

ARIN IPv6 Survey

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Overview

- * Survey Purpose
- * Survey Description
- * Questions Asked and Answer Summary
- * Future Surveys

Survey Purpose

- * Community interested in IPv6 deployment experiences
- * Determine needs of ARIN membership

Survey Description

- * Survey e-mailed to point of contact for /35 and /32 registrants
- * Survey began in January 2003
- * ARIN committed to:
 - ▶ Not disclose company name of participants
 - ▶ Not disclose vendor names mentioned in survey
- * 35 survey forms were distributed, 10 were completed and returned to ARIN (29%)

Survey Questions

- * Questions focused on
 - ▶ Implementation experiences
 - ▶ Customer demand
- * 10 questions included in survey

* Question 1:

- ▶ Have you implemented your IPv6 network yet? If not, do you have a planned date for implementation?

* Response Summary:

- ▶ Yes (6)
- ▶ No (4)
 - ▶ Two responded they are only in experimental phase
 - ▶ All (4) plan to implement by end of year 2003

* Question 2:

- ▶ How are you using your IPv6 allocation?

* Response Summary:

- ▶ To number backbone network in anticipation of customer demand
- ▶ Experimenting with other IPv6 networks to prepare for roll-out of service to customers
- ▶ Research and testing in anticipation of customer demand

* Question 3:

- ▶ Do you peer with other IPv6 networks?
If so, how many peers do you have?

* Response Summary:

- ▶ (6) responded positively – responses identified 1 to 40 peers
- ▶ (4) stated they are not currently peering with anyone (IPv6 network not yet deployed)

* Question 4:

- ▶ What IPv6 network services are you currently able to provide to your customers?

* Response Summary:

- ▶ Native transit for co-located customers
- ▶ Tunnel connections
- ▶ DNS
- ▶ Native transit in major markets and tunnel connections in smaller markets
- ▶ Hosting services

* Question 5:

- ▶ Do you have IPv4 -to- IPv6 transitional mechanisms in place?

* Response Summary:

- ▶ All responded “no” to this question

* Question 6:

- ▶ Have you made assignments to customers from your allocation? If so, how many and what size?

* Response Summary:

- ▶ (4) responded that they have
- ▶ /48s and /64s are being assigned

* Question 7:

- ▶ Have any of your customers requested more than one IPv6 assignment?

* Response Summary:

- ▶ Most responded “no”
 - ▶ One stated they could not imagine a customer ever needing more than a /48
- ▶ One responded “yes”

* Question 8:

- ▶ Are you seeing a demand for IPv6 services from your customers?

* Response Summary:

- ▶ Some said yes – Some quotes:
 - ▶ “Interest from many, demand from only a handful”
 - ▶ “Occasionally. Not a highly pressing demand yet.”
 - ▶ “Not substantially”
 - ▶ “No, not really.”
 - ▶ “Yes. Mostly from customers in Asia.”

* Question 9:

- ▶ Are there any notable barriers that have prevented the deployment of your IPv6 network or services?

* Response Summary:

- ▶ Some quotes:
 - ▶ “Headcount and capital, it's a low priority project.”
 - ▶ “Customer demand.”
 - ▶ “There has been a general lack of interest from our members. This may be because it's missing the killer app or reason to migrate.”
 - ▶ “Engineering knowledge of v6, (which is weak), NOC knowledge of v6, (which may even be nonexistent.)”

* Question 10:

- ▶ Are there any experiences that you would like to share with other ISPs and members of the community that may help them deploy their own IPv6 network?

* Response Summary:

- ▶ Most responded they are not ready to do this at this time

Future Surveys

- * New survey planned for August 2003
 - ▶ Desire to keep the survey short
 - ▶ Coordination with other RIR IPv6 surveys
 - ▶ Results to be reported at ARIN XII in October

- * Do you have any suggestions for the survey?
Suggestions may be sent to v6@arin.net

Thank You