

ISC & DNSco Quarterly Update

16 October 2013

Welcome!

- Presentation – 45 minutes
- All attendees are on **mute**
- Q&A at the end of this webinar
 - 10 minutes
 - Use WebEx chat window to submit questions
 - In the interest of time, please email unanswered questions to info@isc.org
- A recording of this event will be sent to all registered attendees

Agenda

- ISC and DNSco
- Upcoming Releases
- Next Generation

Presenters

- Laura Hendriksen, VP Business Development
- Vicky Risk, Product Management
- Eddy Winstead, Senior Systems Engineer

Leadership Update

- Jeff Osborn
 - Executive Director of ISC
 - President of DNSco
- Vicky Risk
 - Product Management
 - Product Advocate
 - vicky@isc.org

ISC at a Glance

Sponsored R&D

Open Home Gateway
Open Source Routing



Public Benefit

Hosted@
F-Root
Open Source Software

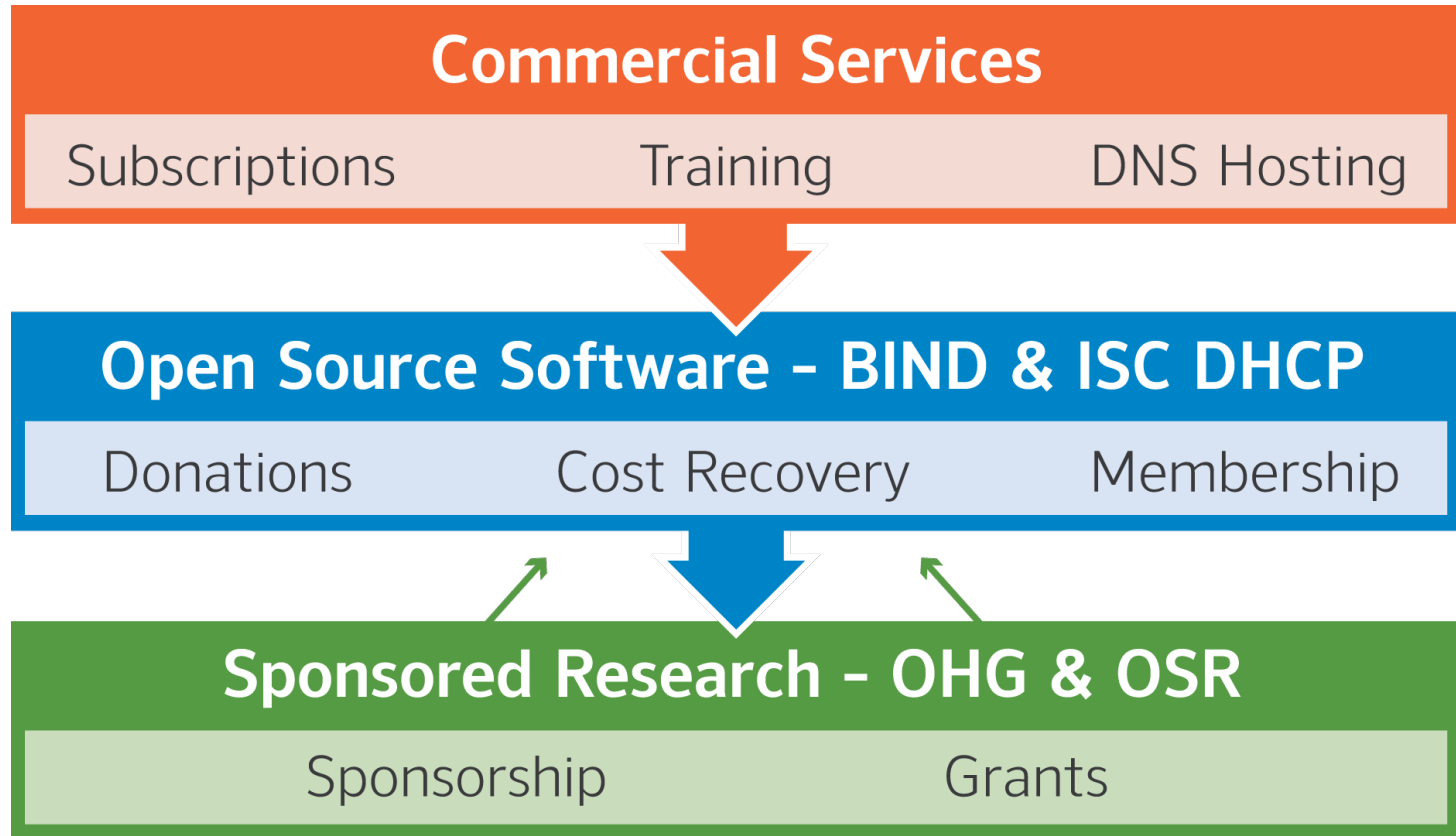


Commercial Services

Subscription Services
DNS Hosting
Training



Funding Model



User Profile Survey



Stats

- Survey went live on: 9/23/2013
- Duration (so far): 21 days
- Total Started Survey: 211
- Total Completed Survey: 147 (70%)

Upgrade Stats

Upgrade Frequency

Less than six months

39%

Once a year

31%

Upgrade Influence Factor

Latest bug fix

67%

New features

52%

DNS System Parameters

Design Parameters	Yes	No	N/A
Are you using an external database to manage DNS?	34%	65%	
Are you running DNSSEC?	34%	62%	
If not, do you plan on running DNSSEC?	49%	30%	21%
Have you implemented IPv6?	47%	51%	
If not do you plan on implementing IPv6?	46%	18%	36%

DHCP System Parameters

Design Parameters	Yes	No	N/A
Are you running Dynamic DNS (DDNS)?	37%	56%	
Have you implemented IPv6?	44%	50%	
If not do you plan on implementing IPv6?	48%	21%	31%
Do you use OMAPI?	13%	70%	17%

Add your Feedback

- Earn a Shirt
- We'd like your help to continue to improve BIND & ISC DHCP

<https://www.surveymonkey.com/s/isc-downloads>

Upcoming Events

- LISA: Nov 3-8, Washington, D.C.
 - Visit us at booth [#309](#)
- IETF 88 Vancouver Technology Demo
 - Open Home Gateway
 - Nextgen DHCP
- Webinars
 - November: RRL Classifier
 - December: DHCP 4.3

PRODUCT ROADMAP

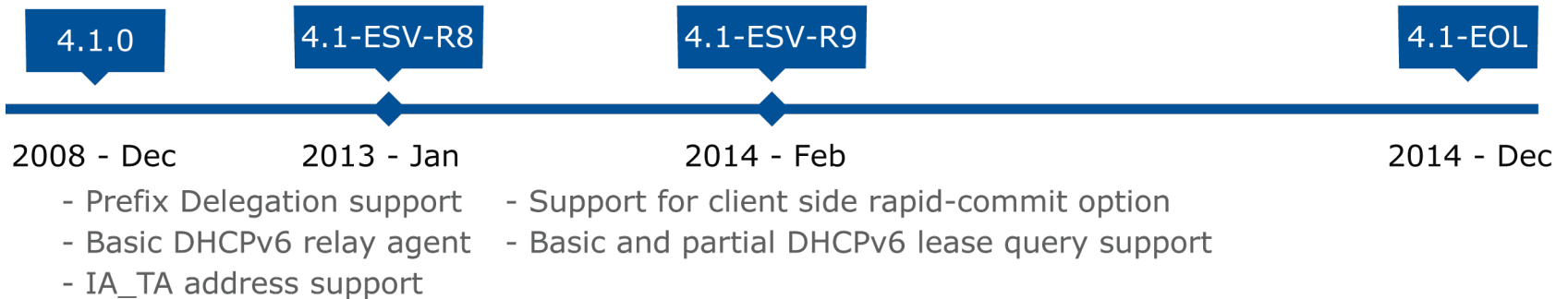
Eddy Winstead

POLL

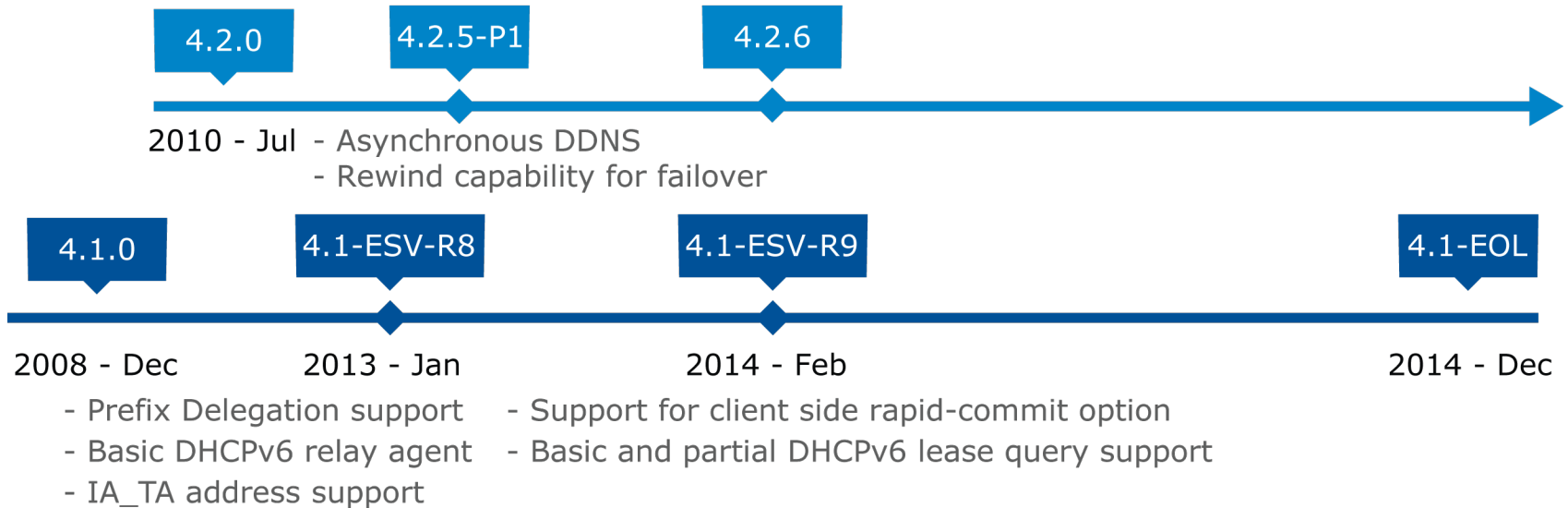
Do you use ISC DHCP?

- If so, what version are you running?
- If not, what are you using?

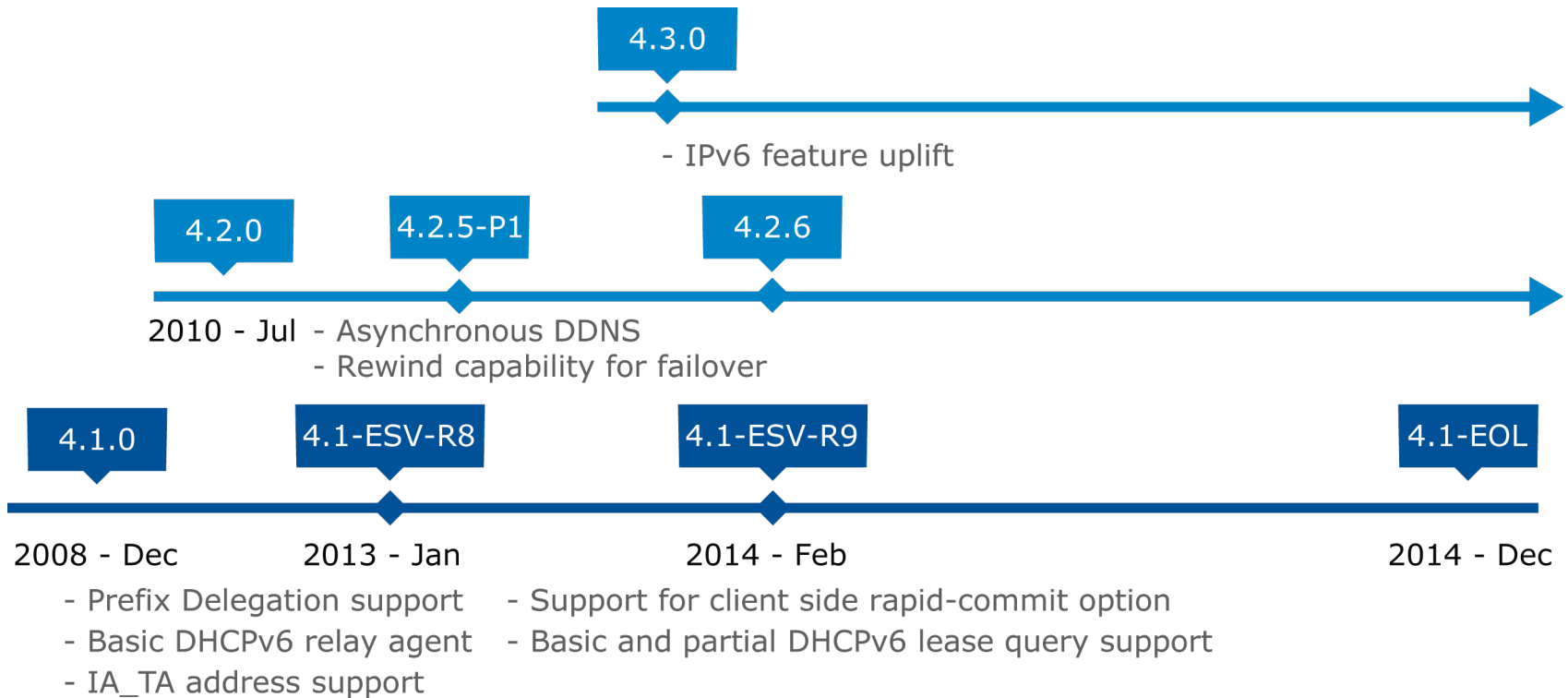
DHCP Releases



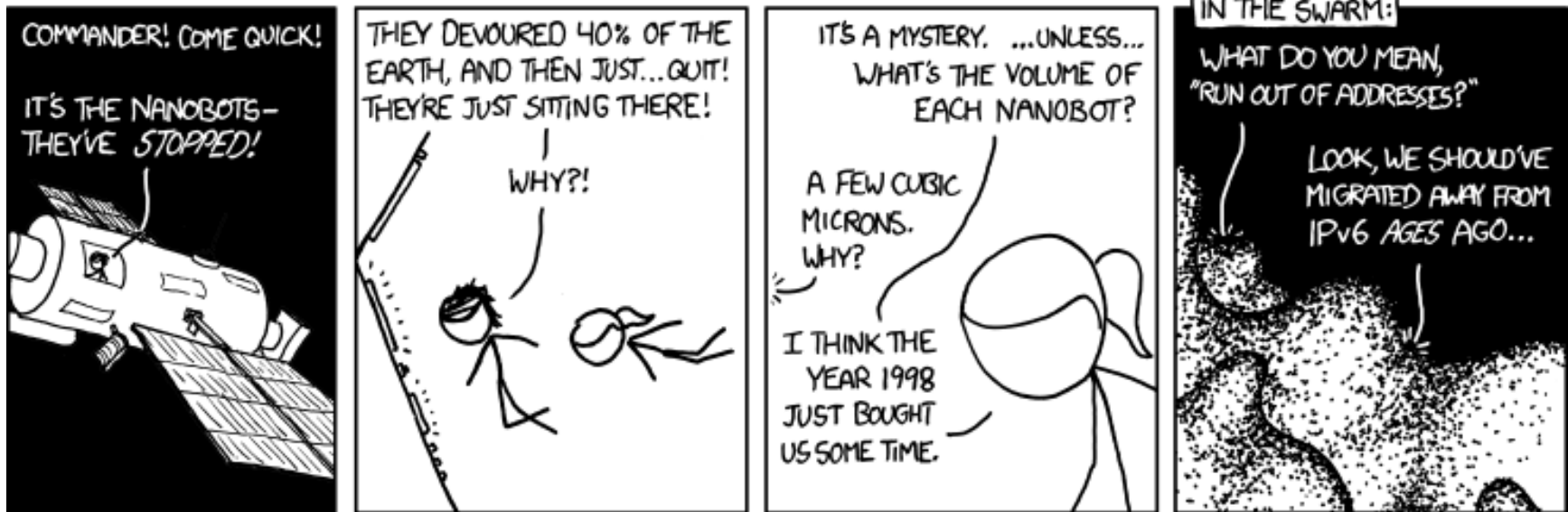
DHCP Releases



DHCP Releases



ISC DHCP 4.3



ISC DHCP 4.3 “IPv6 Uplift”

Alpha - Dec 2013

- DDNS Changes
 - Upgrade to newer standards, allows v4 and v6 clients to cooperate on naming
- OMAPI subclass control
- IPv6 feature uplift
 - Class support for IPv6
 - Allows access to IPv6 relay options
 - On expiry/on renew features
 - Implements existing data type options

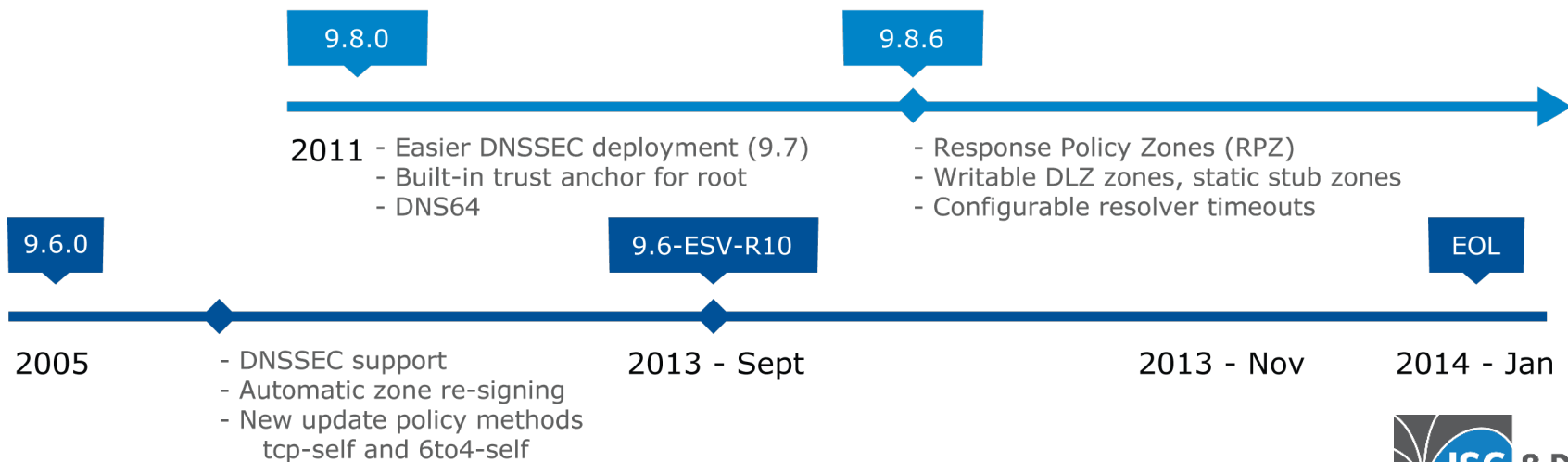
POLL

What BIND version(s) are you running?

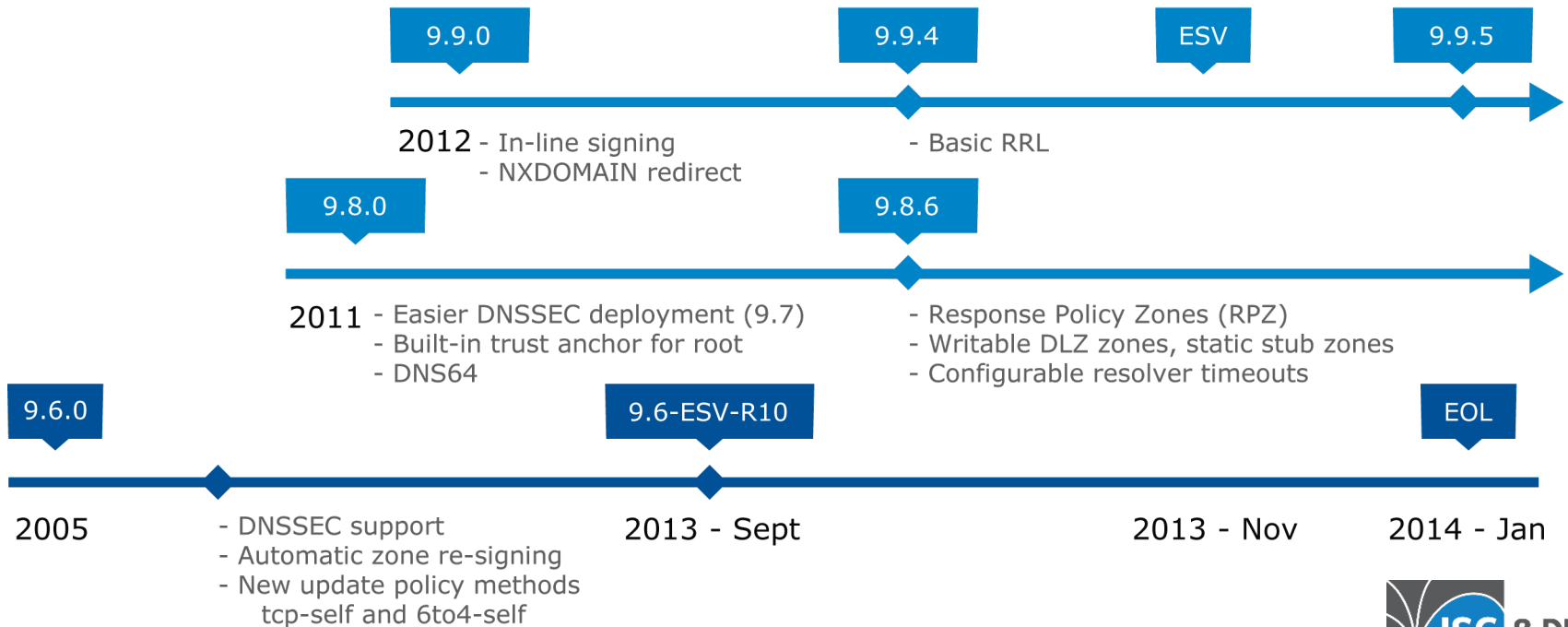
BIND Releases



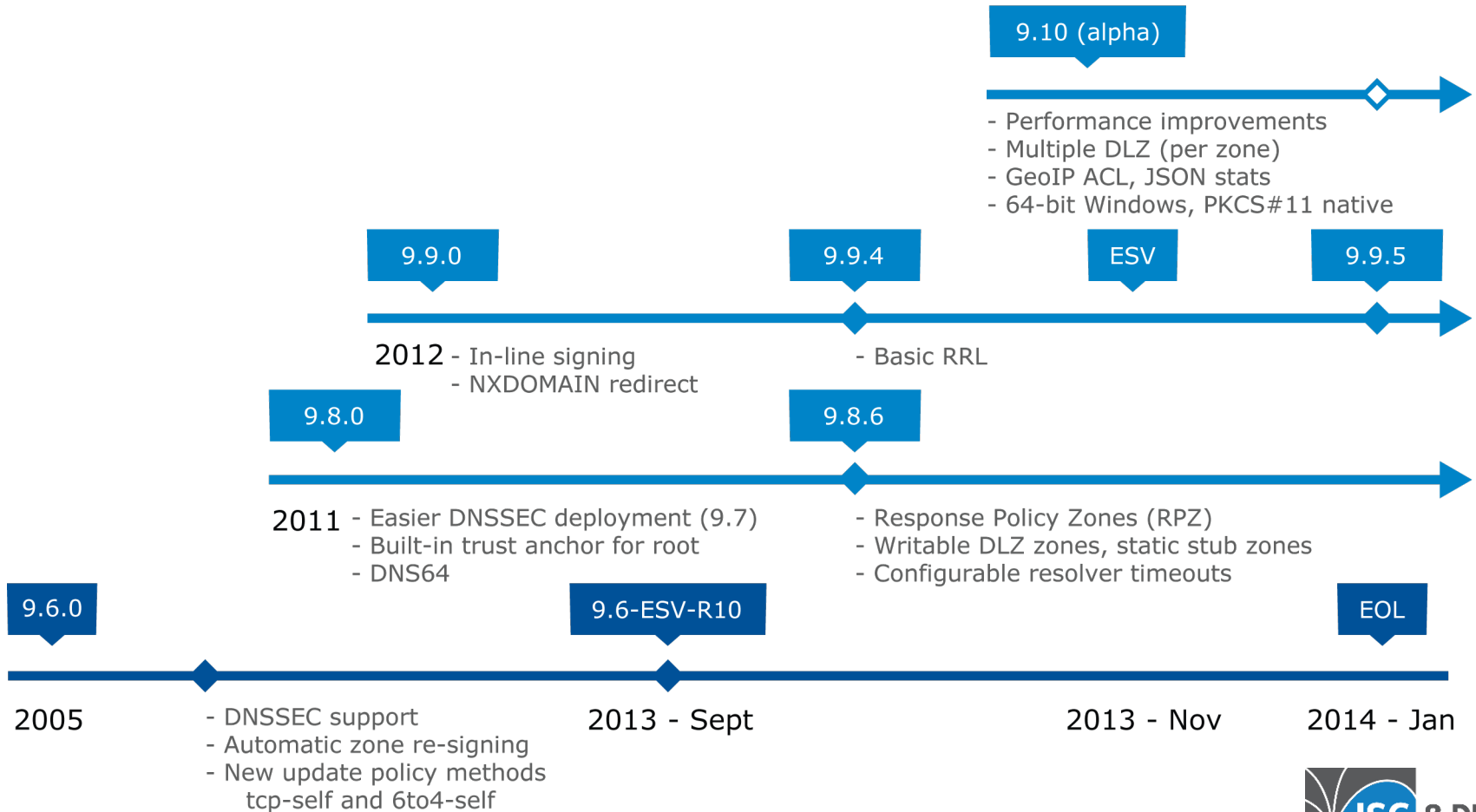
BIND Releases



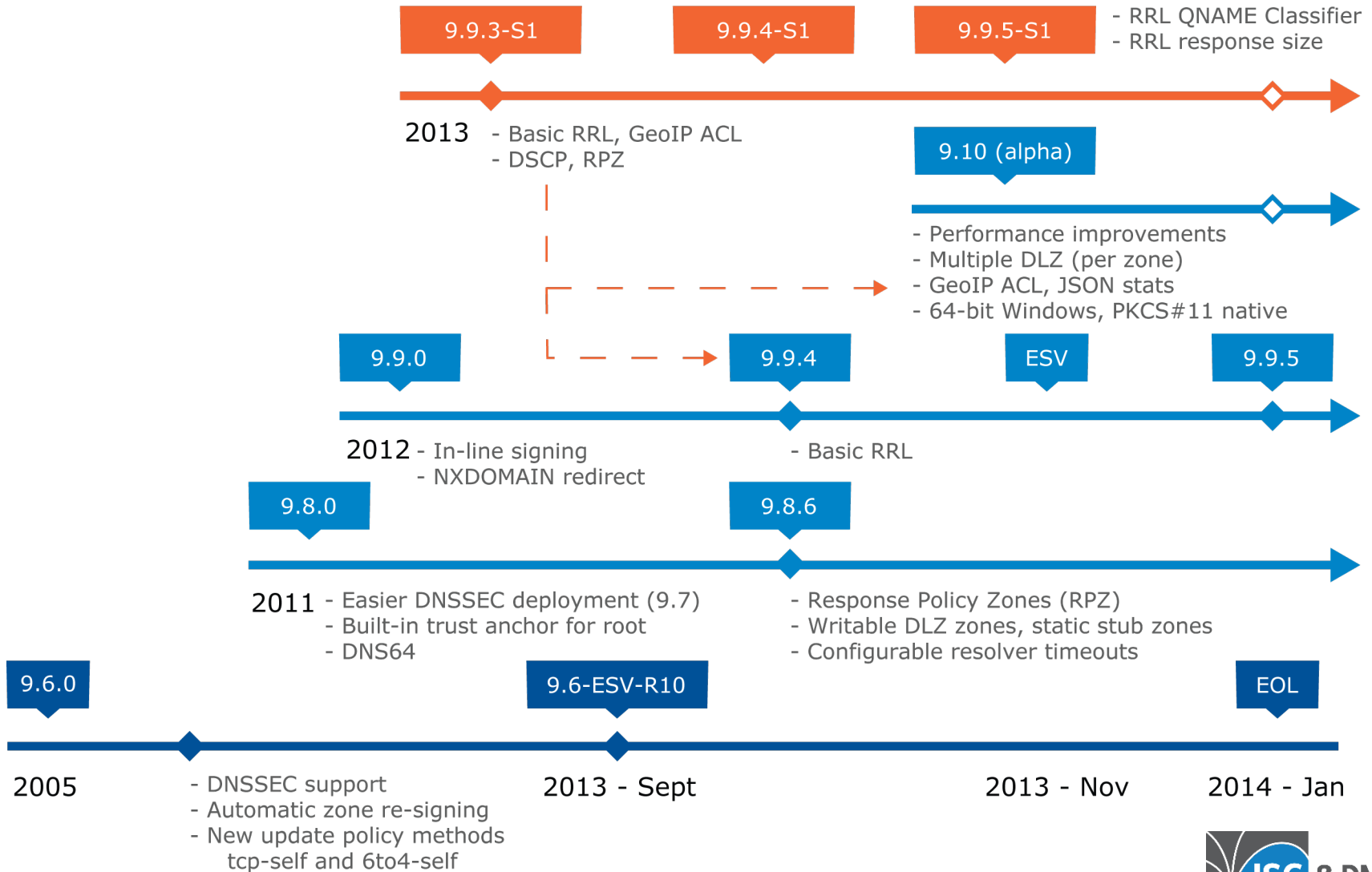
BIND Releases



BIND Releases

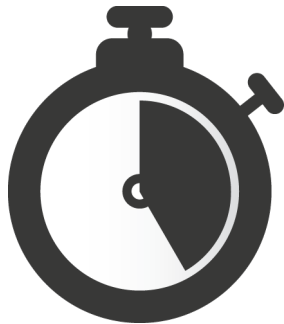


BIND Releases



BIND 9.10 in Alpha

- RPZ performance improvements
- ACL based on GeoIP
- Stats: JSON option
- 64-bit Windows support
- PKCS#11 native support
- “map” zone format (faster loading)
- “`rndc zonestatus`” per-zone status
- `Named- {check , compile} zone` can now read journal files
- Multiple DLZ databases now possible
 - Configured per zone
- Listens on IPv4 and IPv6 by default



Future BIND 9 Features

- BIND 9.n
 - RRL classifier, QNAME / RespSize
 - Negative trust anchor support
- BIND 9.n+1
 - EDNS0 client subnet identifier
 - DNS client cookies
 - EDNS0 server diagnostics
- More versions planned

Next Generation

- Formerly known as **BIND 10**



POLL

Have you downloaded or tried BIND 10?

Key Requirements

- New DNS server with separate Authoritative and Recursive
- Modular extensible platform with software bus and plug-in capability
- New DHCP server is such a plug-in
- Easy for users or OEMs to customize and extend
- Scalable & high performance

Authoritative DNS

- v1 available now with basic functionality
- Future modules will enable database back-end, customizable response routing, real-time intrusion detection, much more
- Extensible: software bus can traverse multiple processors for incremental capacity expansion

Next Gen DHCP Server

- CODENAME: KEA

- Kea PD engineering drop

Nov 2013

- DHCP & DHCPv6
 - Backends: MySQL database, experimental high performance in-memory backend
 - Hooks (ability to handle 3rd party libraries)
 - IPv6 Prefix Delegation support
 - Performance testing tool
 - Demo at IETF88 in Vancouver
 - Comcast sponsored

Next Generation News

bind10-users@isc.org

<https://lists.isc.org/mailman/listinfo/bind10-announce>

<https://lists.isc.org/mailman/listinfo/bind10-dev>

<http://bind10.isc.org/>

Research Project – OSR

Open Source Routing Forum

Anchor Sponsors

Google, Intel

Mission

To provide development and testing support to Quagga branches

Works to encourage combining branches

<http://opensourcerouting.org/>
<https://confluence.isc.org/display/osr/Home>

Research Project – OHG

Open Home Gateway Forum

Anchor Sponsor

Comcast

Mission

Lead evolution of new home
router and gateway platforms

Demo at IETF88 in Vancouver

<http://ohgf.org/>
<https://confluence.isc.org/display/OHGF/OHGF+Home>

QUESTIONS?

We want to hear from you!

- Come see us at LISA
- Check out demos at IETF
- Look for follow-up email with links to webinar recordings and this presentation
- Take the user profile survey

<https://www.surveymonkey.com/s/isc-downloads>