# 1 Release Notes for BIND Version 9.17.0

#### 1.1 Introduction

BIND 9.17 is an unstable development release of BIND. This document summarizes new features and functional changes that have been introduced on this branch. With each development release leading up to the stable BIND 9.18 release, this document will be updated with additional features added and bugs fixed.

Please see the file CHANGES for a more detailed list of changes and bug fixes.

# 1.2 Supported Platforms

To build on UNIX-like systems, BIND requires support for POSIX.1c threads (IEEE Std 1003.1c-1995), the Advanced Sockets API for IPv6 (RFC 3542), and standard atomic operations provided by the C compiler.

The <code>libuv</code> asynchronous I/O library and the OpenSSL cryptography library must be available for the target platform. A PKCS#11 provider can be used instead of OpenSSL for Public Key cryptography (i.e., DNSSEC signing and validation), but OpenSSL is still required for general cryptography operations such as hashing and random number generation.

More information can be found in the PLATFORMS.md file that is included in the source distribution of BIND 9. If your compiler and system libraries provide the above features, BIND 9 should compile and run. If that isn't the case, the BIND development team will generally accept patches that add support for systems that are still supported by their respective vendors.

#### 1.3 Download

The latest versions of BIND 9 software can always be found at https://www.isc.org/download/. There you will find additional information about each release, source code, and pre-compiled versions for Microsoft Windows operating systems.

## 1.4 Notes for BIND 9.17.0

#### 1.4.1 Known Issues

• UDP network ports used for listening can no longer simultaneously be used for sending traffic. An example configuration which triggers this issue would be one which uses the same <code>address:port</code> pair for listen-on(-v6) statements as for notify-source(-v6) or transfer-source(-v6). While this issue affects all operating systems, it only triggers log messages (e.g. "unable to create dispatch for reserved port") on some of them. There are currently no plans to make such a combination of settings work again.

#### 1.4.2 New Features

When a secondary server receives a large incremental zone transfer (IXFR), it can have a negative
impact on query performance while the incremental changes are applied to the zone. To address
this, named can now limit the size of IXFR responses it sends in response to zone transfer requests.
If an IXFR response would be larger than an AXFR of the entire zone, it will send an AXFR response
instead.

This behavior is controlled by the max-ixfr-ratio option - a percentage value representing the ratio of IXFR size to the size of a full zone transfer. The default is 100%. [GL #1515]

## 1.4.3 Feature Changes

- The system-provided POSIX Threads read-write lock implementation is now used by default instead of the native BIND 9 implementation. Please be aware that glibc versions 2.26 through 2.29 had a bug that could cause BIND 9 to deadlock. A fix was released in glibc 2.30, and most current Linux distributions have patched or updated glibc, with the notable exception of Ubuntu 18.04 (Bionic) which is a work in progress. If you are running on an affected operating system, compile BIND 9 with --disable-pthread-rwlock until a fixed version of glibc is available. [GL !3125]
- The rndc nta -dump and rndc secroots commands now both include validate-except entries when listing negative trust anchors. These are indicated by the keyword permanent in place of the expiry date. [GL #1532]

# 1.4.4 Bug Fixes

 Fixed re-signing issues with inline zones which resulted in records being re-signed late or not at all

## 1.5 License

BIND 9 is open source software licensed under the terms of the Mozilla Public License, version 2.0 (see the LICENSE file for the full text).

The license requires that if you make changes to BIND and distribute them outside your organization, those changes must be published under the same license. It does not require that you publish or disclose anything other than the changes you have made to our software. This requirement does not affect anyone who is using BIND, with or without modifications, without redistributing it, nor anyone redistributing BIND without changes.

Those wishing to discuss license compliance may contact ISC at https://www.isc.org/contact/.

#### 1.6 End of Life

BIND 9.17 is an unstable development branch. When its development is complete, it will be renamed to BIND 9.18, which will be a stable branch.

The end of life date for BIND 9.18 has not yet been determined. For those needing long term support, the current Extended Support Version (ESV) is BIND 9.11, which will be supported until at least December 2021.

See https://kb.isc.org/docs/aa-00896 for details of ISC's software support policy.

#### 1.7 Thank You

Thank you to everyone who assisted us in making this release possible.