OVERVIEW

• Operational Statistics
  • Engineering
  • Registration
• Accomplishments
• What’s Ahead
Routing Registry
Query Load

[Bar chart showing query load over time from 7/1/2007 to 3/1/2008]
<table>
<thead>
<tr>
<th></th>
<th>IRR</th>
<th>WHOIS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Routes checked</strong></td>
<td>8,078</td>
<td>40,646</td>
</tr>
<tr>
<td><strong>Origin Found</strong></td>
<td>5,277</td>
<td>36,508</td>
</tr>
<tr>
<td></td>
<td>65%</td>
<td>90%</td>
</tr>
<tr>
<td><strong>Origin Incorrect</strong></td>
<td>2,209</td>
<td>3,861</td>
</tr>
<tr>
<td></td>
<td>28%</td>
<td>9%</td>
</tr>
<tr>
<td><strong>Route Not Found</strong></td>
<td>592</td>
<td>277</td>
</tr>
<tr>
<td></td>
<td>7%</td>
<td>1%</td>
</tr>
</tbody>
</table>
LEGACY RSA STATS

REQUESTS

127 requests
- 78 Signed
- 39 Pending
- 10 Not Required

STATUS

127 requests
- 81 via Web App
- 46 via Transfer Requests
4-byte ASNs*

126 requests
108 changed to 2-byte requests
18 issued
  • 12 exchanged for a 2-byte ASN
  • 6 currently registered

*policy implemented 1/1/07
4-byte AS Numbers Issued by RIRs per FTP Stats

- ARIN: 6
- AfriNIC: 4
- APNIC: 11
- LACNIC: 1
- RIPE NCC: 15
Profile of IPv4 Addresses Issued to Organizations: 2006 & 2007 New Registrations

- 24 Extra-large organizations (83.11%) - Issued space totalling more than a /14.
- 58 Large organizations (6.75%) - Issued space totalling at least a /16 but less than a /14.
- 1088 Small organizations (9%) - Issued space totalling at least a /20 but less than a /16.
- 823 Extra-small organizations (1.14%) - Issued space totalling less than a /20.
2006 & 2007 Issuing Stats:
Breakdown by CIDR Prefix

Size of IPv4 Address Block issued

# of Times Issued—1207

297 /20
366 /21
627 /22
2 /24+
12 /24
IPv6

- '05-'06: 110 requests, 58 approvals (52%)
- '06-'07: 131 requests, 94 approvals (72%)
- '07-'08: 290 requests, 239 approvals (82%)
ACCOMPLISHMENTS

• Moving away from Templates
ACCOMPLISHMENTS

Resource Certification
• Placing trust data on network resources
• Can be used to bootstrap secure route validation

Good sites
• Documentation
  • http://mirin.apnic.net/resourcecerts/wiki/index.php/Main_Page
• ISC (funded by ARIN) subversion reference at:
  • http://subvert-rpki.hactm.net/
ACCOMPLISHMENTS

• Big Push for people to look at IPv6
• Did the IPv6 experiment thing
• Had nearly 100% participation
WHAT’S AHEAD

Look to see Project X and Resource Certification coming soon
thank you