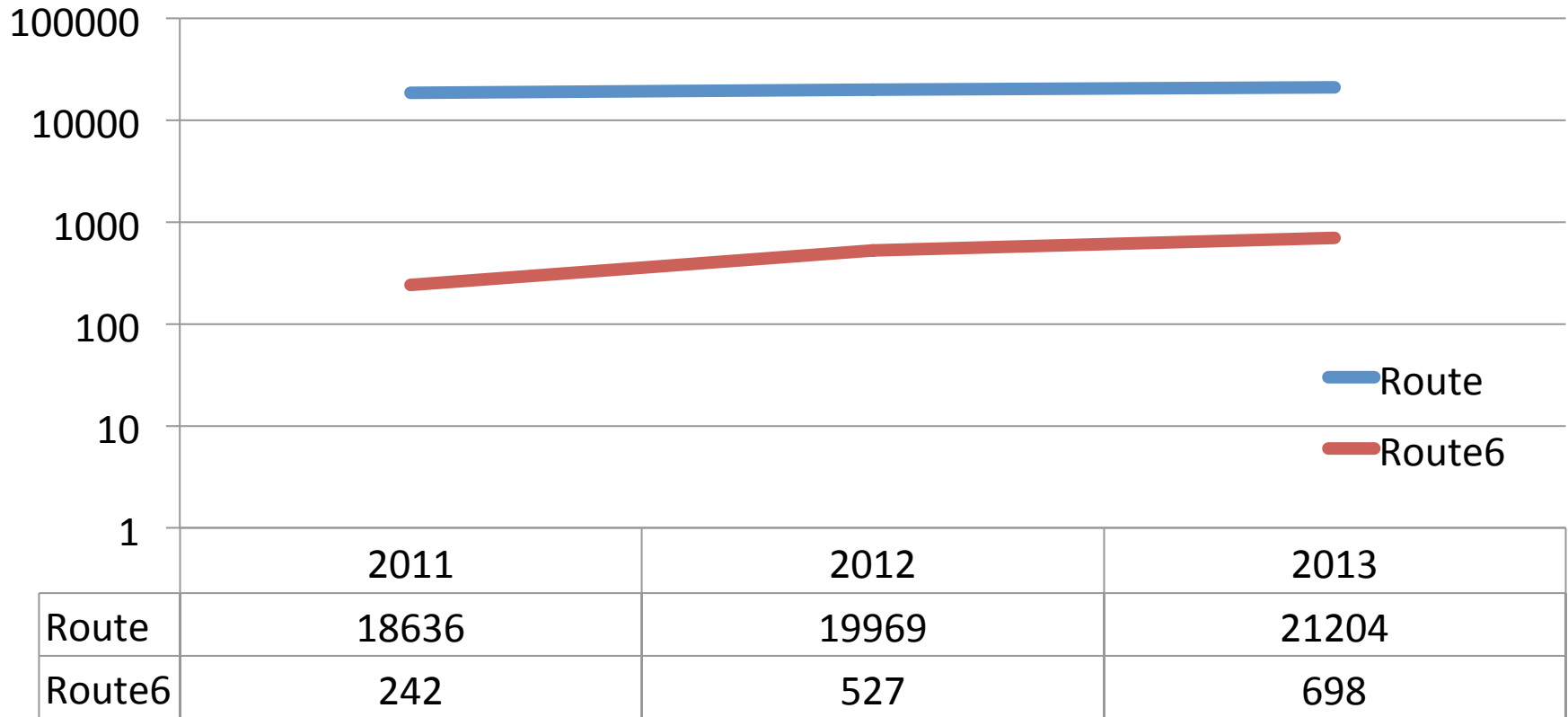
IRR InetNum / Inet6Num
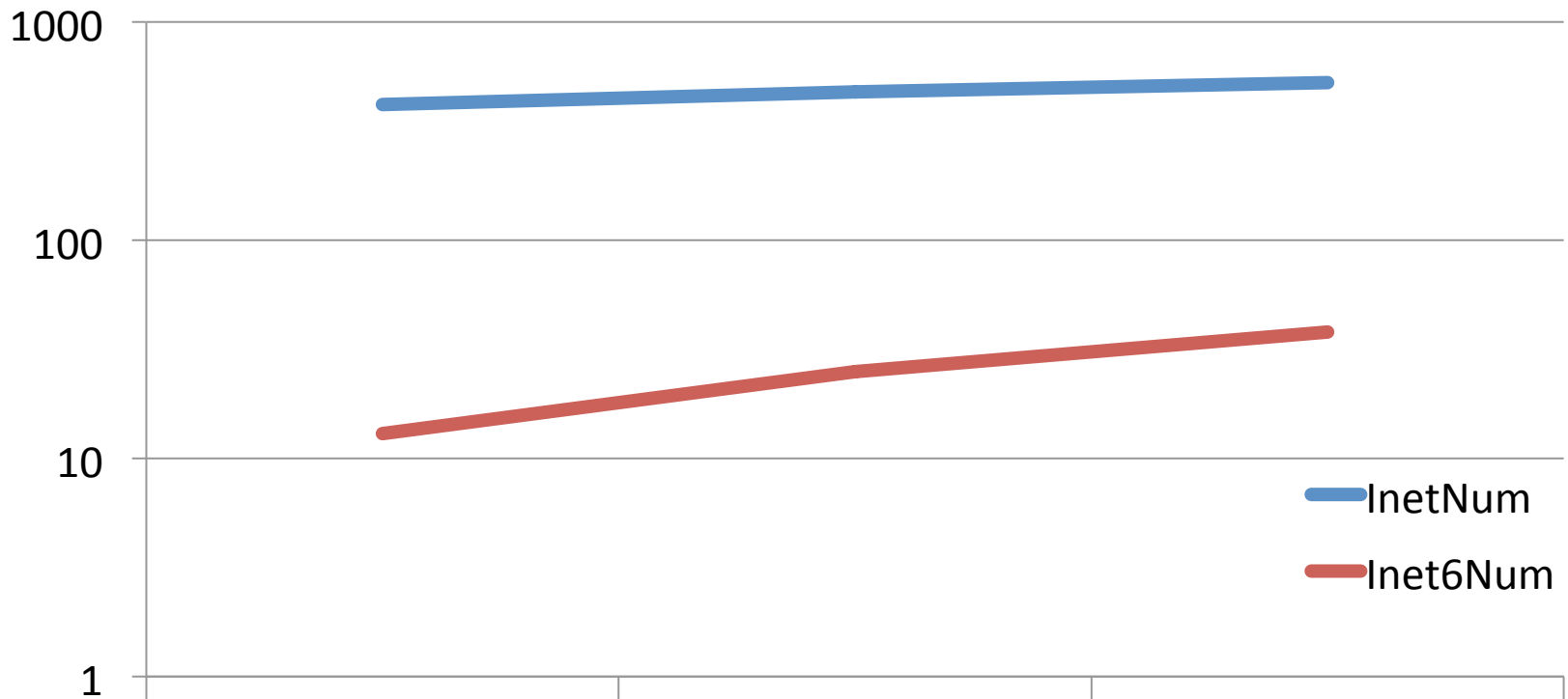
	2011	2012	2013
InetNum	419	481	531
Inet6Num	13	25	38

InetNum
Inet6Num

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ACSP 2013.8 – Two Factor Authentication

- Looking for best fit solution
  - **Offers security desired**
  - **Is not onerous**
    - Only 66 PGP & 18 X.509 Users
- Most common 2nd factor used today is email / mobile phone
  - **SMS codes vulnerable to MiTM**
  - **Most secure with mobile app and complete out of band verification**

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Interops

- RPKI
  - **Internally testing Up/Down with RPKId**
  - **Held Up/Down interop with APNIC, LACNIC, RIPE NCC, and AFRINIC at IETF 87**
  - **Up/Down now generally available**
  - **Will begin production Up/Down for ERX space with APNIC soon**
- RDAP (IETF WEIRDS)
  - **Participated in public interop with APNIC, RIPE NCC, LACNIC, Afilias, VeriSign, CNNIC at IETF 87**
  - **ARIN has open source software at http://projects.arin.net**
  - **Public testbed at http://rdappilot.arin.net/restfulwhois/rdap**
  - **Interop at IETF 88 planned**

ARIN 32

Comments?