Cisco IPv6 Higher Education Online Survey Report

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Objectives and Methodology

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- In an effort to uncover the opinions of IT decision makers and influencers in higher education regarding IPv6, 190 online surveys were completed from February – April 2010, following a series of Cisco sponsored IPv6 Higher Education webinars.
- As an incentive to complete the survey, respondents were offered the option to be entered into a drawing for one of three Flip Cameras.
- Respondents were screened to ensure that they were employed by a higher education institution, involved in the implementation of IT and network solutions for their institution, and had some involvement in IPv6 decision making.

Demographics and Classifications

Institution Type

- Respondents from a variety of institution types attended the Cisco IPv6 webinars and responded to the follow-up survey.
- For comparison purposes, institution types were collapsed into two groupings:
 - 4-Year (77%) or 2-Year and Professional schools (23%)
 - Public (63%) or Private and Professional schools (37%)



Q: Which of the following best describes your employer?

Role in Institution

- Nearly three-quarters (73%) of respondents classify themselves as working directly in an IT capacity.
- One-quarter (27%) of respondents are involved in IT functions at their institution, while holding a business operations title.



Q: Which of the following best describes your role in your institution?

Involvement in IT and IPv6 Decisions

- All respondents were screened to ensure involvement in both IT and IPv6.
- Two-thirds of respondents report being very involved in IPv6 at their institution.
- Those who make final IT decisions often play multiple roles in the solutions implementation process. Evaluators and Recommenders are referred to collectively as Influencers.
 - Decision Makers comprise 29% of the respondents;
 - Influencers comprise 71%.



IT Involvement

Q: Please indicate the scope of your involvement in the implementation of information technology (IT) and network solutions for your institution? Q: How involved are you in the planning or implementation of IPv6 within your institution? (1= Not at all involved; 5= Very involved)



Level of Concern: Availability of IP Addresses

Less than half (40%) of respondents are concerned about the availability of IP addresses.



Q: How concerned are you with the availability of IP addresses going forward? (1 = Not concerned at all, 5 = Very concerned) (Concerned = 4 or a 5; Neutral = 3; Not Concerned = 1 or a 2)

Anticipated Impact of IPv6 on IT Issues

- Overall, respondents believe that IPv6 will have the most significant impact on expanding network capability and scalability, interoperability, and network management.
 - Those working at two-year institutions are significantly more likely to believe that IPv6 will have an impact on interoperability than those working at four-year institutions.
- Around 15% of respondents are unsure as to how IPv6 will impact all but the most directly network related IT functions.



Q: How do you believe implementing IPv6 will affect the following?

IPv6 Transition

IPv6 Conversion Milestones

- Nearly three-quarters of respondents reported not having begun the IPv6 transition or enablement stages of IPv6 conversion.
 - Of all respondents, only one reported having completed the IPv6 conversion process.
- Private and Professional schools are significantly more likely than their Public school counterparts to have not begun nearly half of the stages of IPv6 conversion.



Note: Sums of percentages may not equal 100% due to rounding.

Q: Please indicate if you have completed, are in progress, or have started working toward the following milestones for IPv6 conversion.

Expected Timeline for IPv6 Implementation

- Two-thirds of respondents (67%) report being unsure as to when their institutions will be completing IPv6 implementation.
- Just over a quarter of respondents (28%) expect to complete IPv6 conversion within the upcoming academic year.



Note: Sums of percentages may not equal 100% due to rounding.

Q: When do you expect to complete your IPv6 planning and implementation process?

IPv6 Planned Application Enablement

- Respondents report plans to IPv6 enable the most directly networkrelated applications more frequently than those applications less directly tied to an institution's networking infrastructure.
 - Email, Content/Web applications, Video/Multimedia distribution, Unified Communications and Virtualized server environments are at the top of the list for planned conversion.
- Seventeen percent of respondents reported not planning to IPv6 enable any of the listed applications.

% of Respondents Planning to IPv6 Enable Application



Challenges to Implementing IPv6

- Other projects getting higher priority is the most challenging aspect of IPv6 planning and implementation for respondents, followed by adapting the applications and services to support IPv6 transition.
- Funding/budget ranks third and lack of experienced institution staff ranks fourth among challenges.



Q: How challenging are, or were, the following factors in your IPv6 planning and implementation? (1= Not at all challenging, 5=Extremely challenging)

Vendor Outsourcing

Institutional Approach to IPv6 Enablement

- Just over a quarter of respondents (27%) plan to engage with a vendor or contractor for help in developing an implementation solution.
- Only 2% of respondents plan to outsource the entire IPv6 implementation.
- Over a quarter of respondents (28%) are unsure of how their institution will be handling its IPv6 conversion.



Q: Which of the following statements best describes how you are planning to address, or are already addressing, the implementation of IPv6 within your institution?

Preferred Assistance for IPv6 Implementation

- Three-quarters of respondents (74% each) believe that a solution provider could assist them in the earlier phases of IPv6 conversion, specifically with technical recommendations or assistance during the planning stage and technical support during implementation.
- Only 7% of respondents indicate that a solution provider could not assist in their institution's IPv6 conversion process.



Note: Multiple responses were allowed.

Q: In what ways could an industry solution provider assist you in your IPv6 planning and implementation?

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