

# Seventh Annual BIND Forum Meeting

75<sup>th</sup> IETF Meeting  
Stockholm, Sweden July '09



# Agenda

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- Welcome & General update on ISC
  - Sue Graves, Client Services Manager
- BIND 9 Status & Road Map
  - Larissa Shapiro, Product Manager
- Roadmap for BIND 10
  - Shane Kerr, BIND 10 Programme Manager
- Questions



# BIND Forum Updates

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- BIND Forum grew by 10% this year.
- Forum memberships fund 30% of engineering costs
  - Support, Custom Development and Grants fund the balance of BIND 9 Development.*
- BIND 9.6 and 9.7 released in 2009
- Launched BIND 10 development effort
  - No BIND Forum funding used to date*
- Revised EOL Policy

# Forum Updates (continued)

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- New Hires
  - 2 Software Engineers
  - Bind 10 Programme Manager
  - Product Manager
- Training continues to grow
  - 2-Day DNSSEC Deployment Workshop
  - NaMeX chosen as EU Training site, Rome
- BF Newsletter to be published quarterly

# EOL Policy effective July 2009

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*Current support commitments  
will be honored*

- Move product to EOL 18 months after its introduction as a Production release
- Releases approximately every 9 months, so two versions will usually covered be under standard support.
- *Designate 'extended release version' and support it for 3 years*

# New ISC Services

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- DLV: DNS Lookaside Validation
  - DNSSEC key registry, production grade
  - New web User Interface
- SNS@ISC: Secondary DNS Service
  - SNS-PB: Best effort is no charge
  - SNS-COM: SLA offered for commercial customers
- SIE: Security Information Exchange
  - passive DNS monitoring: <https://sie.isc.org/>

# New ISC Product – CGN

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- Carrier Grade NAT / Dual Stack Lite
  - IPv6 NAT inside service provider networks supporting IPv4 user devices
- Early code available to interested parties upon registration in testing program

*First CGN Forum meeting*

*Thursday, 1-3pm,*

*Lilla Teatern Conference Room*

*For more information contact Suzanne Woolf*

*woolf@isc.org*

# BIND 9 Status & Roadmap

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Product Manager  
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# BIND 9 Releases

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- BIND 9.6.1 is the current release
- Status of 9.7
- Roadmap for 9.8



# BIND 9.6 – the *Security* release

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- DNSSEC:

- Full NSEC3 support
- Automatic DNSSEC zone re-signing
- Cryptoki cryptographic hardware support
- DNSSEC Zone Key Tool in contrib/zkt

- Security:

- Improved query port randomization performance
- Randomized server selection on queries

- Operational:

- Default TTL with nsupdate
- Report compile-time options (named -V)
- New default PID file location

# Maintenance Releases

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- BIND:
  - 9.4.4
  - 9.5.2
  - 9.6.2
- Betas in August
- Final releases in the fall



# BIND 9.7 Status: *dnssec for humans*

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- Operational DNSSEC Simplification:
  - Improved DNS key management
  - Configuration simplification (online keys, DDNS)
  - Fully automatic online signing
  - DLV configuration simplification
  - Trust anchor management (RFC 5011)
  - Usability improvements for Cryptoki (PKCS#11)

# BIND 9.7 Status (continued)

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- More DNSSEC
  - Documentation improvements
  - DNSSEC logging features
- Programming
  - DNSSEC-aware libdns API
- 9.7.1 and beyond
  - Debugging and tool enhancements

# BIND 9.7 Schedule

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- Planned Release Schedule
  - BIND 9.7.0a1 is publically available
  - BIND 9.7.0a2 available to BIND Forum July 27th
  - BIND 9.7.0a3 will be in late August
  - BIND 9.7.0b1 will be in September
  - *Production release in Nov 2009*



# BIND 9.7.0 Beta Program

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*The BIND 9.7 beta program is now underway!*

Submit test reports and bugs and get not just our appreciation and the knowledge that you're helping us build stronger code...

you also get a *t-shirt!*

Send mail to [larissas@isc.org](mailto:larissas@isc.org)

or subscribe to [bind-beta-response@lists.isc.org](mailto:bind-beta-response@lists.isc.org)



# 9.8 Roadmap

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- Database back-end support
- Multi-master
- Support additional HSM drivers
- **Suggestions?**

- *BIND 9.8.0 development will begin in November 2009.*

# Plans for BIND 10

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Programme Manager  
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# BIND 9: Where did it come from?

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- Designed to solve BIND 8 problems
- Heavy emphasis on security
- Reference implementation for DNS
- Multi-threaded model for scalability



# BIND 10: Why?

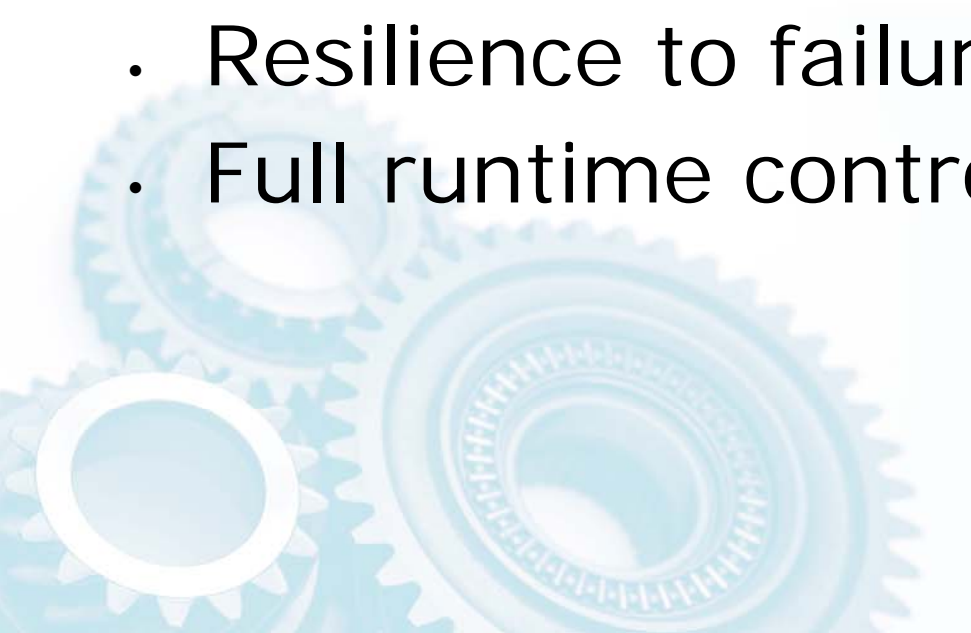
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- BIND 9 is almost 10 years old
- Computing world has changed, many decisions need to be re-visited
- DNS "marketplace" has changed, lots to learn from other products
- Need BIND architecture for the next 10+ years

# BIND 10: What?

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- Modularity
- Well-documented & defined APIs and libraries
- Customization
- Clusterization
- Resilience to failures
- Full runtime control



# BIND 10: Status

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- Project officially began 2009-04-01
- Funded by sponsors
  - initial set of generous TLDs:  
*<https://www.isc.org/bind10/sponsors>*
- 5-year development plan
- Y1 deliverable: authority-only server
- Public Trac site for interested developers or users: *<https://bind10.isc.org>*

# BIND 10 and BIND Forum

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- Current BIND Forum funds BIND 9 maintenance and development
- BIND 10 has its own sponsors
  - *We are always looking for more ...*
- When BIND 10 is production ready, it will become a BIND Forum supported project

***Thank you for your support!***



# Your turn ...

## Questions? Comments?

After the meeting, if you have more questions  
please contact Sue Graves:

[sgraves@isc.org](mailto:sgraves@isc.org)