



**Expert Team on Telecommunications  
Infrastructure (ET-CTS)  
Brasilia, Brazil 18-21 March 2014**

**ET-CTS/2014-Doc[4]  
Agenda Item [3.1.2.2]  
08.III.2014**

**Submitted by: Rémy Giraud (Météo-France)**

## **Results of the IPv6 Survey**

### **1. THE PURPOSE OF THE SURVEY**

During the previous session of ET-CTS in 2012, the participants agreed on organising a survey, to be repeated each year, to assess the readiness of the WMO Members toward IPv6 and help the team in preparing the relevant actions to raise the awareness on the matter. The section 4 is a copy of the questionnaire as available on SurveyMonkey at <https://www.surveymonkey.net/s/WMOIPv6>

The survey was launched early 2013 and within the first 2 months of publications, 62 answers were received. After removing bogus answers, duplicate answers from the same person or duplicate answers for two persons from the same organisation, 49 answers were considered as valid. The section 5 presents a statistical analysis of the answers.

### **2. A BRIEF SUMMARY OF THE SURVEY**

Question 4 was about the Regional Association from the respondents. RA VI represents more than 50% of the answers. Unfortunately, RA I has only one answer. When looking at one of the key benefit of IPv6, the unlimited availability of IP addresses, this should interest the regions where IPv4 addresses are difficult to obtain and Africa is among those. The good thing is that RA II represent 22% of the answers, Asia is another region where IPv6 is required.

For the next round of the questionnaire, we should aim in having more responses from Regional Association I.

For all questions related to the awareness and knowledge around IPv6 (e.g. Q10 and Q11), approximately 70% of the answers shows either Basic or No knowledge at all on IPv6. This numbers would be a good indicator on the progress around the adoption of IPv6.

For questions related to the networking aspects of IPv6 (eg Q13 or Q14), approximately 50% of the answers shows that the networking side is quite ready to support IPv6. The numbers are much lower when it comes to applications. In Q15, for example, 90% of the answers show that the application side hasn't been considered yet. The lack of readiness for the

applications is for both “network centric” application (DNS, NTP, DHCP) and business related application.

Question 22, related to the external constraints for the adoption of IPv6 (eg. Governmental decision), shows that it is the case for almost 1/3 of the countries. Despite this, the questions about the timeline and implementation projects related to IPv6 show that between 80% and 90% of the respondents haven’t such actions in place.

For all questions related to security, a majority indicates that they are aware of the security challenges related to IPv6 but haven’t yet considered the policy aspects. It must be noted, that is the free text response at the end of the questionnaire, many asked for security related training and for security to be addressed as part of a dedicated WMO event.

### 3. RECOMMENDED TEXT FOR THE REPORT

The meeting noted the results of the questionnaire and considered that it provided a very useful source of information. As planned the questionnaire should be reissued and a particular focus should be given to Regional Associations that would most benefit of the adoption of IPv6. The questionnaire also shows that IPv6 isn’t in the priority of many and even if a majority plans to use IPv6 in the future, there is in general neither definite timeline nor project in place.

#### 4. LIST OF THE QUESTIONS FROM THE SURVEY

# WMO IPv6 questionnaire

## WMO IPv6 questionnaire

In order to know what is the situation regarding the awareness and the adoption of IPv6, this questionnaire has been prepared.

We plan to collect answers on a yearly basis to establish if and how, in the coming years, IPv6 will be more widespread among WMO members.

### 1. Please enter your name.

### 2. Please enter the name of your organisation.

### 3. Please enter your country name.

### 4. Please enter the WMO Regional Association of your country

- ☐ I
- ☐ II
- ☐ III
- ☐ IV
- ☐ V
- ☐ VI

## IPv6 Awareness

**5. Is your organisation aware that IPv6 is becoming the new addressing scheme for IP based applications worldwide?**

- ☐ Yes
- ☐ No

**6. How closely is your organisation monitoring the development and growing implementation of IPv6 addresses?**

- ☐ Regularly
- ☐ Occasionally
- ☐ Rarely
- ☐ Not at all

## IPv6 Knowledge

### 7. Rate your organisation's overall IPv6 knowledge.

- ☐ Expert
- ☐ Advanced
- ☐ Basic
- ☐ None

### 8. How familiar is your organisation with the concept of IPv6 addresses (link local, unique local, global, anycast, multicast)?

- ☐ Expert
- ☐ Advanced
- ☐ Basic
- ☐ Not at all

### 9. What percentage of IT staff in your organisation have attended informational workshops or IPv6 training sessions already?

- ☐ Less than 10%
- ☐ Between 10% and 25%
- ☐ Between 25 and 50%
- ☐ More than 50%

### 10. How familiar is your organisation with IPv6 routing protocols?

- ☐ Expert
- ☐ Advanced
- ☐ Basic
- ☐ Not at all

### 11. How familiar is your organisation with the security concepts of IPv6?

- ☐ Expert
- ☐ Advanced
- ☐ Basic
- ☐ Not at all

## IPv6 Planning

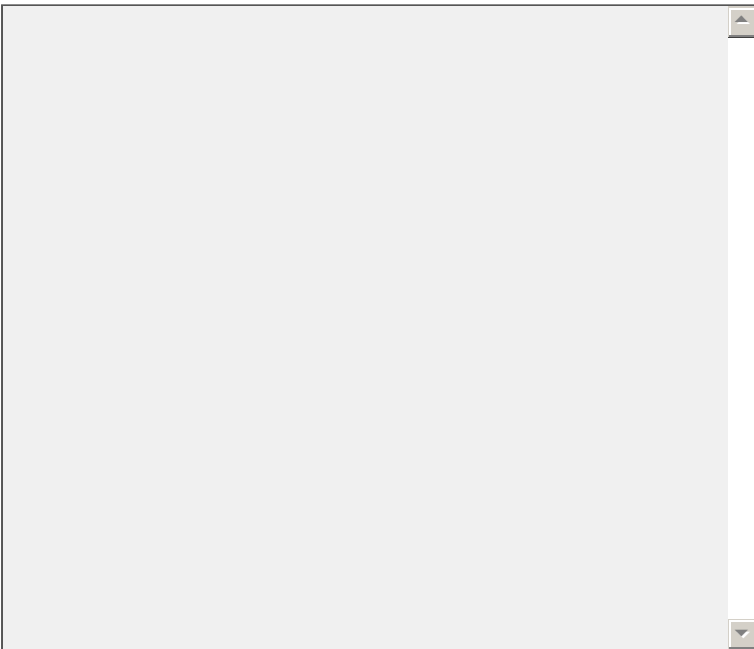
**12. Is your organisation planning to gradually implement IPv6 in its network?**

- ☐ Yes
- ☐ No
- ☐ Don't know

**13. Does your organisation have a plan about where in its network it wants to implement IPv6 (core, edge, DMZ, Internet, ...)?**

- ☐ Yes
- ☐ No
- ☐ Don't know

Please add some additional information

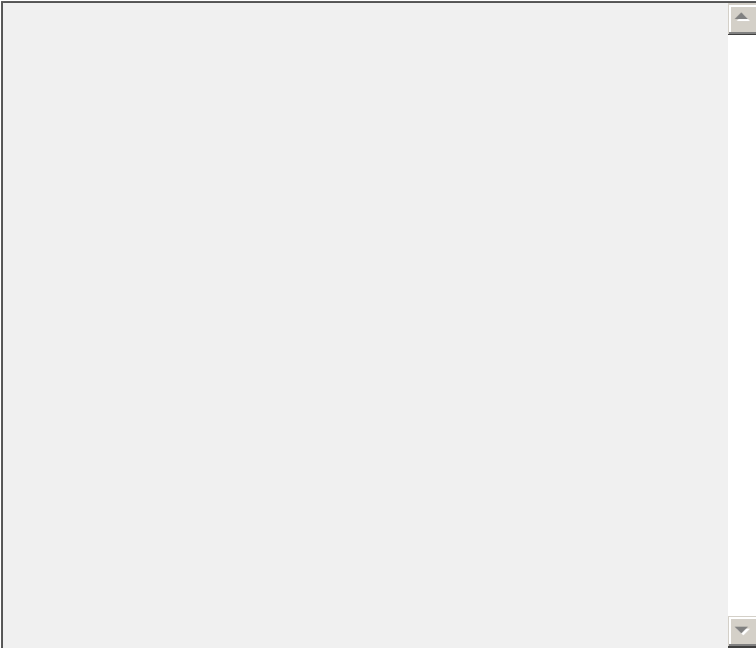


## WMO IPv6 questionnaire

**14. Does your organisation have a list of network devices that will be affected when implementing IPv6 in its network?**

- ☐ Yes
- ☐ No
- ☐ Don't know

Please add some additional information

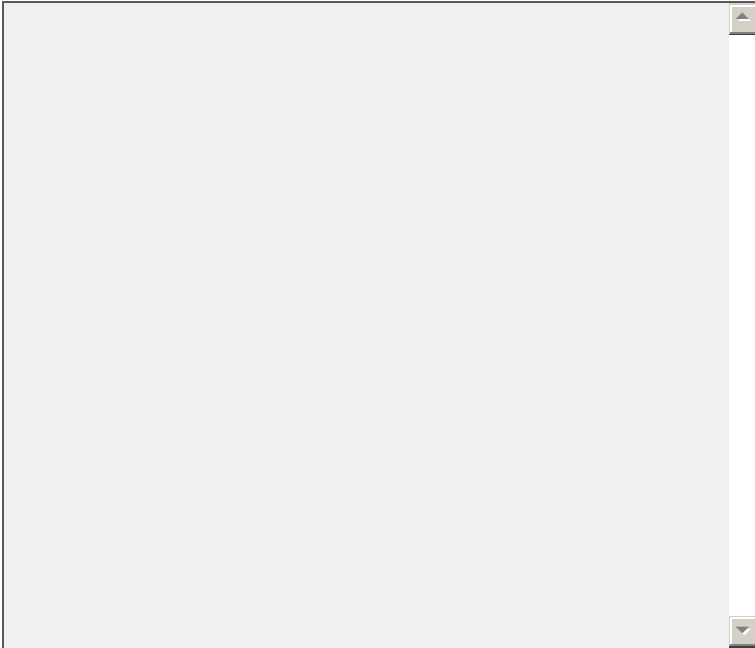




**15. Does your organisation have a list of software applications which will be using IPv6?**

- ☐ Yes
- ☐ No
- ☐ Don't know

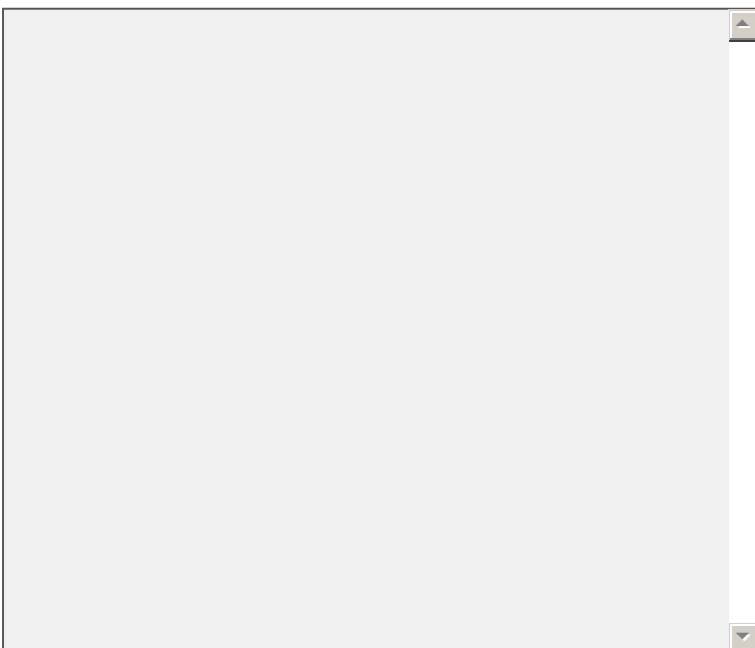
Please add some additional information



**16. Does your organisation have a timeline for implementing IPv6 in your network?**

- ☐ Yes
- ☐ No

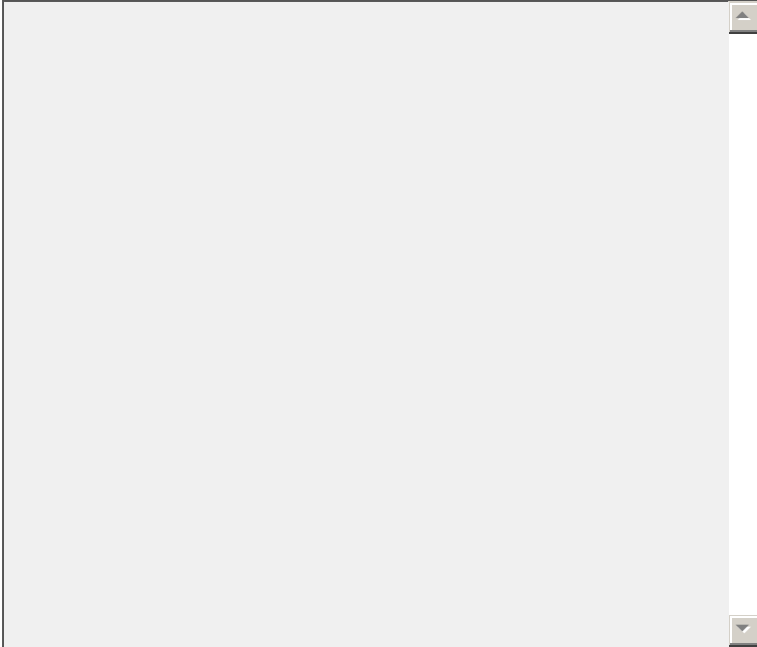
Please add some additional information



### 17. Does your organisation have a timeline for setting up IPv6 applications?

- ☐ Yes
- ☐ No

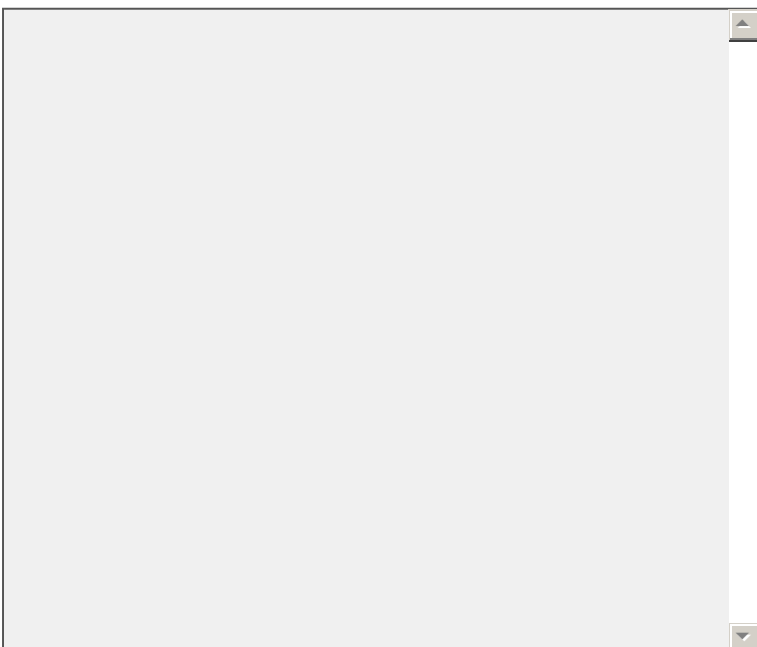
Please add some additional information



### 18. Has your organisation decided which IP stack it will be using during the transition to IPv6 (dual stack, tunnel, translation)?

- ☐ Yes
- ☐ No
- ☐ Don't know

Please add some additional information

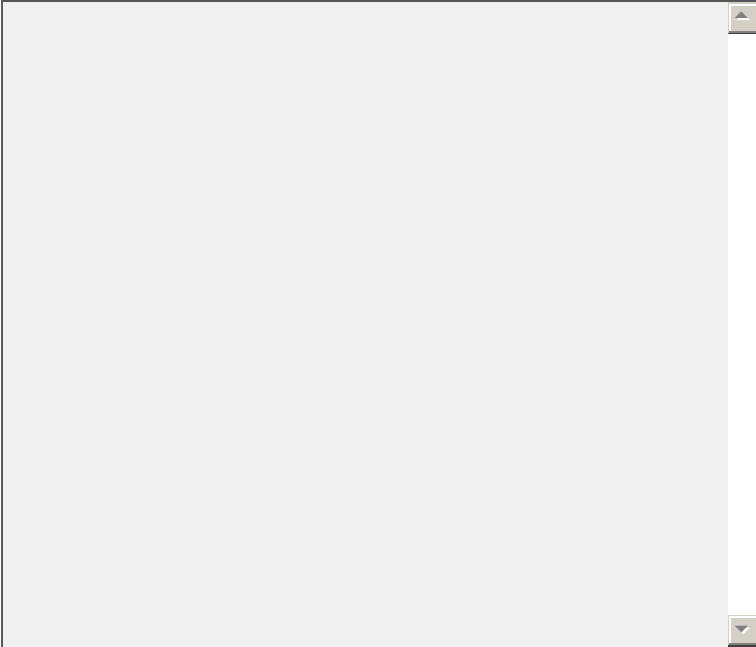


## WMO IPv6 questionnaire

### 19. Will your organisation be using an IPv6 routing protocol?

- ☐ Yes
- ☐ No
- ☐ Don't know

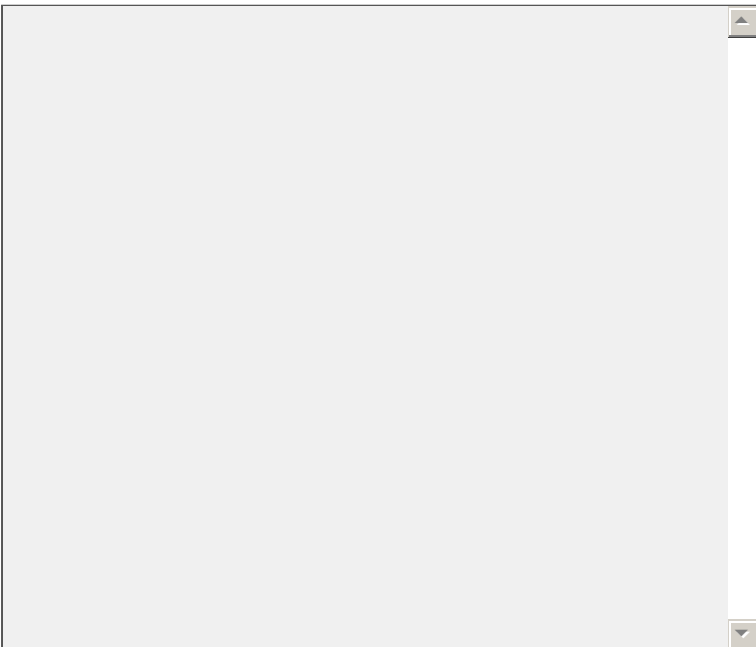
Please note which protocol(s)

A large, empty text area with a light gray background and a thin black border. It has a vertical scrollbar on the right side, indicating it can scroll. The area is intended for the user to list any IPv6 routing protocols their organization plans to use.

### 20. Does your organisation have a dedicated team for the IPv6 activities?

- ☐ Yes
- ☐ No

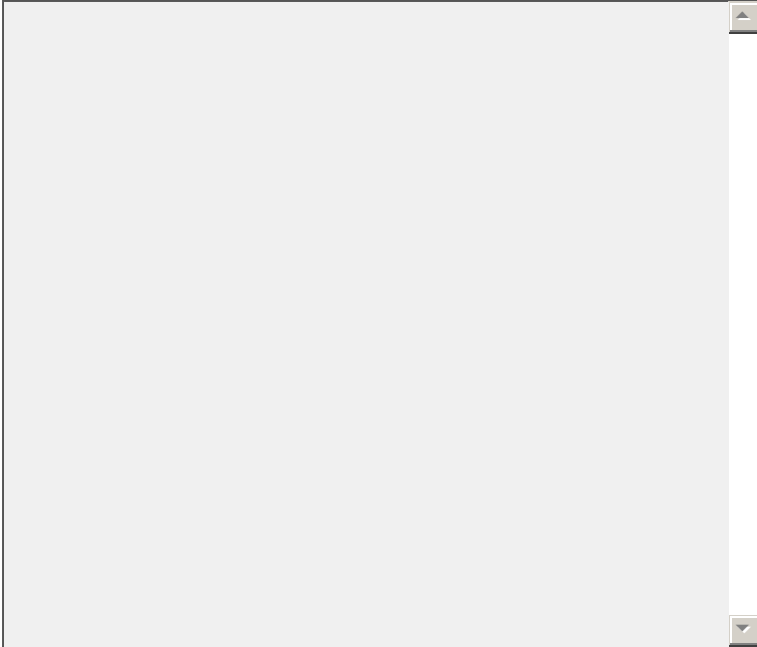
Please add some additional information

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### 21. Has your organisation developed an IPv6 training strategy and plan?

- ☐ Yes
- ☐ No

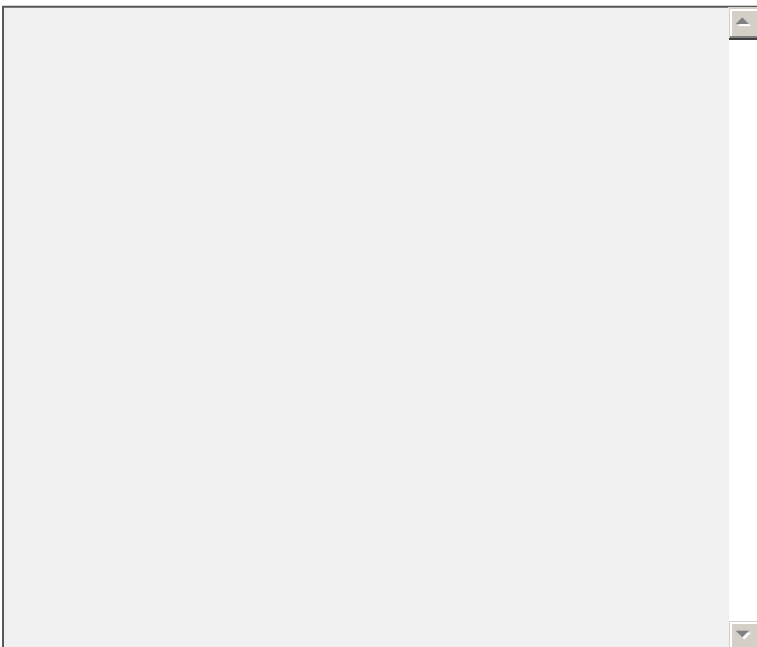
Please add some additional information



### 22. Are there external conditions that require the transition to IPv6 (Governmental decision...) in your organisation?

- ☐ Yes
- ☐ No
- ☐ Don't know

Please add some additional information



## IPv6 Readiness

**23. What percentage of the network equipment installed at your organisation that will be affected by the transition to IPv6 support that protocol?**

- ☐ Don't know
- ☐ Less than 10%
- ☐ Between 10% and 25%
- ☐ Between 25% and 50%
- ☐ More than 50% but not all of them
- ☐ 100%

**24. What percentage of your organisation's software support IPv6, especially those which are needed to support WIS?**

- ☐ Don't know
- ☐ Less than 10%
- ☐ Between 10% and 25%
- ☐ Between 25% and 50%
- ☐ More than 50% but not all of them
- ☐ 100%

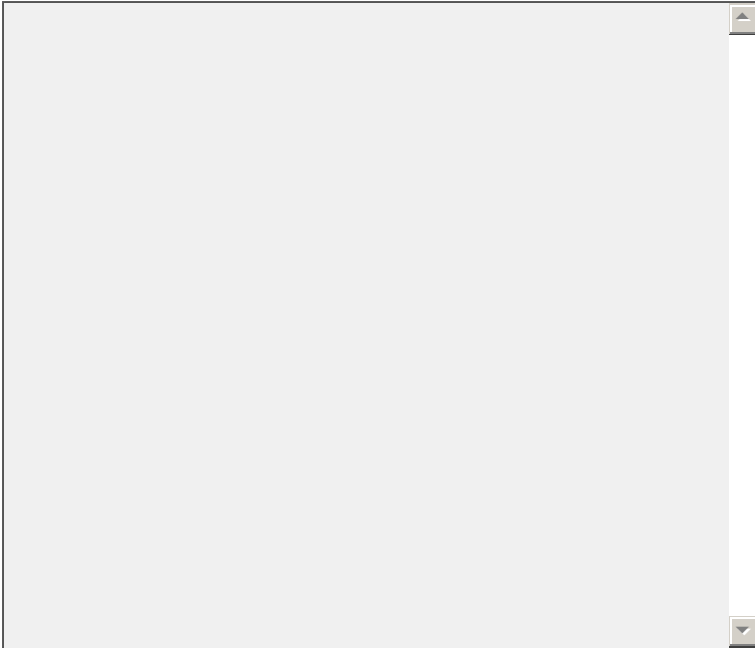
**25. If either your network or your applications are not fully ready for IPv6, does your organisation have a plan and a budget for the required equipment/features?**

- ☐ Yes
- ☐ No
- ☐ Don't know

### 26. Are your organisation's network providers able to offer IPv6 connectivity to your site?

- ☐ Yes, I have asked, it is possible
- ☐ I have asked, but it is not possible
- ☐ We haven't asked yet

Comments



### 27. Has your organisation already decided what kind of IPv6 addresses it is going to use?

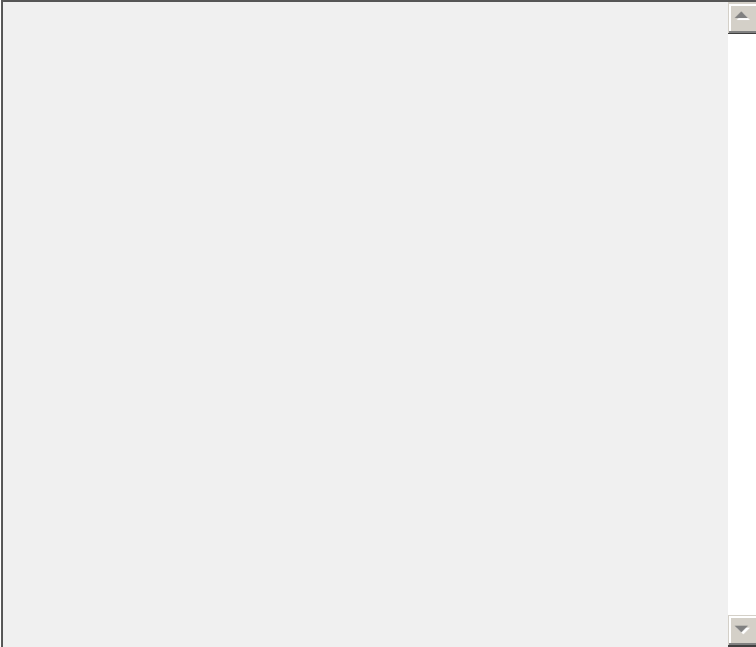
- ☐ Provider-aggregatable address space (Change of ISP means change of IPv6)
- ☐ Provider-independent address space (Keep IPv6 if different ISP)
- ☐ Don't know

## WMO IPv6 questionnaire

### 28. Have you already an official IPv6 address space allocated to your organisation?

- ☐ Yes
- ☐ No
- ☐ Don't know

If yes, please give it below



## IPv6 Basic applications

### 29. Does your organisation have DNSv6 servers up and running?

- ☐ Yes
- ☐ No
- ☐ Don't know

Other (please specify)



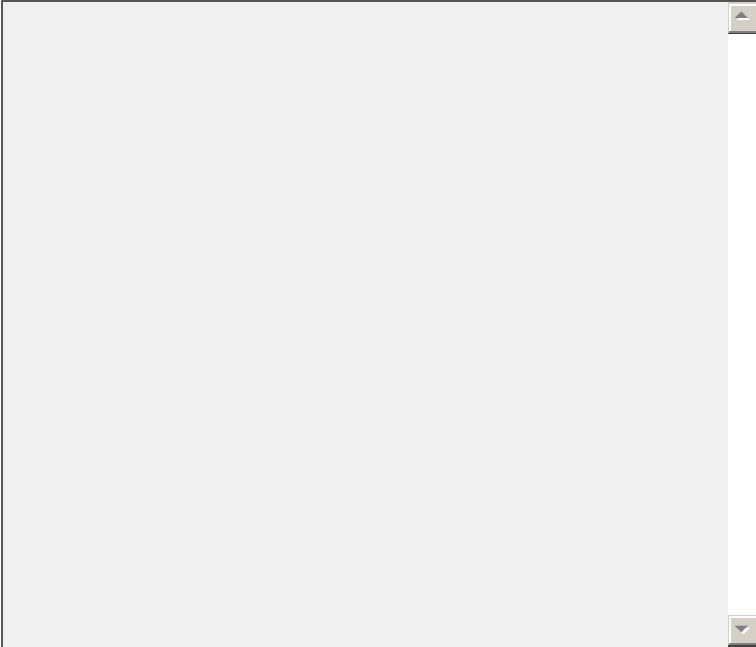


## WMO IPv6 questionnaire

### 30. Does your organisation have NTPv6 servers up and running?

- ☐ Yes
- ☐ No
- ☐ Don't know

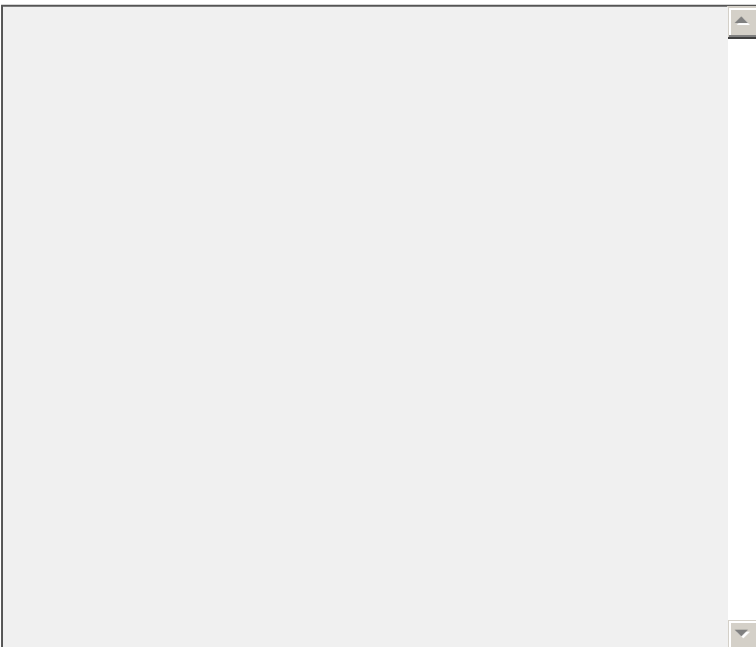
Other (please specify)

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### 31. Does your organisation have DHCPv6 servers up and running?

- ☐ Yes
- ☐ No
- ☐ Don't know

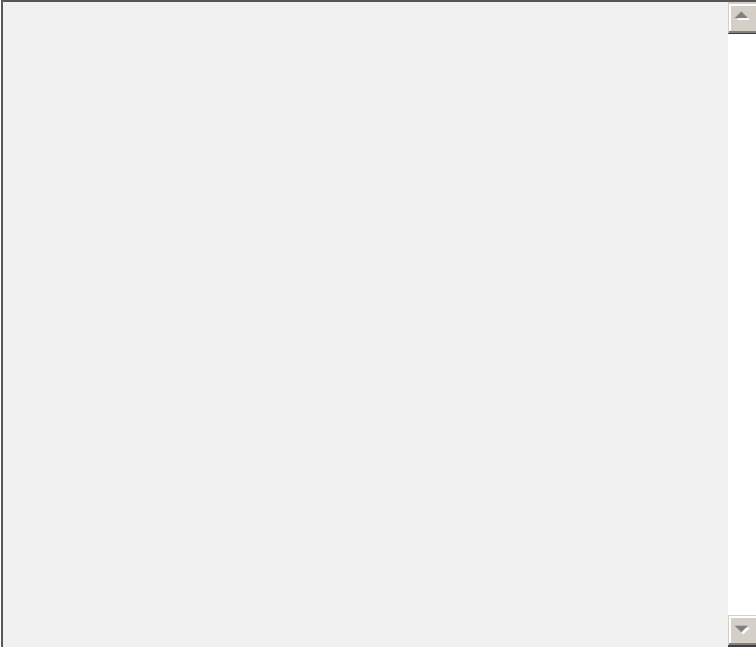
Other (please specify)

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### 32. Does your organisation have firewalls that support IPv6?

- ☐ Yes
- ☐ No
- ☐ Don't know

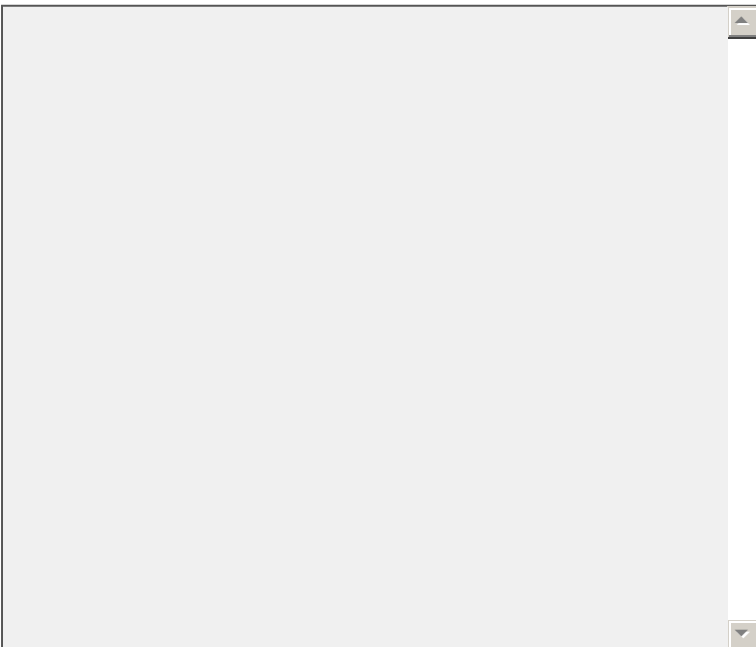
Other (please specify)



### 33. Does your organisation have other security devices which support IPv6?

- ☐ Yes
- ☐ No
- ☐ Don't know

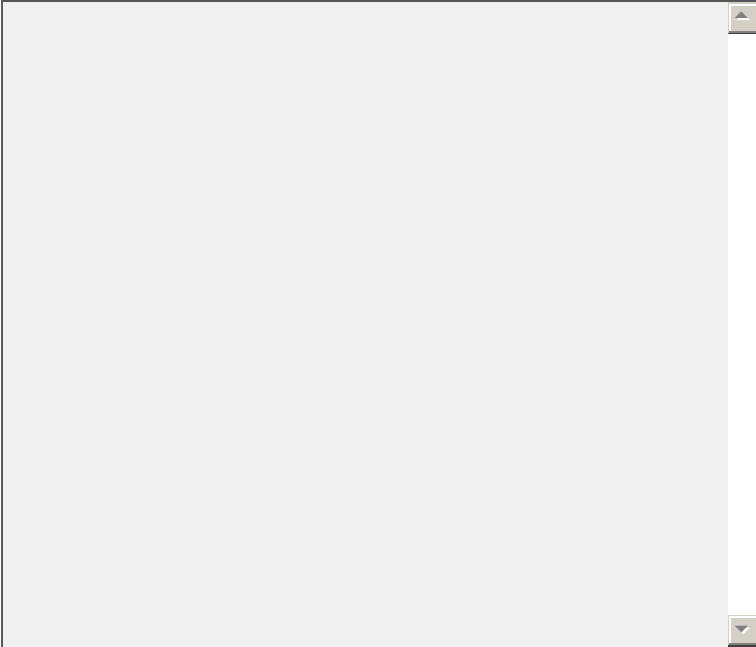
Please provide additional details



### 34. Does your organisation have a network management system that supports IPv6?

- ☐ Yes
- ☐ No
- ☐ Don't know

Other (please specify)



### 35. If you don't have the above mentioned services yet, does your organisation plan to set them up?

- ☐ Yes, in the next 6 months
- ☐ Yes, in the next 12 months
- ☐ Yes, but I don't yet when yet
- ☐ No

## IPv6 Security

**36. Is your organisation aware that security considerations are as necessary with IPv6 as they are with IPv4?**

- ☐ Yes
- ☐ No

**37. Is your organisation aware that there are new security risks when implementing IPv6?**

- ☐ Yes
- ☐ No

**38. Is your organisation planning to use IPSec when implementing IPv6?**

- ☐ Yes, go to next question
- ☐ No, skip next question
- ☐ Don't know

**39. If your organisation is planning to use IPSEC, is it aware of the implications of using IPv6 end-to-end?**

- ☐ Yes
- ☐ Partly
- ☐ No

**40. If your organisation is not planning to use IPSEC, will it be evaluating the risks with IPv6, and set up appropriate security configurations?**

- ☐ Yes
- ☐ No
- ☐ Don't know

**41. Has your organisation developed an IPv6 security policy, at least for the network devices?**

- ☐ Yes
- ☐ No, not yet
- ☐ No, we don't need one

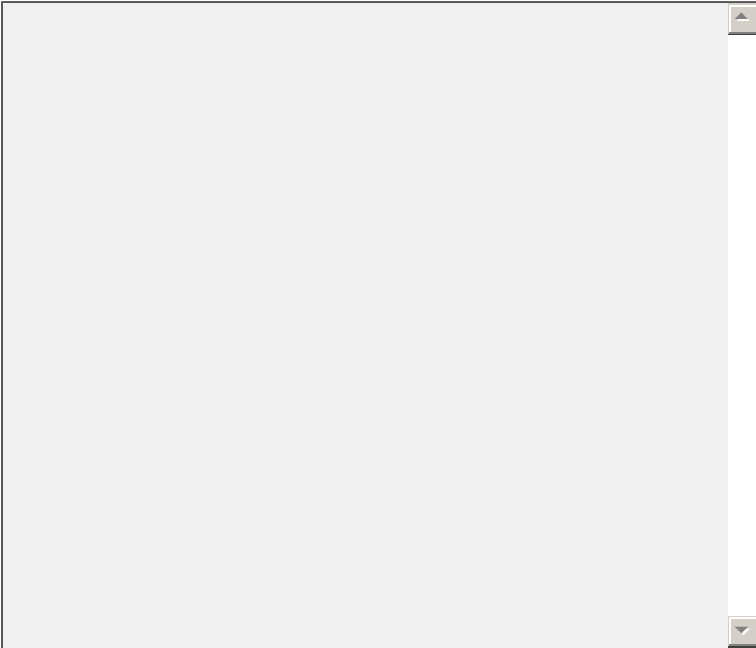
## IPv6 Operations

**42. Does your organisation already have some experience with IPv6 applications? (eg. Mobile phone applications, Microsoft products, ...)**

☐ Yes

☐ No

Please provide some additional information

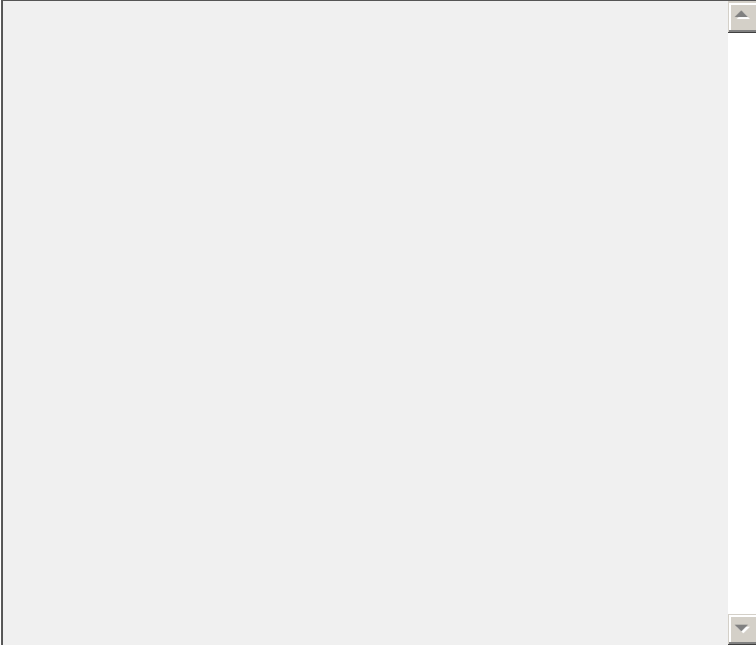


## WMO IPv6 questionnaire

**43. If your organisation already has allocated IPv6 address space, has it been configured it in (parts) of your network already?**

- ☐ Yes
- ☐ No

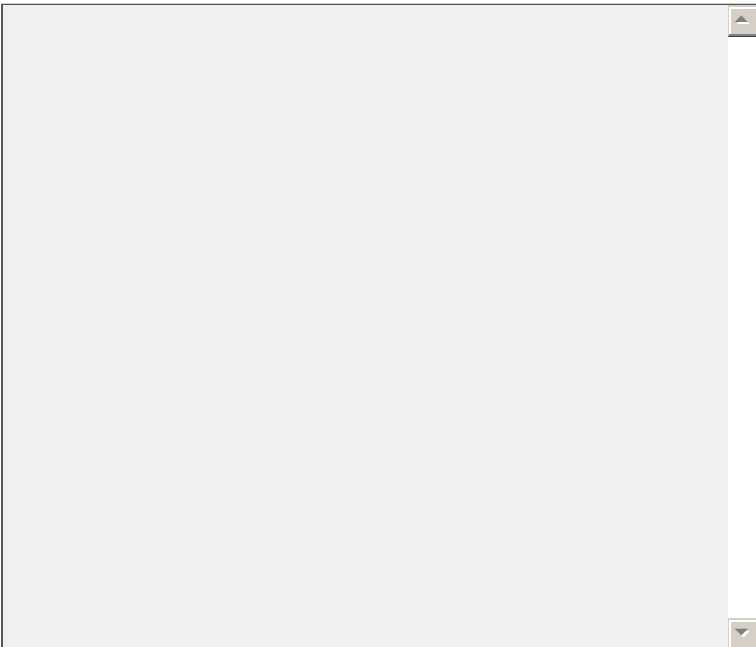
Please provide some additional information

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**44. Has your organisation set up an IPv6 test bed already?**

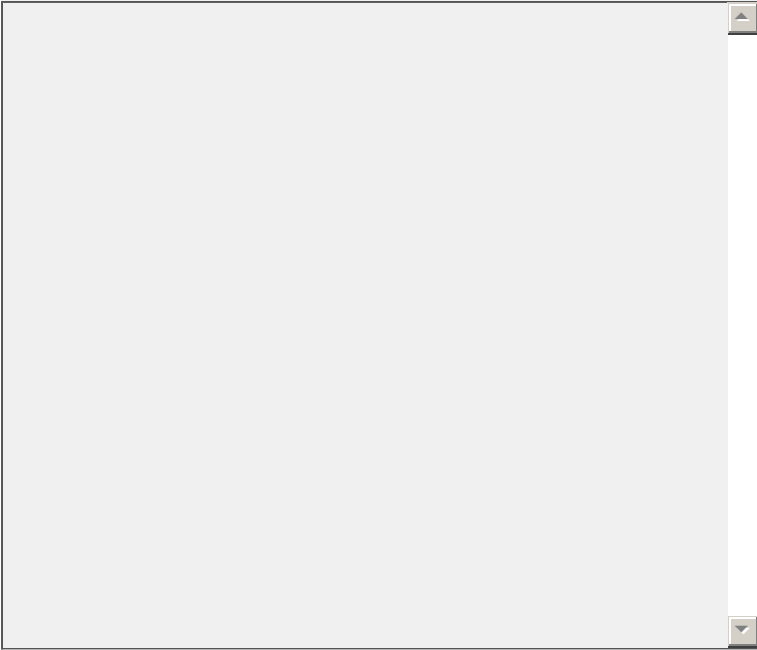
- ☐ Yes
- ☐ No

Please provide some additional information

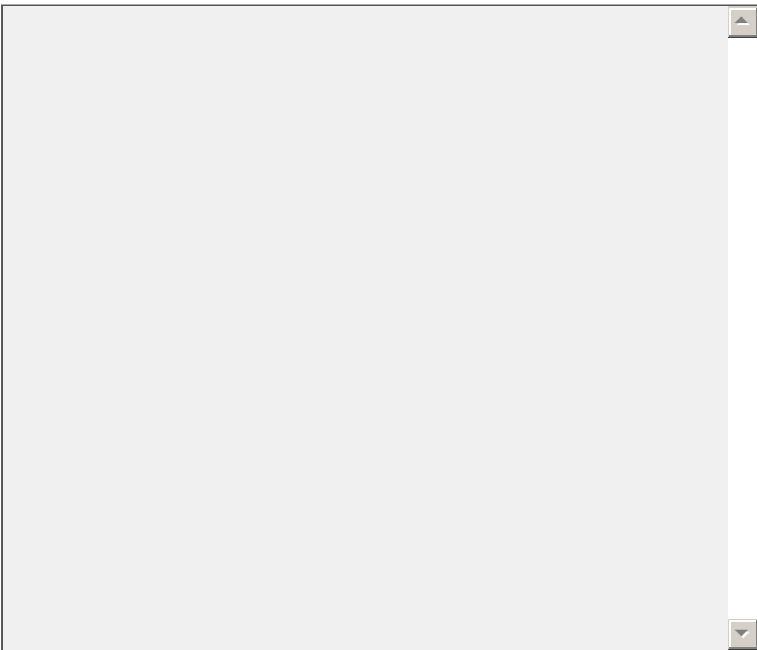
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## IPv6 Training

**45. On which IPv6 topics your organisation need additional information or training?**

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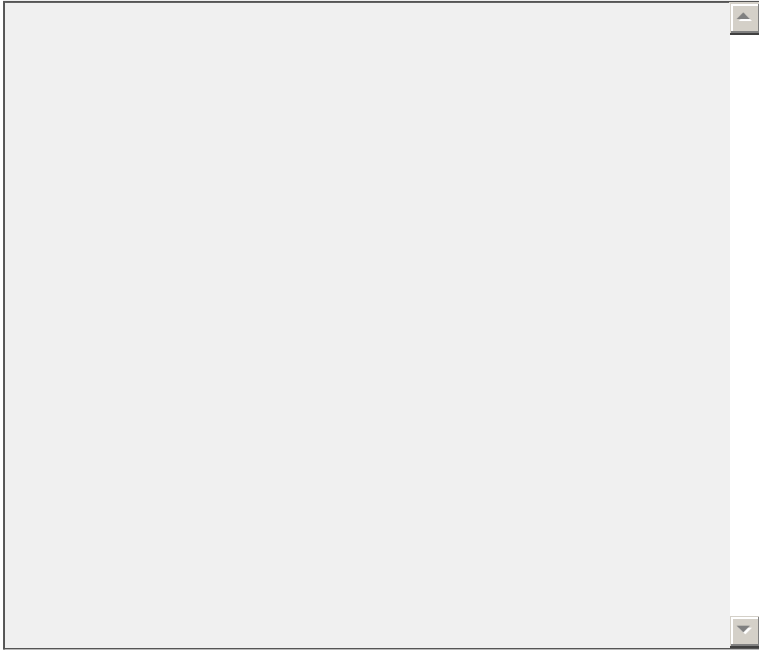
**46. How is your organisation planning to get this information or training?**

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## WMO IPv6 questionnaire

**47. For your organisation, which topics regarding the transition to IPv6 in WIS Centres should be addressed in a dedicated IPv6 WMO workshop?**

**Please provide a list of topics.**

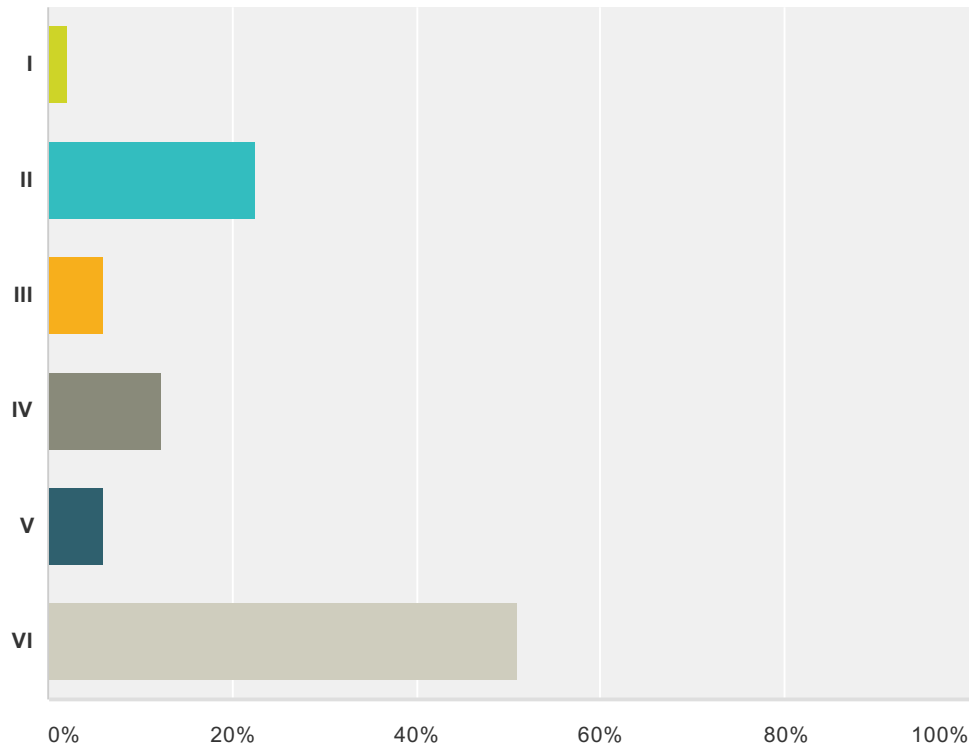




## 5. RESULTS OF THE SURVEY

## Q4 Please enter the WMO Regional Association of your country

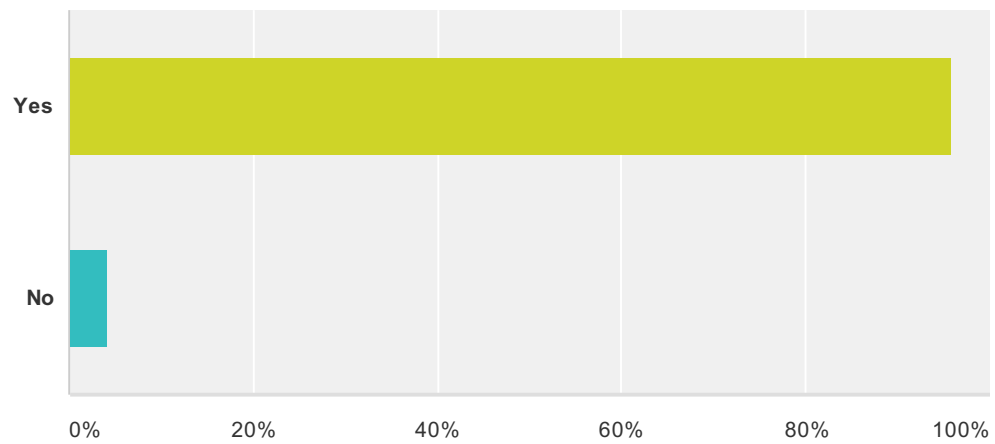
Answered: 49 Skipped: 0



Answer Choices	Responses	
I	2.04%	1
II	22.45%	11
III	6.12%	3
IV	12.24%	6
V	6.12%	3
VI	51.02%	25
Total		49

**Q5 Is your organisation aware that IPv6 is becoming the new addressing scheme for IP based applications worldwide?**

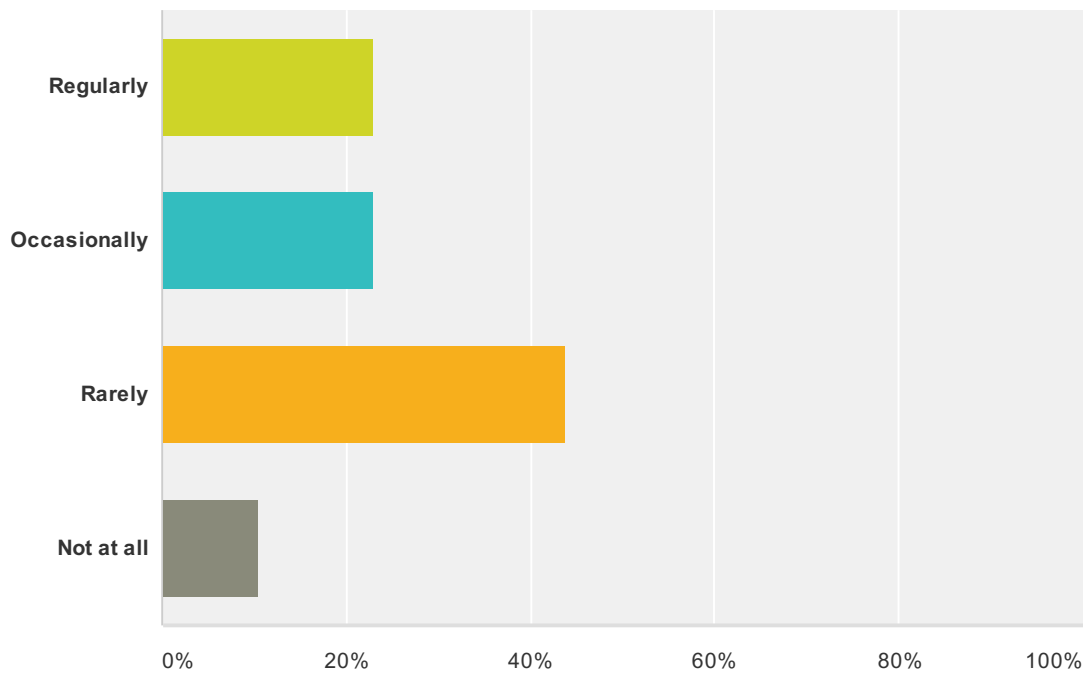
Answered: 48 Skipped: 1



Answer Choices	Responses	
Yes	95.83%	46
No	4.17%	2
Total		48

### Q6 How closely is your organisation monitoring the development and growing implementation of IPv6 addresses?

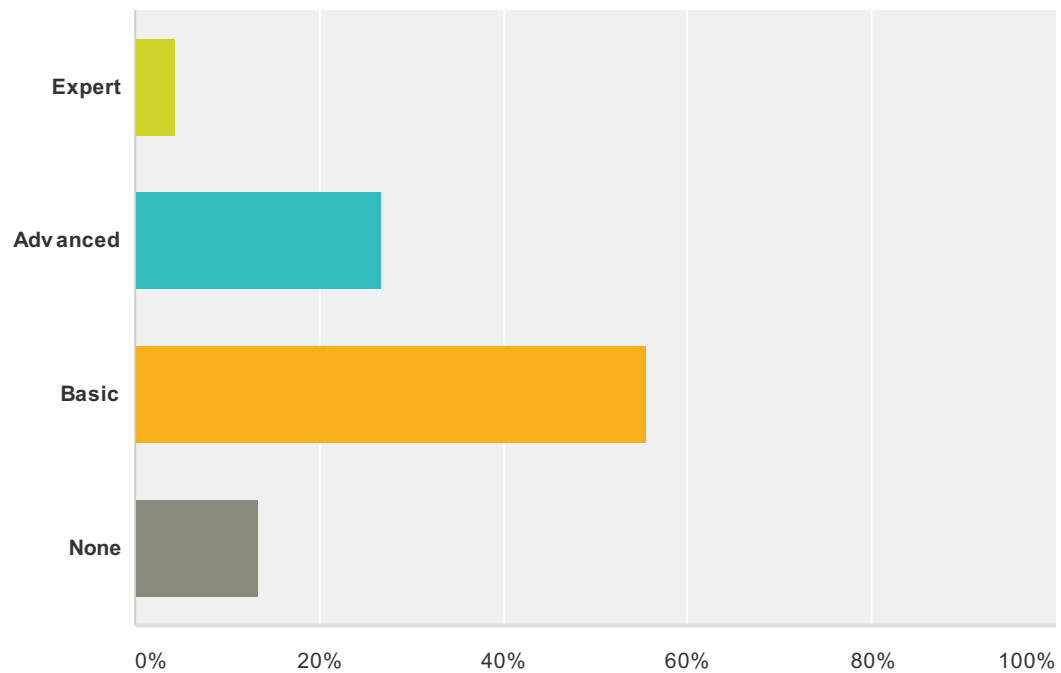
Answered: 48 Skipped: 1



Answer Choices	Responses	
Regularly	22.92%	11
Occasionally	22.92%	11
Rarely	43.75%	21
Not at all	10.42%	5
Total		48

## Q7 Rate your organisation's overall IPv6 knowledge.

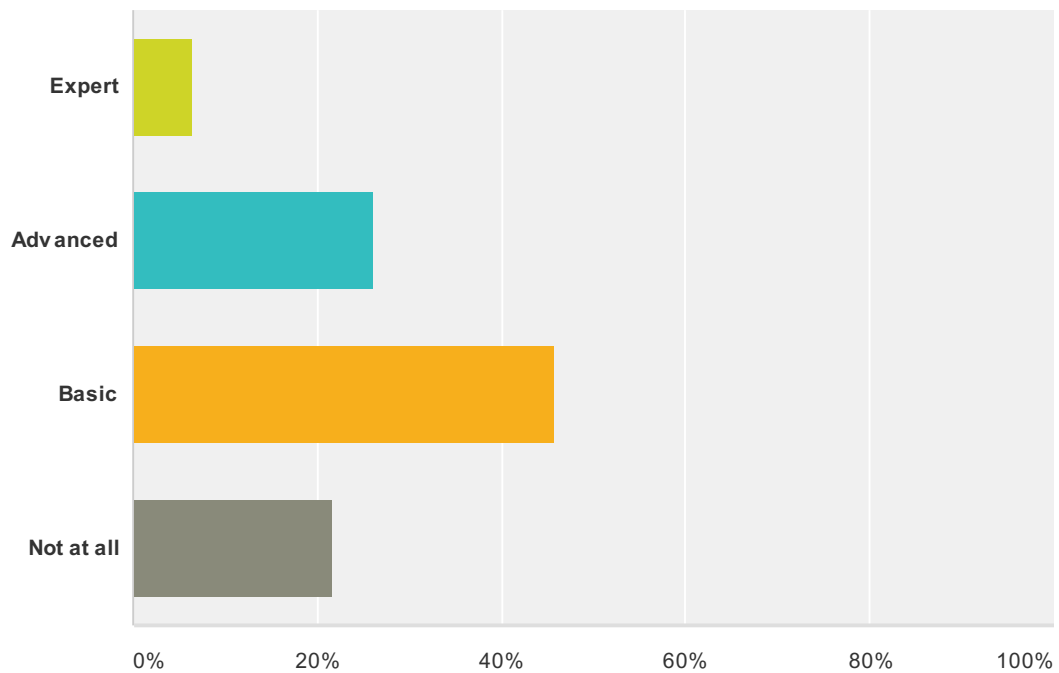
Answered: 45 Skipped: 4



Answer Choices	Responses
Expert	4.44%2
Advanced	26.67%12
Basic	55.56%25
None	13.33%6
Total	45

### Q8 How familiar is your organisation with the concept of IPv6 addresses (link local, unique local, global, anycast, multicast)?

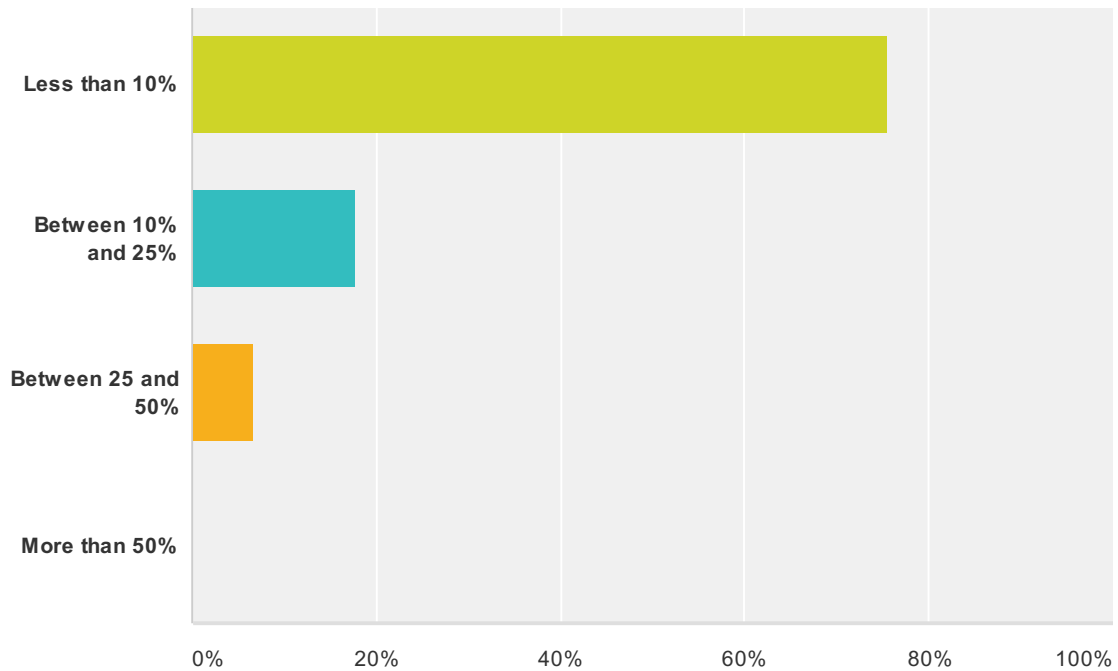
Answered: 46 Skipped: 3



Answer Choices	Responses	
Expert	6.52%	3
Advanced	26.09%	12
Basic	45.65%	21
Not at all	21.74%	10
Total		46

### Q9 What percentage of IT staff in your organisation have attended informational workshops or IPv6 training sessions already?

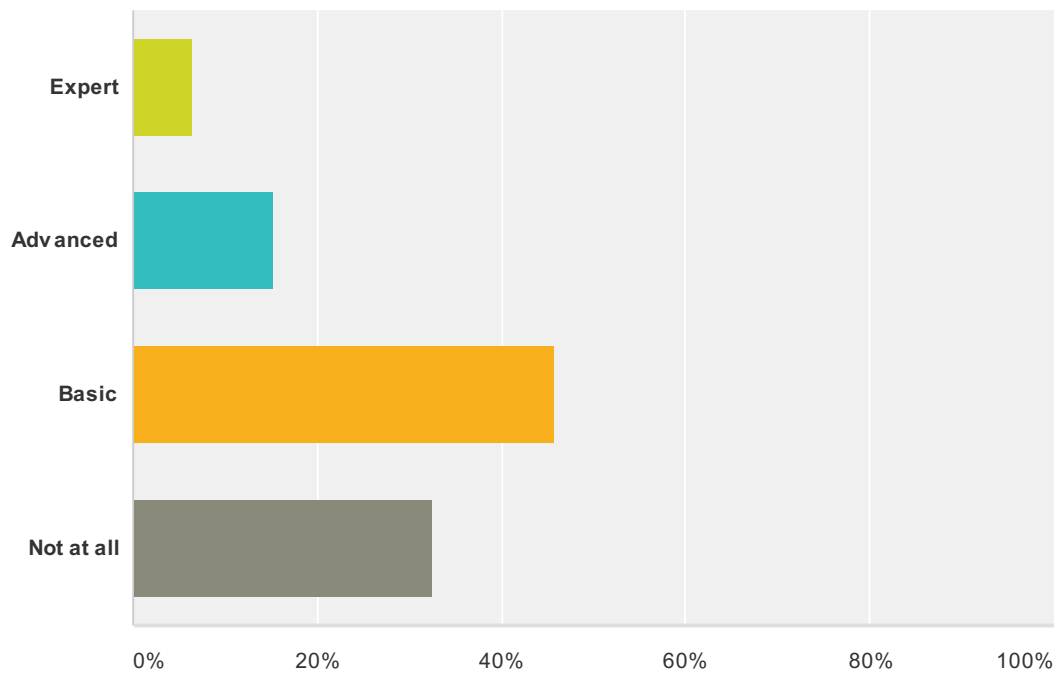
Answered: 45 Skipped: 4



Answer Choices	Responses	
Less than 10%	75.56%	34
Between 10% and 25%	17.78%	8
Between 25 and 50%	6.67%	3
More than 50%	0%	0
<b>Total</b>		<b>45</b>

### Q10 How familiar is your organisation with IPv6 routing protocols?

Answered: 46 Skipped: 3

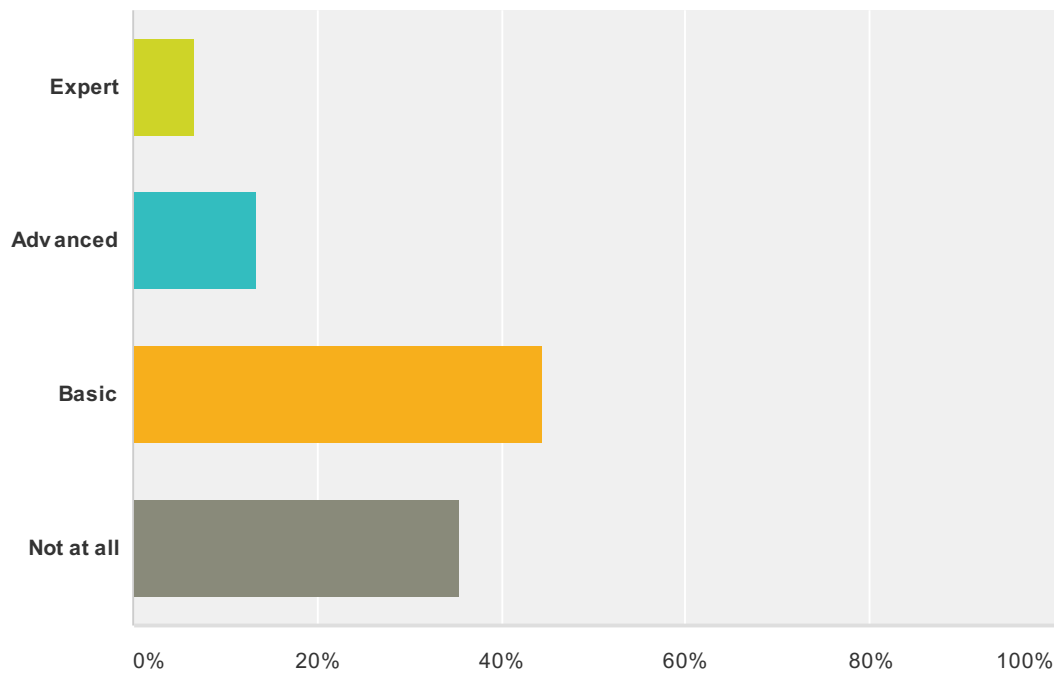


Answer Choices	Responses	
Expert	6.52%	3
Advanced	15.22%	7
Basic	45.65%	21
Not at all	32.61%	15
Total		46



## Q11 How familiar is your organisation with the security concepts of IPv6?

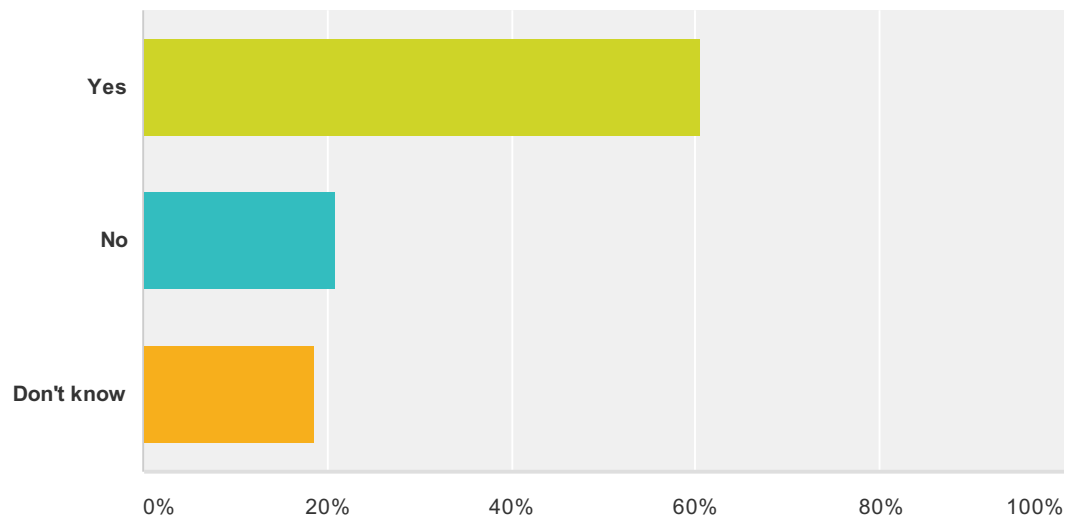
Answered: 45 Skipped: 4



Answer Choices	Responses	
Expert	6.67%	3
Advanced	13.33%	6
Basic	44.44%	20
Not at all	35.56%	16
<b>Total</b>		<b>45</b>

## Q12 Is your organisation planning to gradually implement IPv6 in its network?

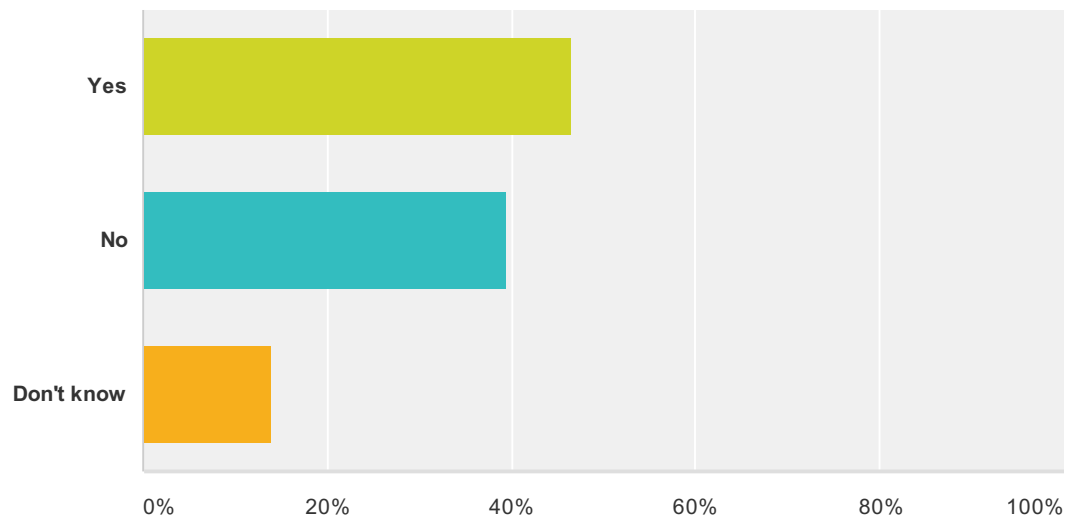
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	60.47%	26
No	20.93%	9
Don't know	18.60%	8
Total		43

**Q13 Does your organisation have a plan about where in its network it wants to implement IPv6 (core, edge, DMZ, Internet, ...)?**

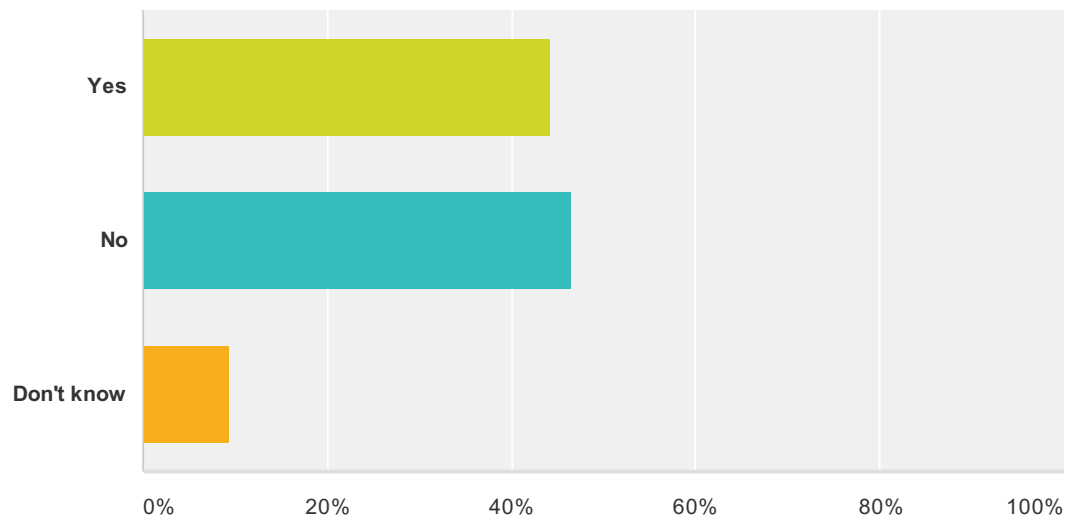
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	46.51%	20
No	39.53%	17
Don't know	13.95%	6
Total		43

### Q14 Does your organisation have a list of network devices that will be affected when implementing IPv6 in its network?

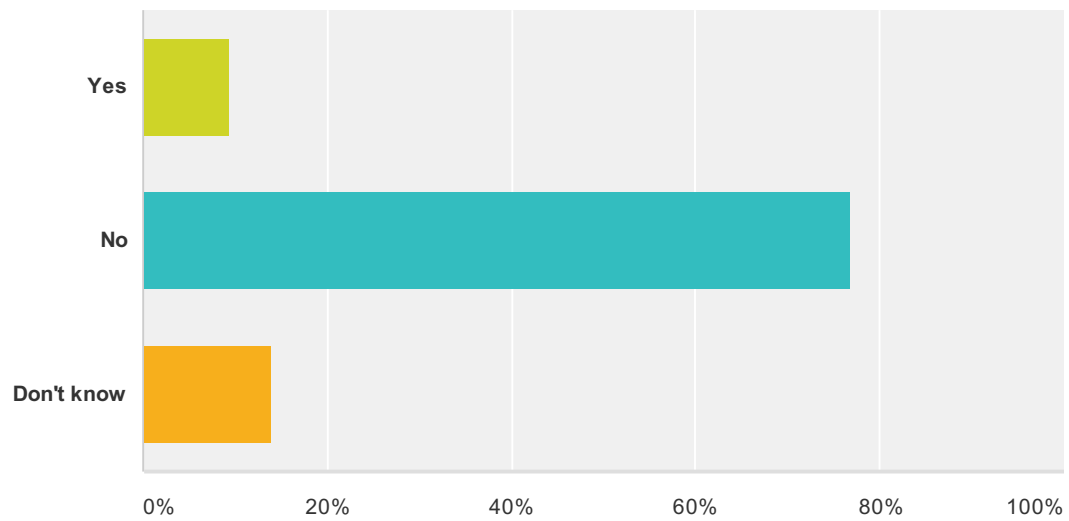
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	44.19%	19
No	46.51%	20
Don't know	9.30%	4
<b>Total</b>		<b>43</b>

### Q15 Does your organisation have a list of software applications which will be using IPv6?

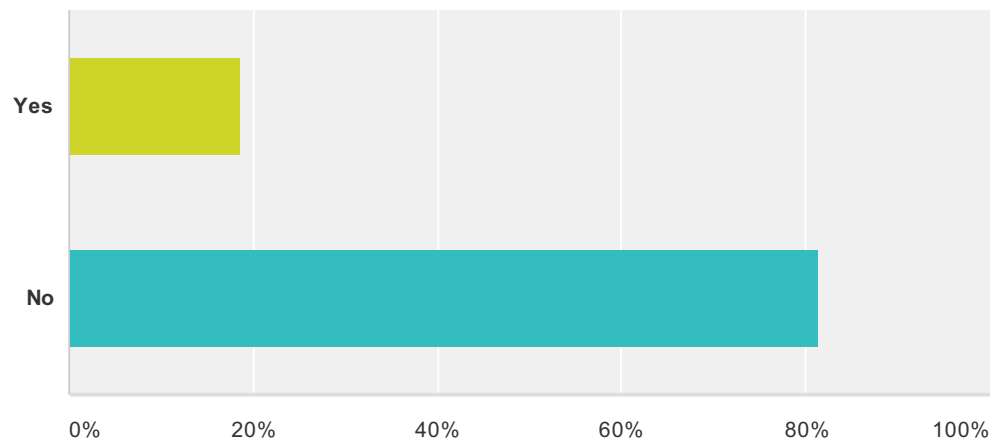
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	9.30%	4
No	76.74%	33
Don't know	13.95%	6
Total		43

### Q16 Does your organisation have a timeline for implementing IPv6 in your network?

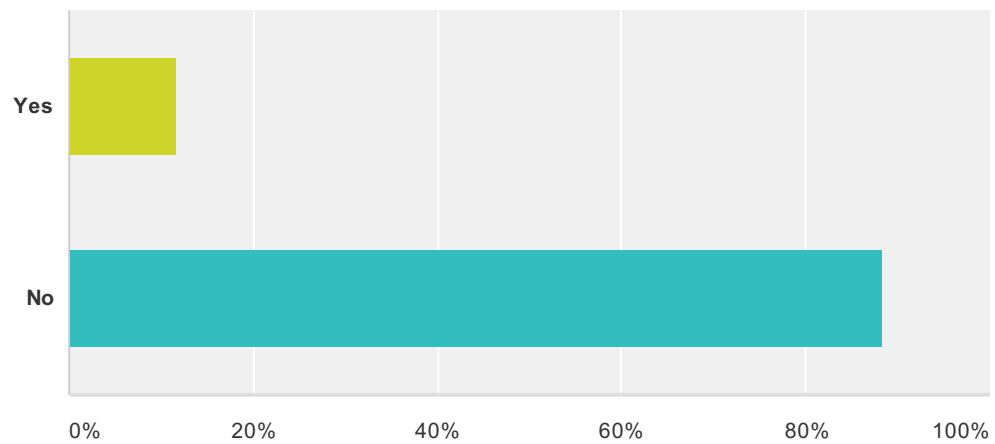
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	18.60%	8
No	81.40%	35
Total		43

### Q17 Does your organisation have a timeline for setting up IPv6 applications?

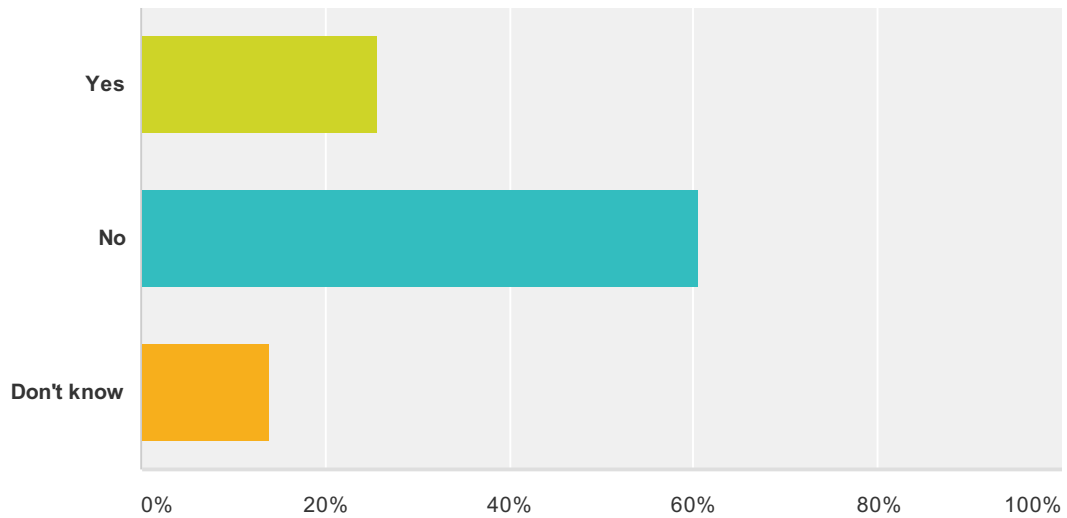
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	11.63%	5
No	88.37%	38
Total		43

**Q18 Has your organisation decided which IP stack it will be using during the transition to IPv6 (dual stack, tunnel, translation)?**

Answered: 43 Skipped: 6

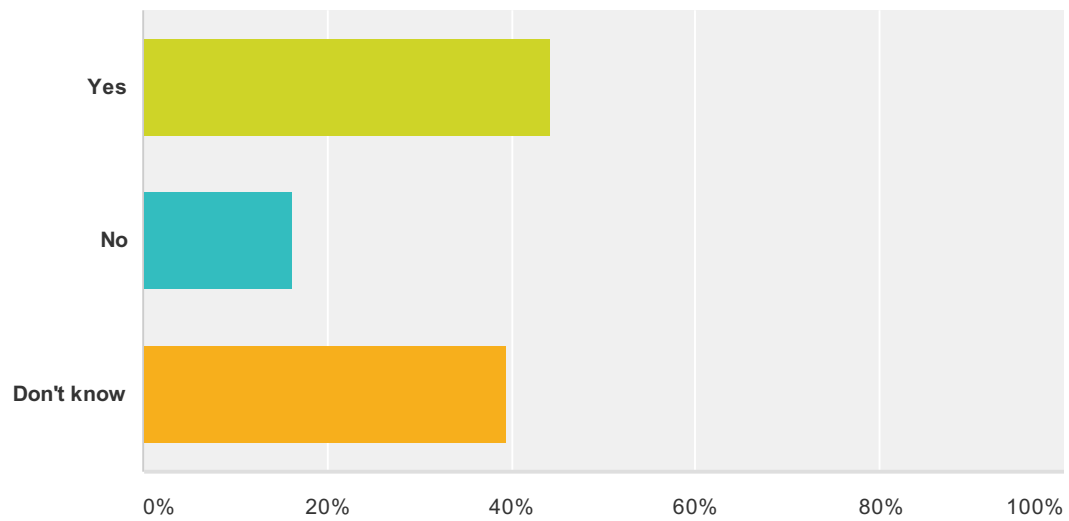


Answer Choices	Responses	
Yes	25.58%	11
No	60.47%	26
Don't know	13.95%	6
Total		43



## Q19 Will your organisation be using an IPv6 routing protocol?

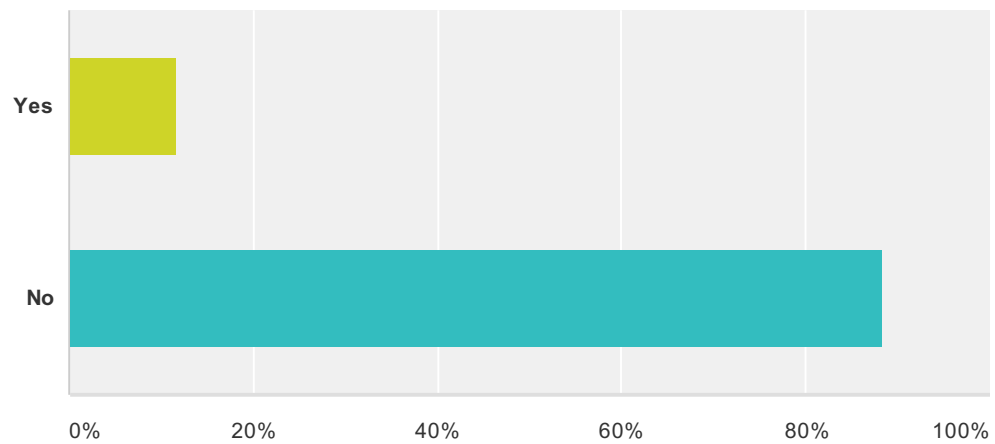
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	44.19%	19
No	16.28%	7
Don't know	39.53%	17
Total		43

## Q20 Does your organisation have a dedicated team for the IPv6 activities?

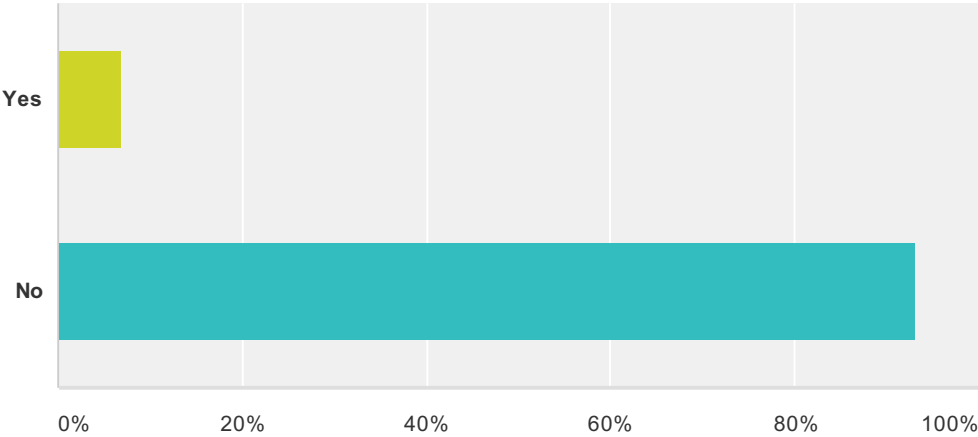
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	11.63%	5
No	88.37%	38
Total		43

Q21 Has your organisation developed an IPv6 training strategy and plan?

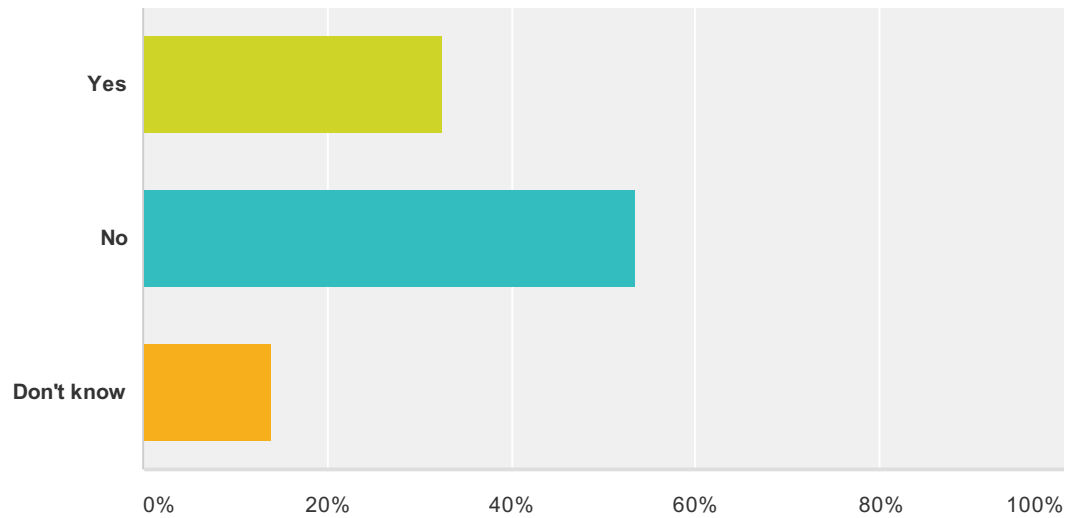
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	6.98%	3
No	93.02%	40
Total		43

**Q22 Are there external conditions that  
require the transition to IPv6  
(Governmental decision...) in your  
organisation?**

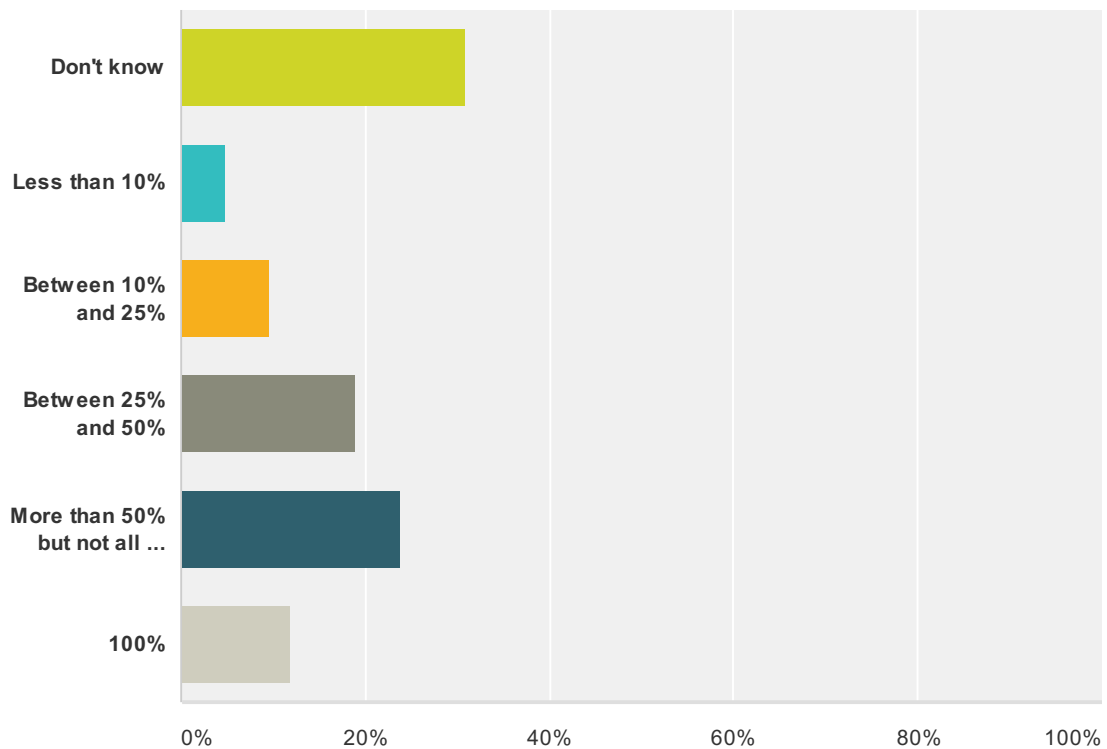
Answered: 43 Skipped: 6



Answer Choices	Responses	
Yes	32.56%	14
No	53.49%	23
Don't know	13.95%	6
Total		43

### Q23 What percentage of the network equipment installed at your organisation that will be affected by the transition to IPv6 support that protocol?

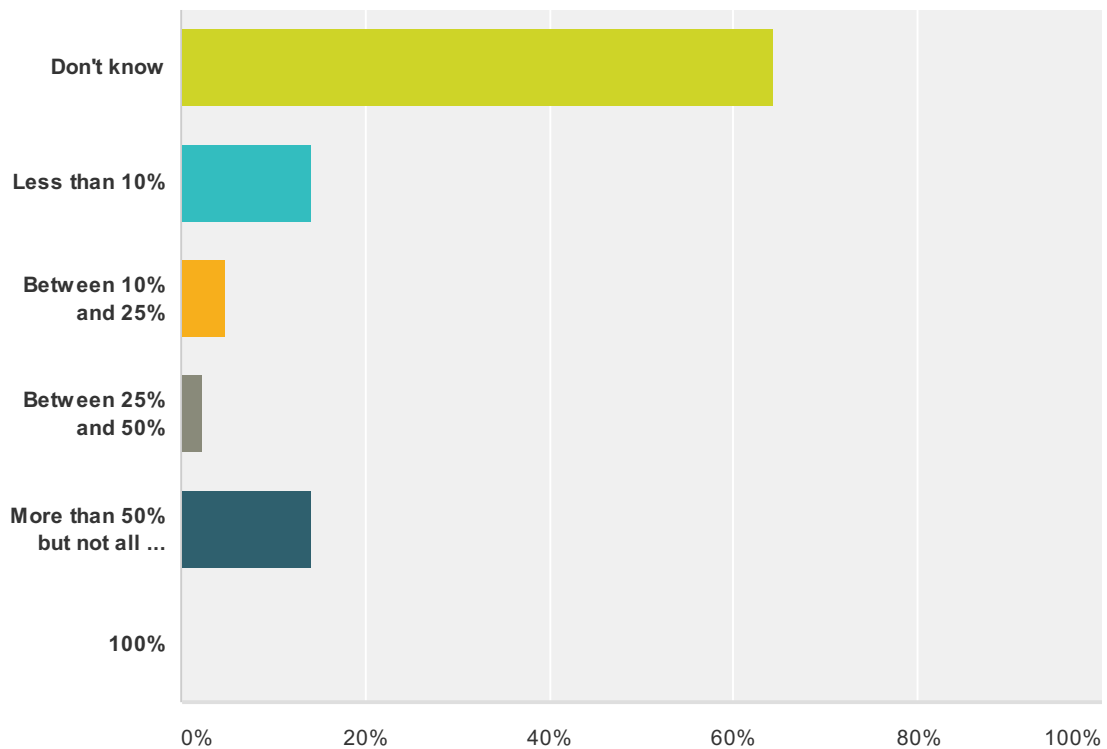
Answered: 42 Skipped: 7



Answer Choices	Responses	
Don't know	30.95%	13
Less than 10%	4.76%	2
Between 10% and 25%	9.52%	4
Between 25% and 50%	19.05%	8
More than 50% but not all of them	23.81%	10
100%	11.90%	5
<b>Total</b>		<b>42</b>

### Q24 What percentage of your organisation's software support IPv6, especially those which are needed to support WIS?

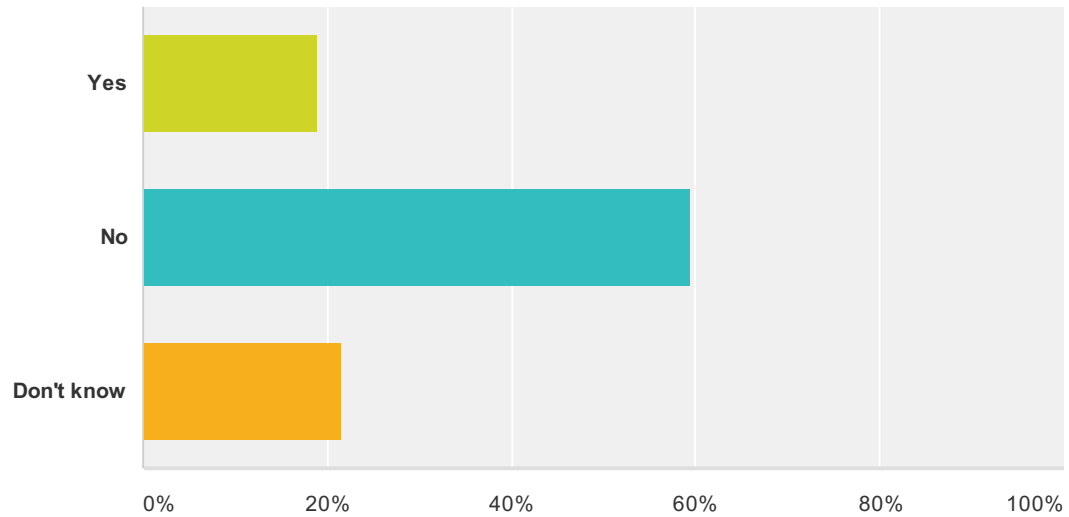
Answered: 42 Skipped: 7



Answer Choices	Responses	
Don't know	64.29%	27
Less than 10%	14.29%	6
Between 10% and 25%	4.76%	2
Between 25% and 50%	2.38%	1
More than 50% but not all of them	14.29%	6
100%	0%	0
<b>Total</b>		<b>42</b>

**Q25 If either your network or your applications are not fully ready for IPv6, does your organisation have a plan and a budget for the required equipment/features?**

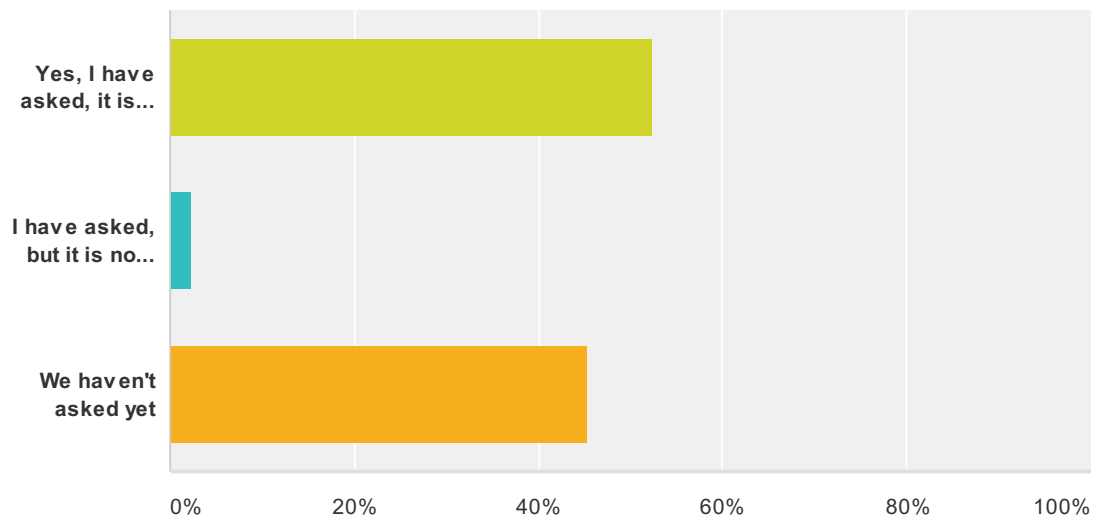
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	19.05%	8
No	59.52%	25
Don't know	21.43%	9
Total		42

## Q26 Are your organisation's network providers able to offer IPv6 connectivity to your site?

Answered: 42 Skipped: 7

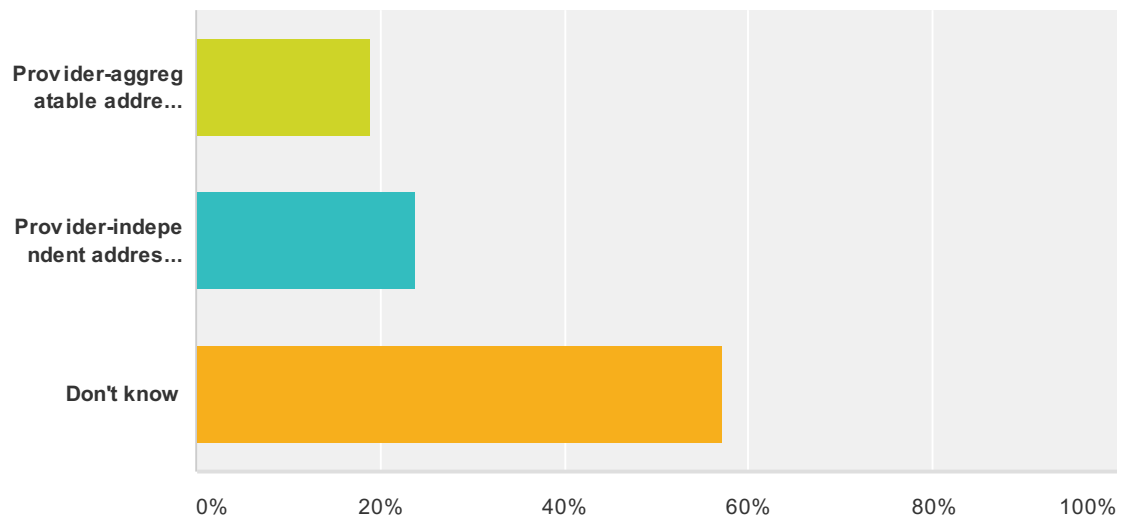


Answer Choices	Responses	
Yes, I have asked, it is possible	52.38%	22
I have asked, but it is not possible	2.38%	1
We haven't asked yet	45.24%	19
Total		42



## Q27 Has your organisation already decided what kind of IPv6 addresses it is going to use?

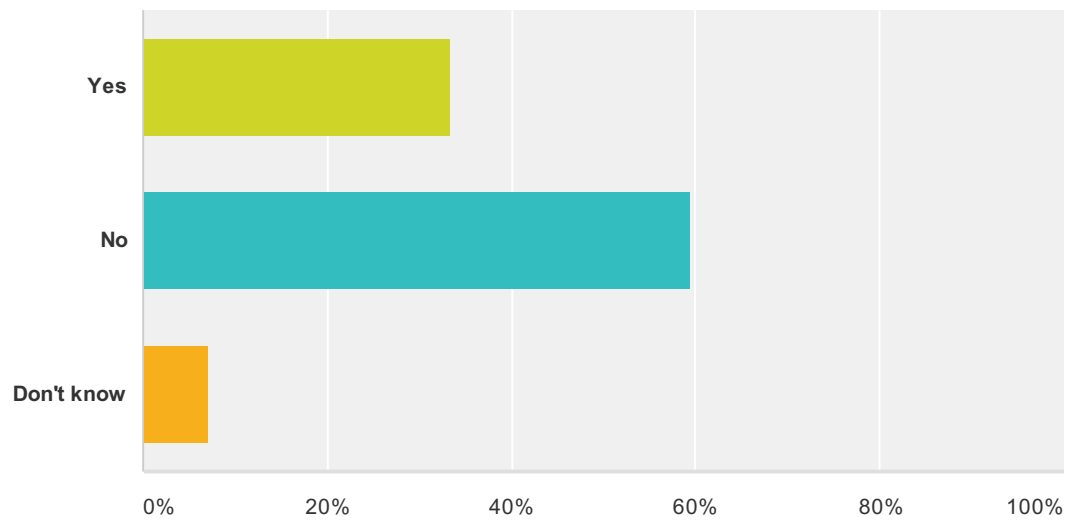
Answered: 42 Skipped: 7



Answer Choices	Responses	
Provider-aggregatable address space (Change of ISP means change of IPv6)	19.05%	8
Provider-independent address space (Keep IPv6 if different ISP)	23.81%	10
Don't know	57.14%	24
Total		42

## Q28 Have you already an official IPv6 address space allocated to your organisation?

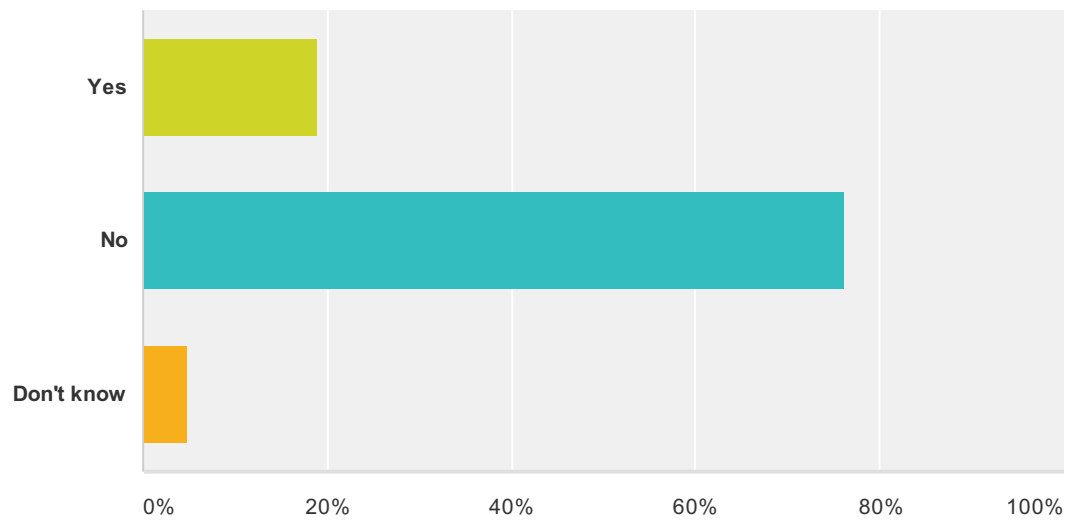
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	33.33%	14
No	59.52%	25
Don't know	7.14%	3
Total		42

**Q29 Does your organisation have DNSv6 servers up and running?**

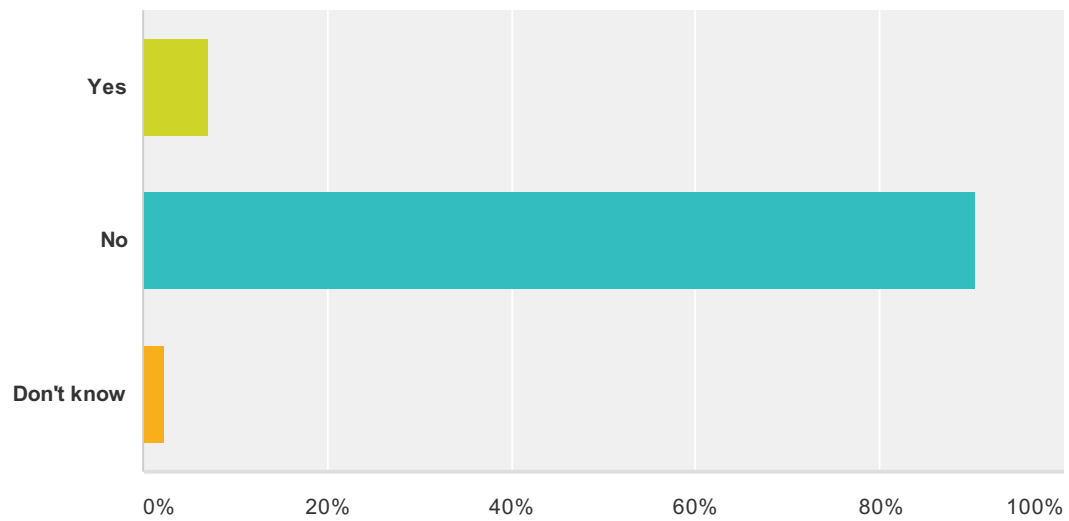
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	19.05%	8
No	76.19%	32
Don't know	4.76%	2
Total		42

**Q30 Does your organisation have NTPv6 servers up and running?**

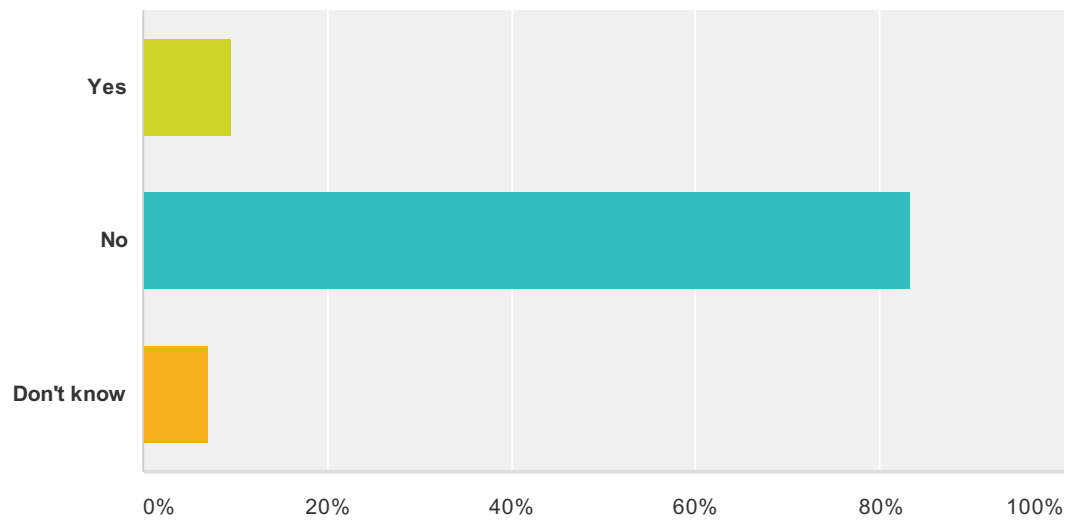
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	7.14%	3
No	90.48%	38
Don't know	2.38%	1
Total		42

**Q31 Does your organisation have DHCPv6 servers up and running?**

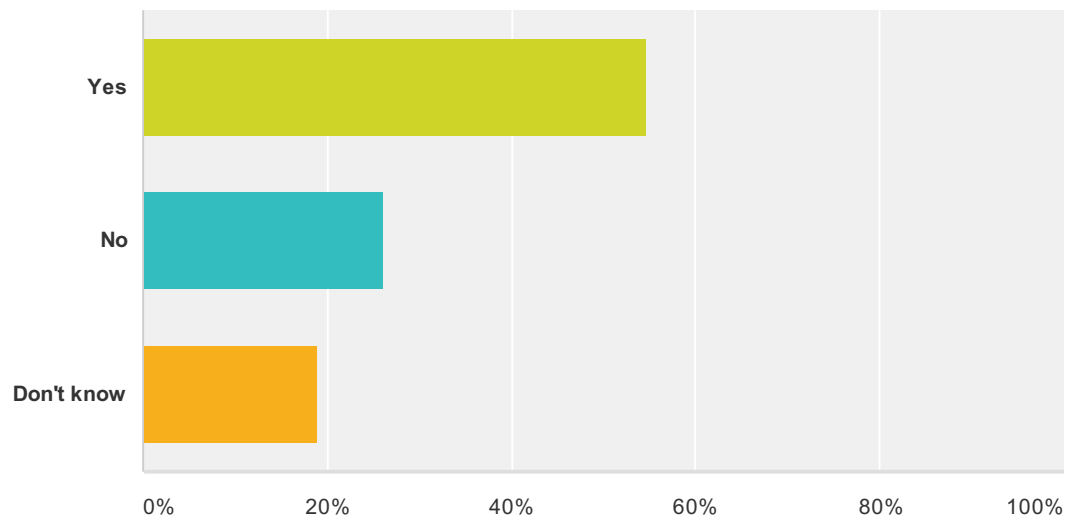
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	9.52%	4
No	83.33%	35
Don't know	7.14%	3
Total		42

### Q32 Does your organisation have firewalls that support IPv6?

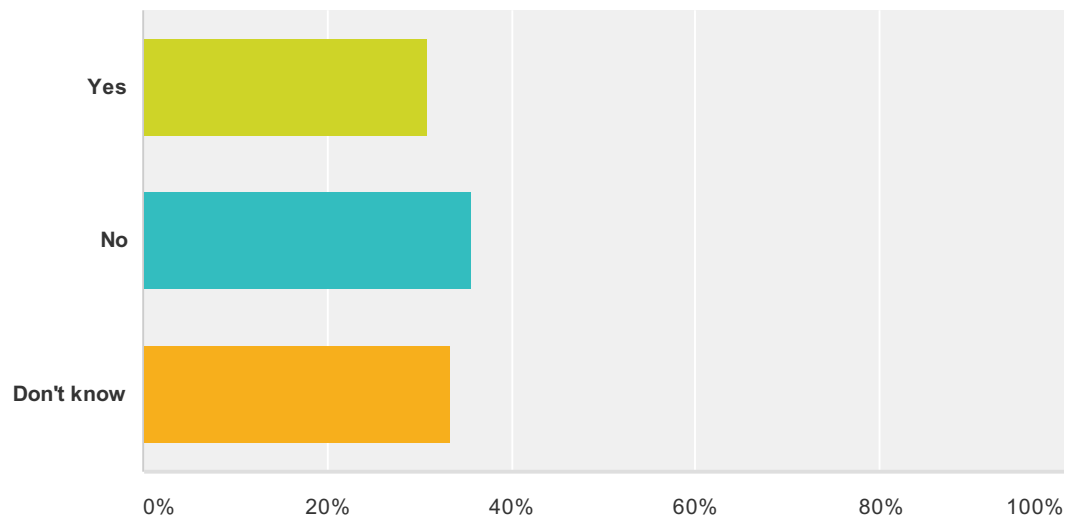
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	54.76%	23
No	26.19%	11
Don't know	19.05%	8
Total		42

**Q33 Does your organisation have other security devices which support IPv6?**

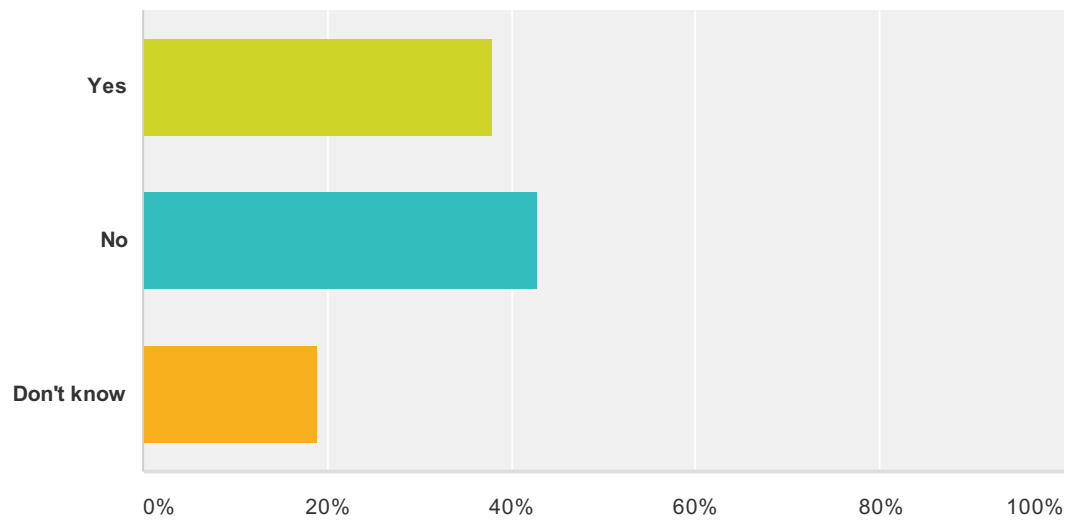
Answered: 42 Skipped: 7



Answer Choices	Responses	
Yes	30.95%	13
No	35.71%	15
Don't know	33.33%	14
Total		42

### Q34 Does your organisation have a network management system that supports IPv6?

Answered: 42 Skipped: 7

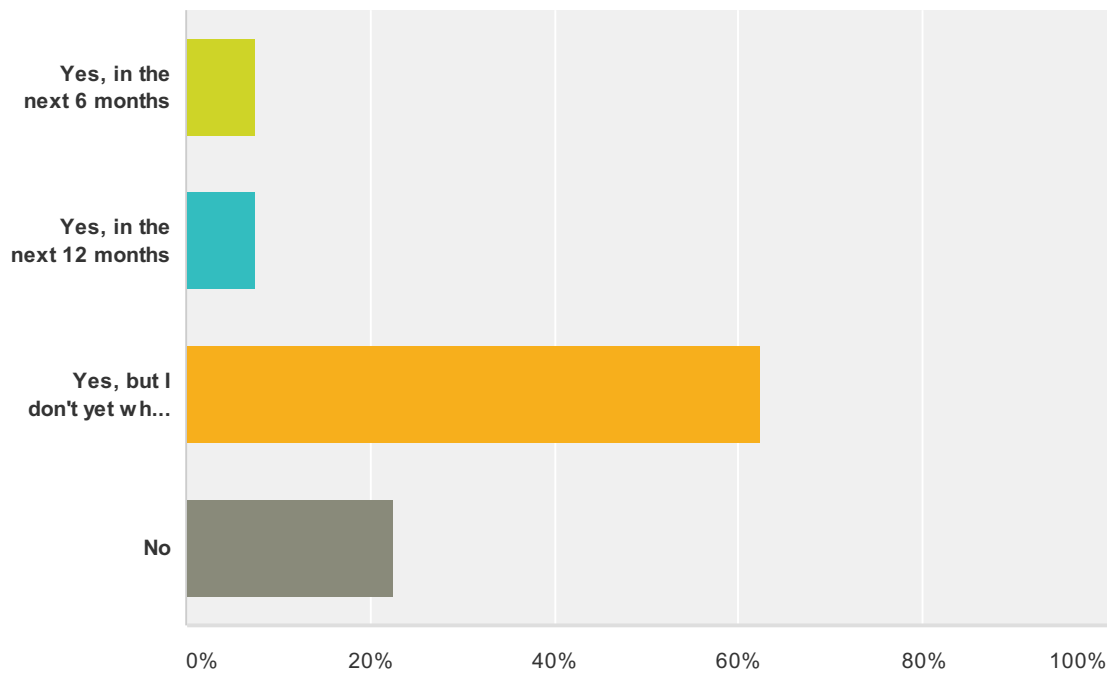


Answer Choices	Responses	
Yes	38.10%	16
No	42.86%	18
Don't know	19.05%	8
Total		42



### Q35 If you don't have the above mentioned services yet, does your organisation plan to set them up?

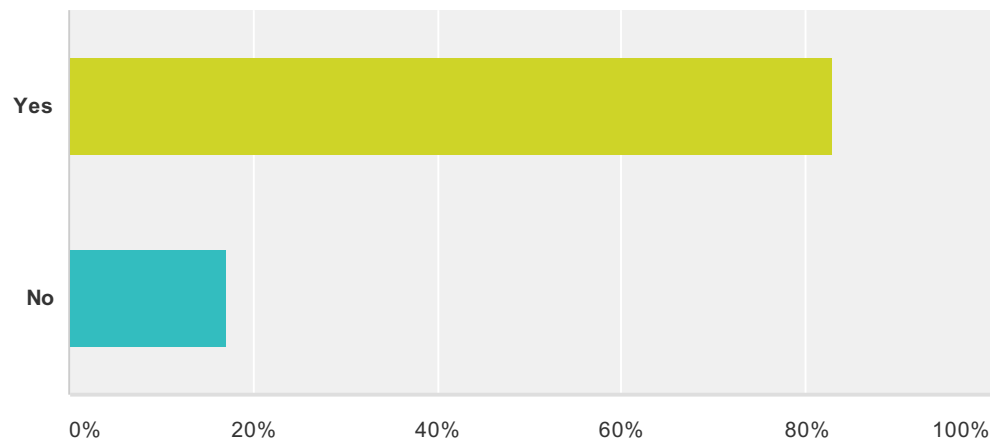
Answered: 40 Skipped: 9



Answer Choices	Responses	
Yes, in the next 6 months	7.50%	3
Yes, in the next 12 months	7.50%	3
Yes, but I don't yet when yet	62.50%	25
No	22.50%	9
Total		40

**Q36 Is your organisation aware that security considerations are as necessary with IPv6 as they are with IPv4?**

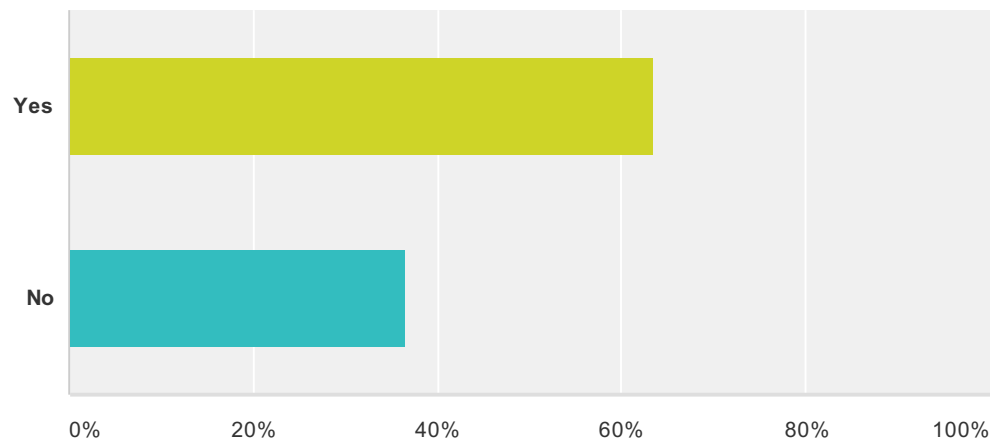
Answered: 41 Skipped: 8



Answer Choices	Responses	
Yes	82.93%	34
No	17.07%	7
Total		41

### Q37 Is your organisation aware that there are new security risks when implementing IPv6?

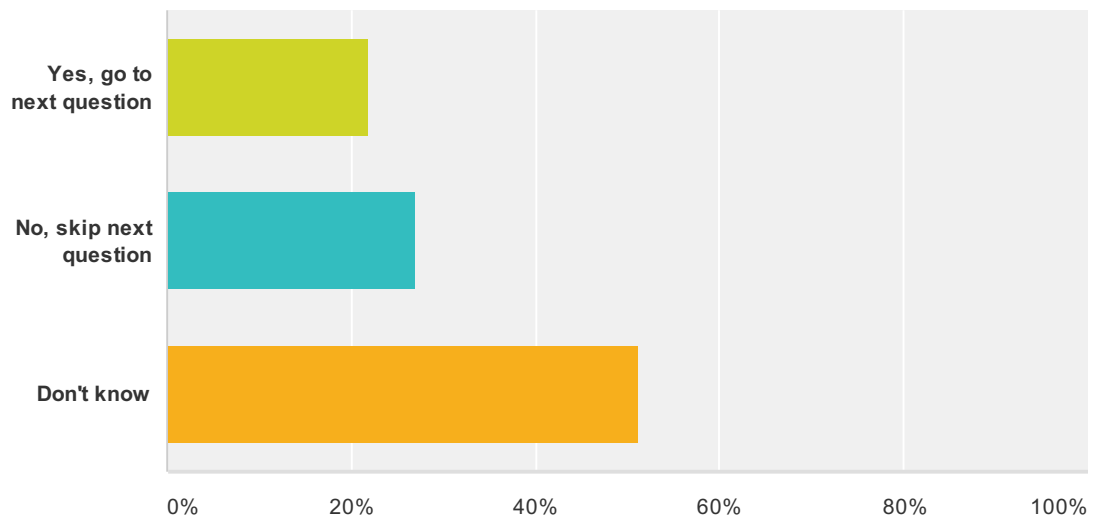
Answered: 41 Skipped: 8



Answer Choices	Responses	
Yes	63.41%	26
No	36.59%	15
Total		41

**Q38 Is your organisation planning to use IPSec when implementing IPv6?**

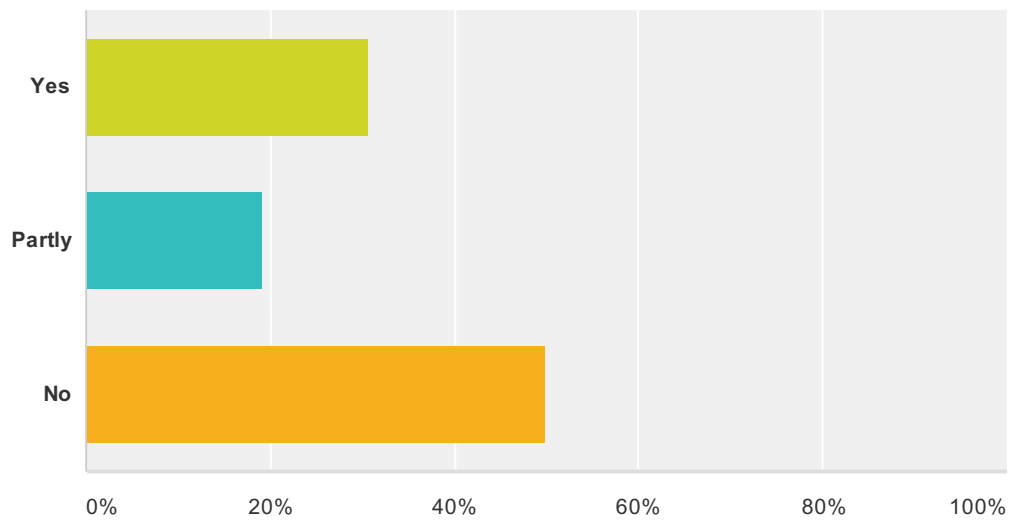
Answered: 41 Skipped: 8



Answer Choices	Responses	
Yes, go to next question	21.95%	9
No, skip next question	26.83%	11
Don't know	51.22%	21
Total		41

### Q39 If your organisation is planning to use IPSEC, is it aware of the implications of using IPv6 end-to-end?

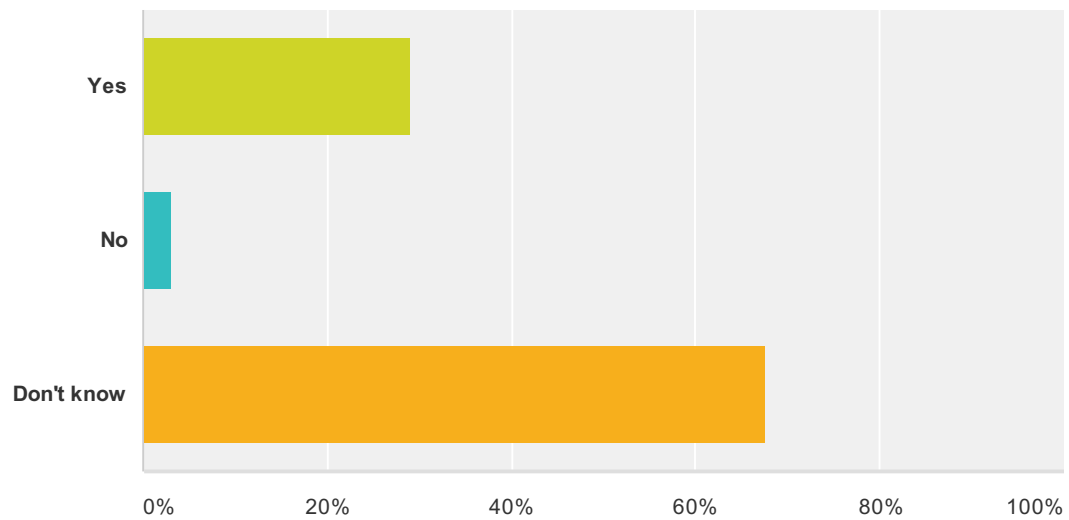
Answered: 26 Skipped: 23



Answer Choices	Responses	
Yes	30.77%	8
Partly	19.23%	5
No	50%	13
Total		26

**Q40 If your organisation is not planning to use IPSEC, will it be evaluating the risks with IPv6, and set up appropriate security configurations?**

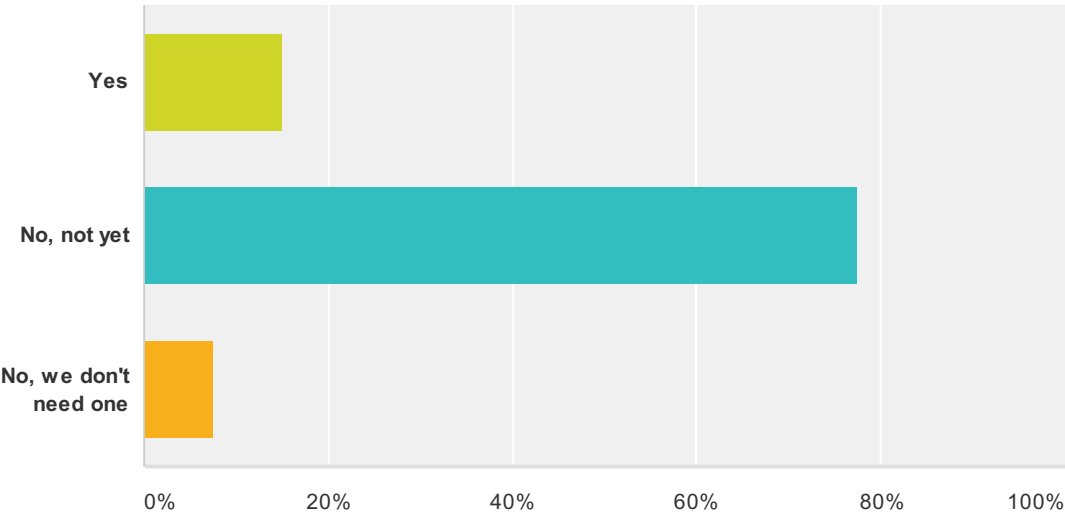
Answered: 31 Skipped: 18



Answer Choices	Responses	
Yes	29.03%	9
No	3.23%	1
Don't know	67.74%	21
Total		31

Q41 Has your organisation developed an IPv6 security policy, at least for the network devices?

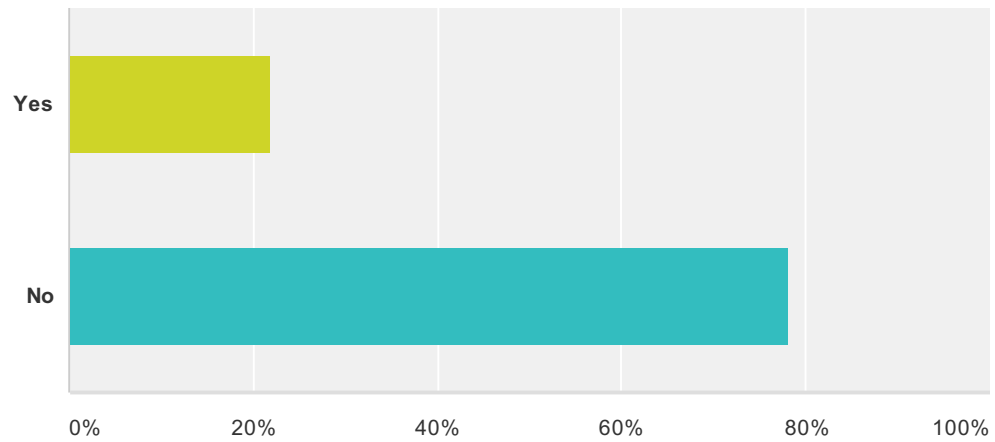
Answered: 40 Skipped: 9



Answer Choices	Responses	
Yes	15%	6
No, not yet	77.50%	31
No, we don't need one	7.50%	3
Total		40

**Q42 Does your organisation already have some experience with IPv6 applications? (eg. Mobile phone applications, Microsoft products, ...)**

Answered: 41 Skipped: 8

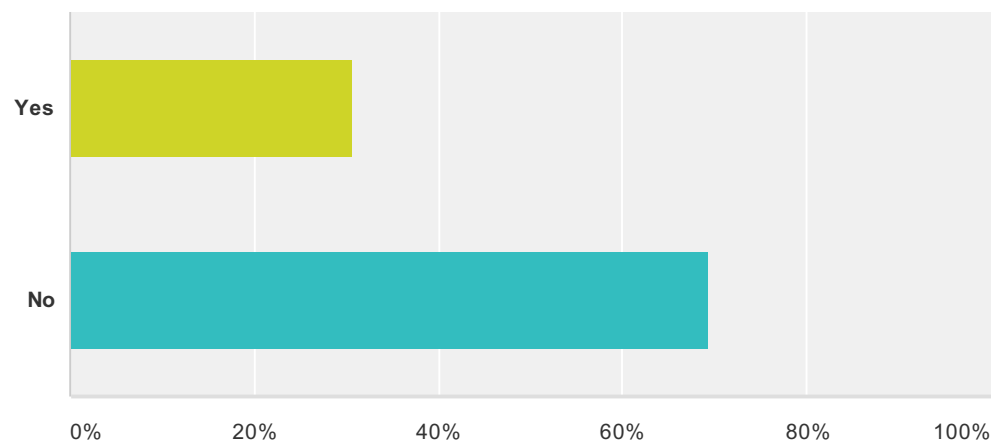


Answer Choices	Responses	
Yes	21.95%	9
No	78.05%	32
Total		41



**Q43 If your organisation already has allocated IPv6 address space, has it been configured it in (parts) of your network already?**

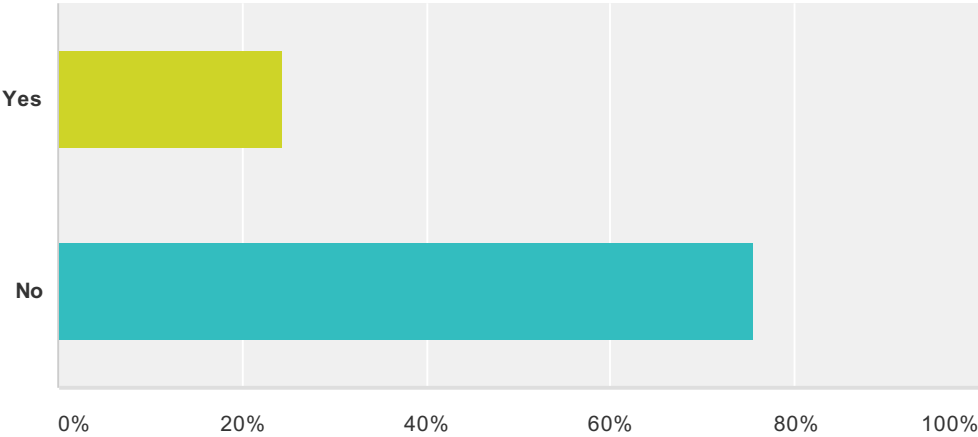
Answered: 39   Skipped: 10



Answer Choices	Responses	
Yes	30.77%	12
No	69.23%	27
Total		39

Q44 Has your organisation set up an IPv6 test bed already?

Answered: 41 Skipped: 8



Answer Choices	Responses	
Yes	24.39%	10
No	75.61%	31
Total		41