DNSSEC Survey Results

ccNSO Members Meeting

Los Angeles 30 October 2007

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Background

- Initiated after request from ccNSO Council to "/…/ find out what the cc community has done so far individually regarding DNSSEC, and to take part of their experiences on the matter."

  (ccNSO Council meeting minutes San Juan 27th June 2007)

- Survey conducted in September & October 2007

- Sent out to available email lists

Background

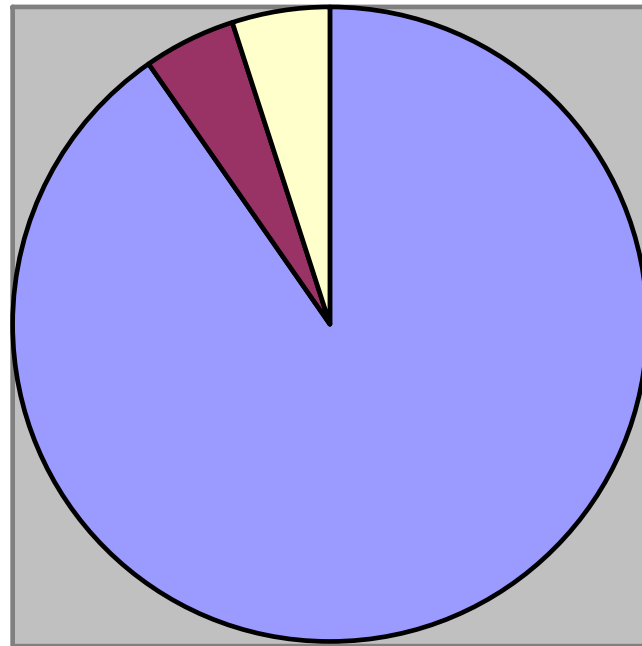- 61 replies received

Africa: 18
Asia-Pacific:19
Europe: 12
Latin America: 8
North America: 4

(following ICANN Regions)
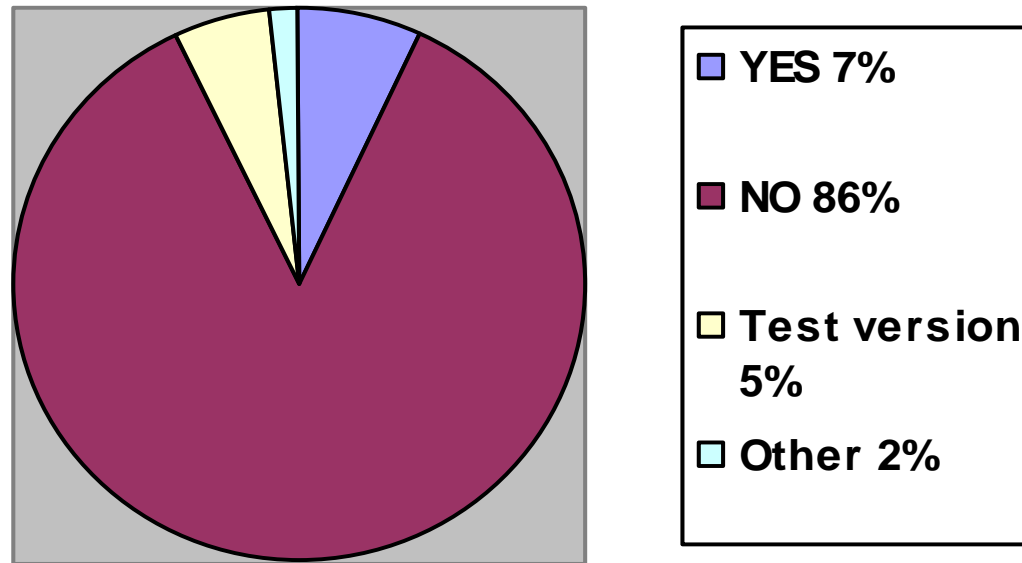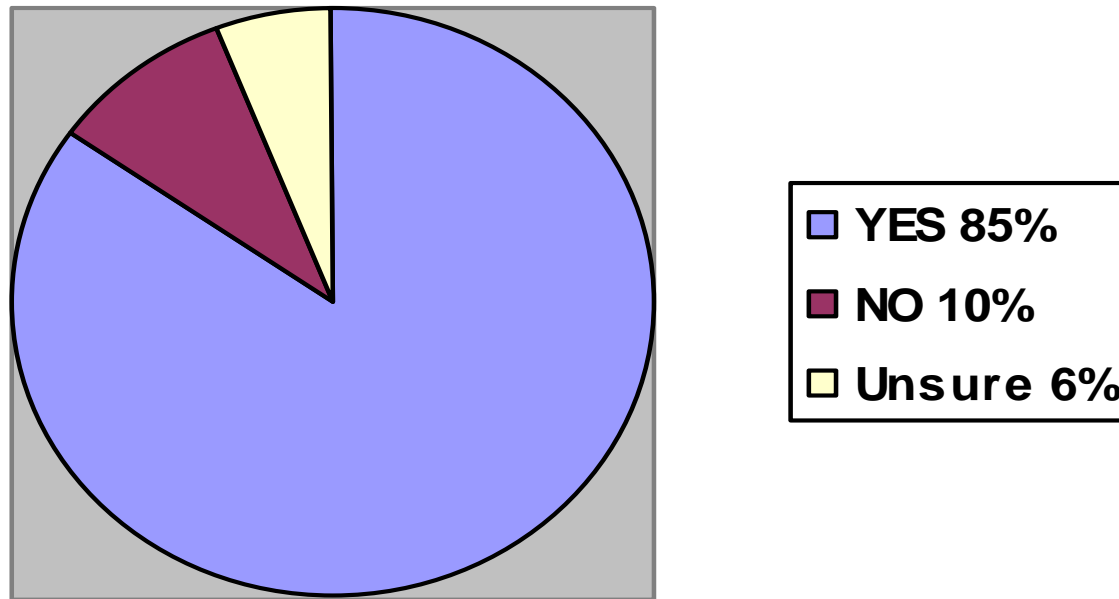
Do you know what DNSSEC is?

- ☐ YES 90%

- ☐ NO 5%

- ☐ I know what it is, but don't know how it works 5%
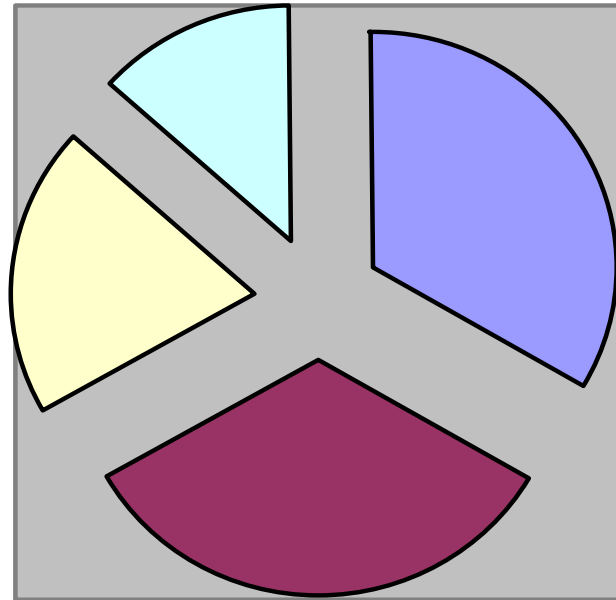
Has your registry implemented DNSSEC?

- YES 7%
- NO 86%
- Test version 5%
- Other 2%

If you have not implemented DNSSEC, do you plan to?

- ☐ YES 85%
- ☐ NO 10%
- ☐ Unsure 6%

If you have not, or do not intend to implement DNSSEC in the next three years, please briefly explain why you do not intend to do so:

Most frequently mentioned reasons:

- Lack of resources
- Waiting for DNSSEC to mature
- Other projects have higher priority
- Root Zone not signed

If you have implemented DNSSEC, please briefly describe the technical environment you use:

- Mostly: Own developed systems to help signing their zones, often using a combination of known software applications (BIND and/or NSD) on UNIX compatible platforms.

- Spectrum from Fully manual signing to Hardware Signing Modules

- The use of particular diagnostic tools was recommended, such as the 'drill' application.
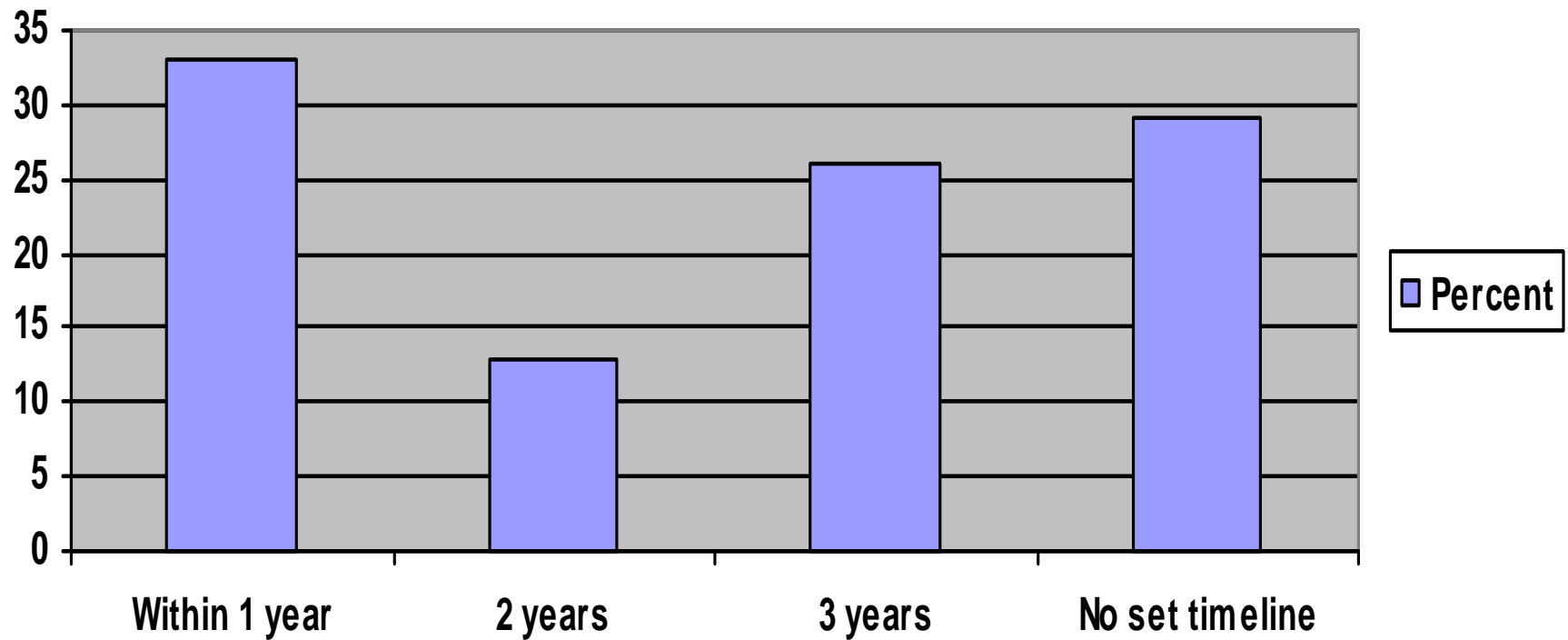
If you have implemented DNSSEC, please briefly describe your experience:

- Little to no adoption of DNSSEC by customers, either in production or in testing.

  Possible factors:

    - Limited end-user application support
    - Tool-chain immature and limited.

- Zone walking issue

- Key management procedures crucial and need careful thought.

- Much effort required to train staff and implement appropriate systems to properly support the technology.

If you are planning to implement DNSSEC, what is the planned timeline?

If you are planning to implement DNSSEC, please briefly describe the technical environment you use:

- Many: Not yet decided

- Most mentioned operating system/software: BIND, Linux

# Please describe how strategically important you consider DNSSEC to be:

Driver/Goals:

- Most mentioned: Improve DNS by ensuring the integrity of data transmission.

- Expectations that the technology can improve business confidence in the Internet

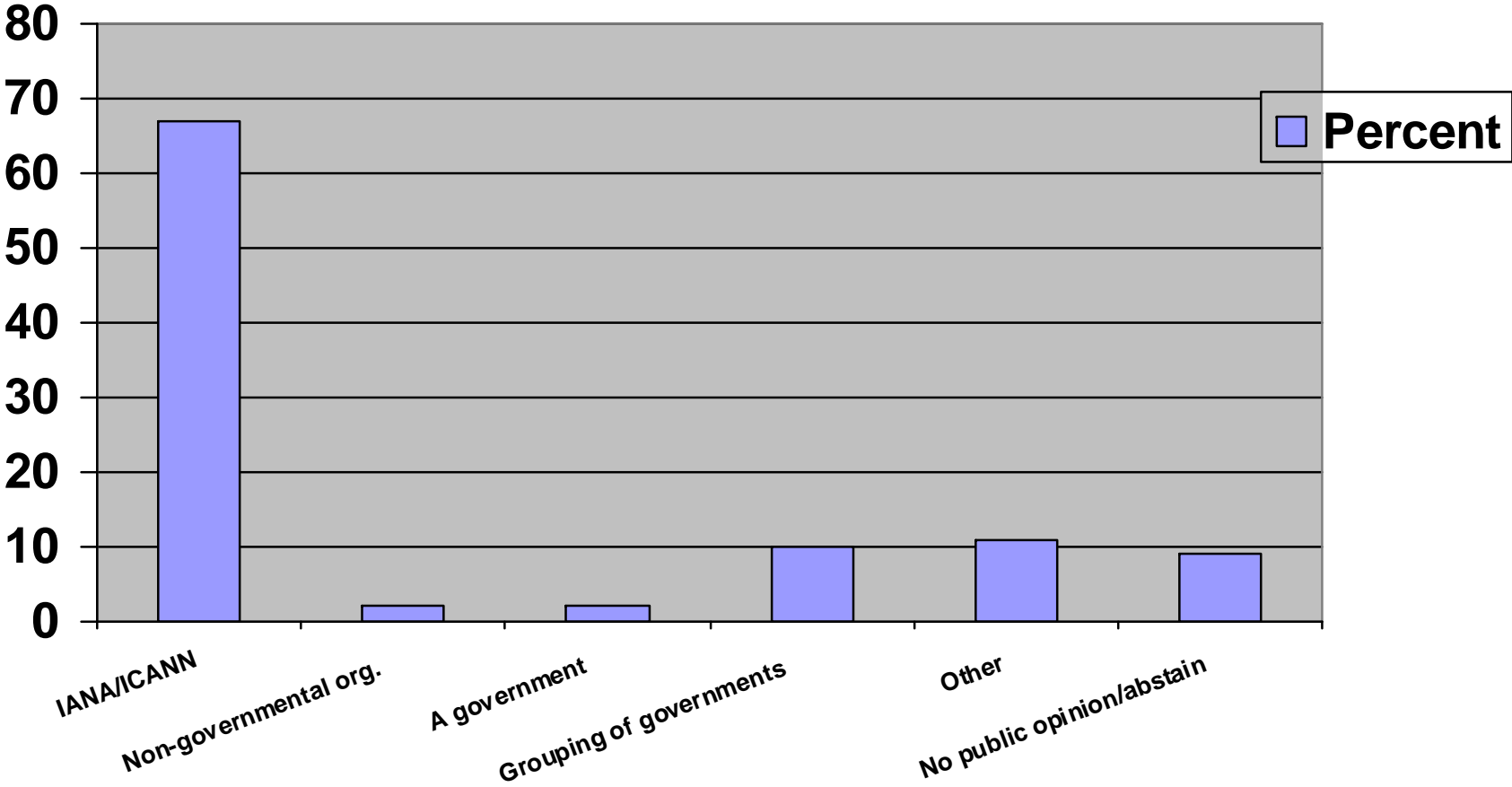- Help with fraudulent use of the Internet.

Obstacles:

- Root not signed

- Complexity of the technology – particularly for the end user

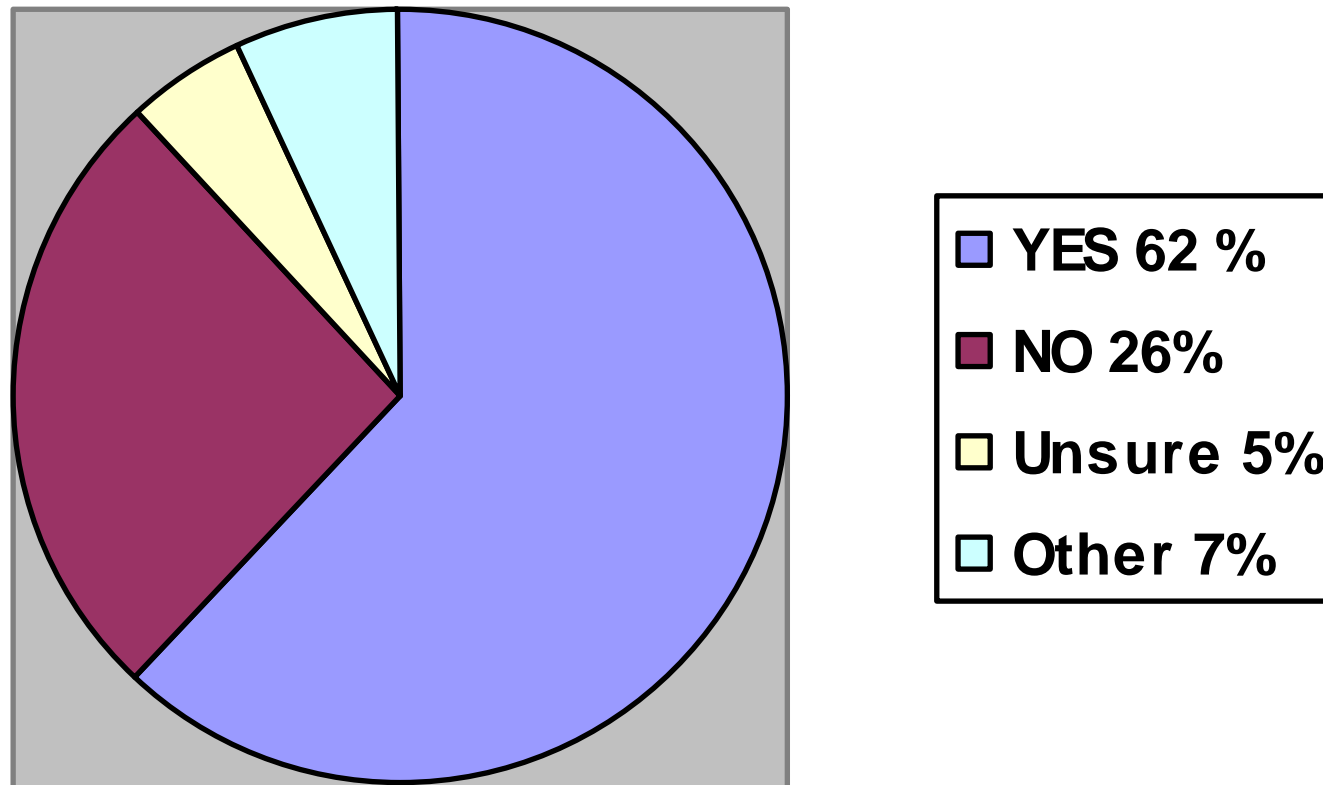- Technology may overly complicate registry-registrar relationships

Is it important to you that the DNS root zone is signed?

YES 84%

NO 14%

Don't know 2%
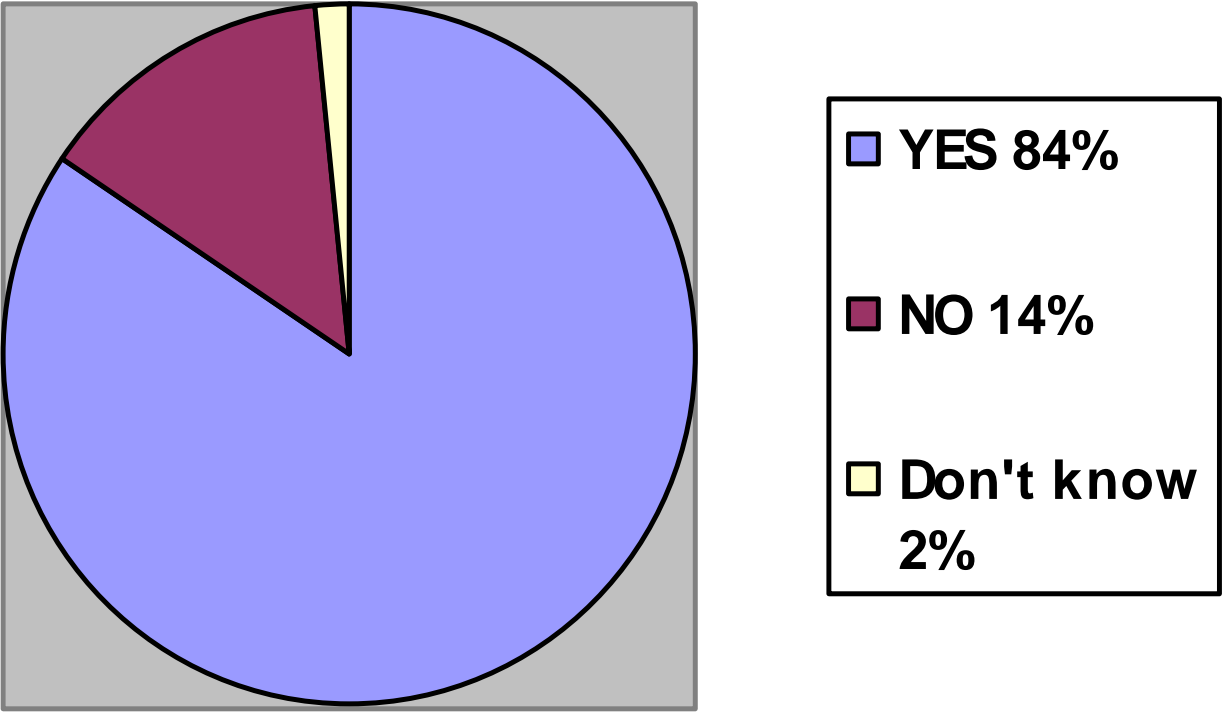
Who should be the signer of the DNS root zone?

Should the ccNSO actively promote the deployment of DNSSEC?

- YES 62 %
- NO 26%
- Unsure 5%
- Other 7%

How should the ccNSO promote DNSSEC?

- Regional DNSSEC dedicated workshops

- Push to get root zone signed

- Produce information brochure on different aspects of DNSSEC, make it understandable for non-technical people.

- Collect and share information regularly

Finally…

- Thank you .se!

- Survey results www.ccnso.icann.org
  (early November)

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