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## 1.4 dnsjava 2.0.3

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```
* /opt/ws_local/PERMITS_SQL/1073902225_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-2.0.3/org/xbill/DNS/ZoneTransferIn.java
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```
* /opt/ws_local/PERMITS_SQL/1073902225_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-2.0.3/tests/org/xbill/DNS/NSAP_PTRRecordTest.java
* /opt/ws_local/PERMITS_SQL/1073902225_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-2.0.3/tests/org/xbill/DNS/Utils/base16Test.java
* /opt/ws_local/PERMITS_SQL/1073902225_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-
```

2.0.3/tests/org/xbill/DNS/SingleCompressedNameBaseTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/ARecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MRRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/APLRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/OptionsTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/SerialTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/KEYRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/SectionTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DSRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DNAMERRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/FormattedTimeTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/Utils/base64Test.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/RTRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/Utils/hexdumpTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DNSInputTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/RRsetTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MFRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/FlagsTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/AddressTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/TokenizerTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/CompressionTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/KEYBaseTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/Utils/HMACTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/HINFORecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-

2.0.3/tests/org/xbill/DNS/ReverseMapTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/OpcodesTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/RcodeTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/A6RecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DNSOutputTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MnemonicTest.java  
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2.0.3/tests/org/xbill/DNS/AAAARecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DNSKEYRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MGRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/DCClassTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/AFSDBRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/TTLTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MBRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/CNAMERecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/HeaderTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/TypeTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/SOARRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/GPOSRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/SetResponseTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/ExtendedFlagsTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/SingleNameBaseTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MessageTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/NSRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/RecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-

2.0.3/tests/org/xbill/DNS/MDRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/U16NameBaseTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/ExceptionTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/EmptyRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/KXRecordTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/NameTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/tests/org/xbill/DNS/MXRecordTest.java

No license file was found, but licenses were detected in source scan.

// Permission to use, copy, modify, and distribute this software for any  
// purpose with or without fee is hereby granted, provided that the above  
// copyright notice and this permission notice appear in all copies.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-  
2.0.3/org/xbill/DNS/Tokenizer.java

No license file was found, but licenses were detected in source scan.

11/28/2006

- 2.0.3 released

11/27/2006

- The Zone.fromXFR() method should be able to create zones  
from AXFR-style IXFR responses.  
(Bill Kuker <bkuker@users.sourceforge.net>)

10/25/2006

- Make the routines that convert between the DNS and standard Java  
representations of DSA signatures public.  
(suggested by Klaus Malorny <Klaus.Malorny@knipp.de>)

8/3/2006

- Add a TSIG constructor that takes an algorithm as a String.  
- Add support to TSIG.fromString() for specifying an algorithm.

7/30/2006

- When converting a PublicKey to a DNS record, allow the algorithm  
to be specified, as RSA keys can be either of the RSA-SHA1 or  
RSA-MD5 algorithms (based on a patch from  
Eric <ginipginob@users.sourceforge.net>)  
- When converting a PublicKey to a DNS record, allow the type (KEY  
or DNSKEY) to be specified.



- Update the DNSSECVerifier code to use DNSKEY records, not KEY records.

7/30/2006

- Added support for parsing the output of ipconfig in French .  
(Frederic Bazin <fbazin@users.sourceforge.net>)

7/30/2006

- If both "search" and "domain" lines are present in a resolv.conf file, the domain line should be ignored.

7/26/2006

- Add support for the SPF record type.

7/21/2006

- DNSSEC.digestRRset could digest records in the wrong order.  
(reported by David Blacka <davidb@verisignlabs.com> and  
Mahendra Jain <Majain@verisign.com>)

6/26/2006

- 2.0.2 released.

6/22/2006

- Add support for the IPSECKEY record type.

5/18/2006

- The result of a Lookup that involves a CNAME should include the queried name as one of the aliases, not the CNAME target.  
(Jon Lachelt <jon.lachelt@hp.com>)

2/13/2006

- Loading zones containing RRsets with multiple records didn't work.  
(reported by Olafur Gudmundsson" <ogud@ogud.com>)

1/24/2006

- AXFR requests could leak file descriptors if the connection failed. (Can Bican <can@bican.net>)

11/30/2005

- Add a Resolver.setTimeout(int secs, int msecs) method.  
(requested by Dmitry Isakbayev) <isakdim@users.sourceforge.net>)

11/30/2005

- 2.0.1 released.

11/11/2005

- The InetAddress returned by Address.getByName() should have their hostname copied from the input parameter.

(reported by Praveen Tammana <praveen.public@gmail.com>)

11/7/2005

- Update remaining DNSSEC code to be compliant with the current spec.

11/6/2005

- Add a Resolver.setEDNS(int level, int payloadSize, int flags, List options) method, to allow a Resolver to automatically set the DO flag, as well as future EDNS features.

(requested by Rick Wesson <wessorh@ar.com>)

10/25/2005

- The Master(InputStream in, Name origin) constructor should not always fail.
- Correctly handle the case where reading a Master from an InputStream would throw a NullPointerException if a \$INCLUDE file wasn't found.

(reported by Lars Petrus <Lars.Petrus@nominum.com>)

8/22/2005

- Add Address.getByAddress(String) and Address.getByAddress(String, family).

7/21/2005

- Zone.findExactMatch() would throw a NullPointerException if the name didn't exist.

(reported by Hans Zandbelt <Hans.Zandbelt@telin.nl>)

7/19/2005

- Add support for binding clients to local addresses when using a SimpleResolver. Also add the -b option to the dig program to test this. (based on a patch by Bruno Dillenseger)

7/5/2005

- Add support to ResolverConfig for using the undocumented sun.net.dns.ResolverConfiguration class to determine the list of nameservers and search path; make this the default when it works (Yannick Meudal <yannick@meudal.net>).

6/16/2005

- The inbound zone transfer code failed to treat port 0 as the default as it claimed to. (Bill Kuker <wckits@rit.edu>)

6/15/2005

- When doing a zone transfer with a SimpleResolver object, the timeout was not properly obeyed.

(reported by Peter Bryant <peter@pingability.com>)

6/5/2005

- Explicitly register record type implementations instead of using reflection; this should prevent hard to diagnose problems resulting from partial compilation.

5/31/2005

- 2.0.0 released.

5/16/2005

- Fix the code to deal with TTL 0 data in the Cache.

5/15/2005

- Add unit tests for many classes. The unit tests are located in the tests directory, which mirrors the org.xbill.DNS hierarchy. (Matt Rutherford <rutherfo@cs.colorado.edu>)

5/7/2005

- Fix several problems with empty names. (Matt Rutherford <rutherfo@cs.colorado.edu>)

4/23/2005

- As per RFC 2181, the maximum allowed TTL value is 0x7FFFFFFF. Change TTL.parseTTL() to reflect this by silently clamping larger 32 bit values.

4/22/2005

- Attempting to get the name/type/class/ttl of an empty RRset throws an exception.

4/21/2005

- Remove RRset.getSecurity()/setSecurity().

4/16/2005

- Change the internal representation of empty records (that is, records in the question section of a message or meta-records used in dynamic update).
- Minor cleanups to the Mnemonic class. (Matt Rutherford <rutherfo@cs.colorado.edu>)

4/3/2005

- Change the Cache from being periodically cleaned to being size-bounded. (based on a patch from several years ago from Joseph Shraibman <jks@iname.com>).
- Remove the FindServer class.
- Added a Name Service Provider interface (dns.dnsjava). (based on code from Paul Cowan <pwc21@yahoo.com>)

4/1/2005

- Use java.nio classes for sockets internally, which provide a

- number of improvements, most visibly improved timeouts.
- Remove deprecated dns class.
- Simplify TSIG initialization; remove functions that should have never existed.
- Remove Cache.setVerifier() and Cache.setSecurePolicy(). There should be a way of enabling DNSSEC, but the existing code doesn't work.
- Change the Zone constructors/factory methods to be consistent.

3/29/2005

- Use java.net.InetAddress for IPv6 addresses rather than a custom class.

3/20/2005

- Fix several bugs in ResolverConfig on Windows.  
(Brian McBarron <bmcarron@users.sourceforge.net>)

3/15/2005

- Clean up the synchronization in the RRset class  
(reported by Daniel Jensen <daniel.jensen@savvis.net>)

3/8/2005

- Support the BIND misfeature of loading zones with no explicit TTL by using the SOA minimum field.

3/7/2005

- 1.6.6 released.

3/6/2005

- \$GENERATE statements should obey the start field.

3/1/2005

- Add support for HMAC-SHA1 and HMAC-SHA256 TSIG algorithms.  
(suggested by Olafur Gudmundsson <ogud@ogud.com>)

2/8/2005

- Add infrastructure for parsing the output of ipconfig on non-English version of windows, and add support for German and Polish. (based on a patch by Piotr Kochanski)

2/7/2005

- Add Options.refresh() (based on a patch from Th Kuhne)
- Add the ResolverConfig class, which is largely based on the FindServer class, except that it's not all static methods.  
Add the ability to refresh the current ResolverConfig, and make FindServer use ResolverConfig.
- Add Lookup.refreshDefault (based on a patch from Th Kuhne)
- Truncated messages aren't guaranteed to parse properly, so shouldn't

- throw exceptions. (reported by Caleb Richardson <caleb@everyone.net>)
- Work around a TCP bug in whatever broken nameserver Enom is using.  
(reported by Caleb Richardson <caleb@everyone.net>)

2/4/2005

- 1.6.5 released.
- Records of an unknown type and length 0 weren't handled properly.  
(reported by Olafur Gudmundsson <ogud@ogud.com>)
- Fixed a bug in \$INCLUDE handling.  
(Christian Sepulveda <christian.sepulveda@nominum.com>)

2/3/2005

- The Lookup.run() method should be usable more than once on a Lookup object.  
(reported by Joseph Shraibman <jks@iname.com>)

10/31/2004

- Add partial IPv6 support to the ReverseMap class.  
(based on a patch from Th Kuhne)

7/7/2004

- Implement the \$GENERATE master file directive.

6/28/2004

- Canonicalizing a name created with the Name(Name src, int n) constructor caused an exception.  
(based on a patch from Nigel Tamplin <nigel@metica.com>)
- Concatenating names caused an exception when the prefix was created with the Name(Name src, int n) constructor.  
(reported by Nigel Tamplin <nigel@metica.com>)

6/22/2004

- The DNSSEC digesting code shouldn't throw ClassCastExceptions.  
(reported by Mike StJohns <Mike.StJohns@nominum.com>)
- The label count in a generated SIG/RRSIG record was off by one.  
(Mike StJohns <Mike.StJohns@nominum.com>)

6/8/2004

- Rcode 4 is NOTIMP, not NOTIMPL.

6/5/2004

- Fixes to LOCRecord.

6/3/2004

- 1.6.4 released.

5/26/2004

- Properly handle text mnemonics in KEY records.

- Add support for the APL record type.

5/25/2004

- Fix a bug where parsing the text format of an NSEC record incorrectly parsed one token too many.

5/18/2004

- 1.6.3 released.

5/11/2004

- Don't store the number of labels in a Name in a byte, as the maximum value (128) cannot be stored in a byte.

5/9/2004

- Add support for options within an OPTRecord (loosely based on a patch from Madhu Siddalingaiah <madhu@madhu.com>)

4/18/2004

- Add support for the SSHFP record type.  
- Fix a bug in the zone code which would cause record lookups to fail.

4/10/2004

- When parsing pasted files, handle the fact that class and ttl may be in either order.

4/8/2004

- The opcode field in the DNS header was incorrectly parsed; this would affect messages with opcodes other than QUERY.  
(Madhu Siddalingaiah <madhu@madhu.com>)

3/20/2004

- 1.6.2 released.  
- Lookups could return "referral" instead of "host not found" in some cases.

3/18/2004

- Fix NullPointerExceptions caused by bad empty Record handling.  
(reported by Dharmveer Jain <dharmveer\_jain@yahoo.com>)

3/16/2004

- 1.6.1 released.  
- When loading master files with \$INCLUDE statements, the included files should be opened relative to the current directory, not the directory of the parent file.

3/12/2004

- Make it possible to use a Tokenizer without leaving files open.

3/4/2004 - 3/12/2004

- Add support for more record types (AFSDB, GPOS, ISDN, MB, MD, MF, MG, MINFO, MR, NSAP, NSAP-PTR, NULL, PX, RT, WKS, X25).

3/3/2004

- Cached NXDOMAINs were ignored, which caused extra queries to be sent (reported by Damon Hart-Davis <d@hd.org>).

2/25/2004

- Attempting to load a zone without specifying an origin failed.

2/24/2004

- 1.5.2 released.

2/3/2004

- Message.isSigned() should return true if we signed the Message with a TSIG.  
(reported by Shobana Sampath <shobanas@cisco.com>)
- Implement NSEC, DNSKEY, and RRSIG record types. (loosely based on a patch from David Blacka <davidb@verisignlabs.com>).
- Change the representations of sections, rcodes, opcodes, flags, and credibility to int.

1/28/2004

- Attempt to better deal with OutOfMemoryErrors when creating threads during the resolution process.  
(reported by Joseph Shraibman <jks@iname.com>)

1/27/2004

- Change the representation of a TSIG error from a byte to an int.
- Improve error messages from failed Lookups; treat SERVFAIL as a temporary failure, not an unrecoverable error.  
(Joseph Shraibman <jks@iname.com>)

1/16/2004

- The master file reader should propagate TTLs through \$INCLUDE statements. (David Blacka <davidb@verisignlabs.com>)

1/12/2004

- Add a MANIFEST to the jar file containing implementation name and version. (Harel Efraim <harel.efraim@nominum.com>)

1/11/2004

- Fix a couple minor bugs found by FindBugs  
(<http://www.cs.umd.edu/~pugh/java/bugs/>)

1/8/2004

- 1.5.1 released.

- LOC records weren't parsed correctly.  
(reported by Harel Efraim <harel.efraim@nominum.com>)
- Lines with only whitespace in master files should be ignored.

12/15/2003

- TTLs weren't handled properly in the master file parser.  
(Jack Tavares <tavares@drizzle.com>)

12/11/2003

- 1.5.0 released.

12/8/2003

- Change to the BSD license.
- Replace the deprecated Name(String) and Name(String, Name) constructors with new versions that properly return exceptions.

12/6/2003

- Make the J2SE javadoc link a property in build.xml. (Ville Skytt)

11/24/2003

- Lookup should check that the name, type, and class in the question section of a response match that of the query.
- SimpleResolver should check that the message id of the response is the same as the message id of the query. On a sufficiently busy client, sockets can be reused fast enough that late responses can come in, and should be ignored.  
(seen by Joseph Shraibman <jks@iname.com>)

11/17/2003

- The Lookup code didn't handle CNAMEs pointing at nonexistant names.  
(reported by Joseph Shraibman <jks@iname.com>)

11/11/2003

- Store a weak reference to the Cache in the CacheCleaner thread, and kill the thread when the Cache is finalized.  
(suggested by Joseph Shraibman <jks@iname.com>)
- When a Lookup uses a null cache, the temporary cache it creates should not have a CacheCleaner thread.  
(based on a suggestion by Joseph Shraibman <jks@iname.com>)

10/31/2003

- Record.hashCode() didn't return consistent hash codes, and didn't ignore the TTL (which it should, and which Record.equals() does).

10/27/2003

- DNS TTLs and other 32 bit unsigned values are now represented as longs, not ints. This is an API change, but allows the full range



to be used.

- Add the Serial class for serial arithmetic.

9/30/2003

- 1.4.3 released.
- Fix a bit of code that required Java 1.4.

9/29/2003

- 1.4.2 released.

9/26/2003

- A Lookup shouldn't die when receiving a referral response; it should return an error. (reported by Elinor Chang <elinor\_chang@yahoo.com>)
- A Lookup should distinguish between timeouts and other network errors.
- When parsing IP addresses from text format, treat the presence of a leading zero on an octet as an error. It's unclear whether it would be treated as decimal or octal, which means it should be fixed. (reported by Marcos Sanz/Denic <sanz@denic.de>)

9/17/2003

- Fix an off-by-one error in the Name code; labels of length 63 were not accepted (patch from David Blacka <davidb@verisignlabs.com>)

9/2/2003

- 1.4.1 released.

9/1/2003

- The Update.delete(Record) method needs to reset the TTL of the cloned record to 0. (reported by Edwin R. Rivera <erivera@moniker.com>)

8/23/2003

- Change Record.fromString() to expect an EOL/EOF token at the end of the string, so that extraneous tokens can be detected. The master file parser was updated to this change. (noticed by Bob Halley <bob.halley@nominum.com>)

8/22/2003

- Changing TXTRecord.getStrings() from returning a List of Strings to a List of byte []'s was a bad idea. Change it back, and add TXTRecord.getStringsAsByteArrays(). (reported by Blake Ramsdell <blake@brutesquadlabs.com>)

8/21/2003

- 1.4.0 released.

8/20/2003

- Add the ReverseMap class, which contains functions to construct

names to be used in reverse map zones.

8/13/2003

- When looking up a one label unqualified name which fails to match all searchlist entries, don't append the root label and try again. This is recommended by RFC 1536, section 6: "Only if the name, so generated, returns an NXDOMAIN is the original name tried as a Fully Qualified Domain Name. And only if it contains at least one period."

7/18/2003

- Remove lots of unused imports. (Jared Richardson <jaredr@nc.rr.com>)

7/14/2003

- Fix a long-existing bug where empty records (in update messages) were incorrectly handled (reported by Kevin C Miller <kevinm@andrew.cmu.edu>)

6/22/2003

- DNS types and classes are now represented as ints, not shorts. This is an API change, but allows the full type/class range to be used.

6/18/2003

- Quoted strings didn't handle \ddd escapes.

6/17/2003

- Fix an ArrayIndexOutOfBoundsException triggered by load balancing in the ExtendedResolver. (reported by Norbert Desautels <ndesautels@gdgsystems.com>)

6/1/2003

- Add the Name.relative() method to convert an absolute name to a name relative to a specified origin.
- Add the Update class, which contains helper routines used to construct dynamic update messages.

5/28/2003

- Replace org.xbill.DNS.utils.MyStringTokenizer with org.xbill.DNS.Tokenizer, which is a far more robust and correct DNS tokenizer. Convert everything to use it.
- Fix text format of TXT, NAPTR, and HINFO records.

5/28/2003

- When constructing a record, check that all names are absolute.

5/27/2003

- 1.3.3 released.

4/26/2003

- The master file parser should accept BIND format TTLs.

4/10/2003

- The Inet6Address class incorrectly parsed some addresses.  
(reported by steve weiland <steve@widge.net>)

4/7/2003

- Records were not sorted properly (reported by  
Joseph K Shraibman <jks@akula.com>)

4/2/2003

- Fix off-by-one error in Name.compareTo (David Blacka)

3/30/2003

- Add the ZoneTransferIn class, which performs incoming AXFR/IXFR
- Make TSIG verification of multiple-message responses reentrant.
- Fix incorrect string quoting.
- Make records print on a single line by default; add the 'multiline'  
option to use the more verbose format.

3/17/2003

- Make the routine that converts an IP address from a string  
more efficient and correct.  
(based on a patch by Sean O'Neil <SeanO@telemate.net>)

2/12/2003

- Fix an infinite loop that could occur when processing a response  
containing a CNAME loop and an rcode of NOERROR.  
(reported by Sean O'Neil <SeanO@telemate.net>)

1/25/2003

- Cleanup and improvements to the ExtendedResolver class.

1/23/2003

- Add the setMaxCache() method to the Cache class.
- Check for non-absolute names when creating Records.

1/21/2003

- 1.3.2 released.

1/20/2003

- Certain responses with CNAMEs weren't being properly cached.  
(reported by Sean O'Neil <SeanO@telemate.net>)
- Add a 'compile' target to build.xml, and make the 'all' target  
both compile and build the jar file.  
(Jon Scott Stevens <jon@latchkey.com>)

12/22/2002

- Check for SecurityExceptions in the Options static initializer; this was preventing the use of dnsjava in an unsigned applet. (reported by Peter Westerink <peterw@us.ibm.com>).

12/15/2002

- Converting some types of records (TXT, for example) to wire format could throw an IndexOutOfBoundsException.
- TSIG signed UDP queries weren't properly verified by jnamed.
- Add a method to render a Message with a specified maximum size - this method will properly truncate large responses and apply TSIG signatures.

12/14/2002

- Move additional data processing to the Record class from jnamed; make jnamed use it, as well as the caching code.

12/9/2002

- Add the Lookup class, which is what the dns class should have been, and make the lookup sample program use it.

12/9/2002

- When caching a message, a response object can be constructed immediately.

12/4/2002

- 1.3.1 released.

12/3/2002

- If a subresolver of an ExtendedResolver exited by throwing a RuntimeException, the ExtendedResolver would throw a ClassCastException. It should rethrow the RuntimeException.

12/3/2002

- The Name code didn't handle names with non-printable characters. (found by Serge Sozonoff <serge@globalbeach.com>)

11/28/2002

- Fix a potential deadlock in the WorkerThread class. (found by Serge Sozonoff <serge@globalbeach.com>)

11/26/2002

- Fix a bug where looking up names without trailing dots would fail if there was no searchlist.

10/31/2002

- Fix a bug in searchlist processing on Windows.

10/20/2002

- Record.toWire() and Record.toWireCanonical() do not need to be declared as throwing IOException, since there's no legitimate reason for them to throw one.

10/18/2002

- Race condition fixes and memory usage improvements to the NameSet class, used by Cache and Zone.

10/16/2002

- 1.3.0 released.

10/11/2002

- Add Name.getLabel()

10/10/2002

- When cleaning the cache, catch ConcurrentModificationExceptions.

10/8/2002

- Cleanups to Cache.addMessage() and the Credibility code.

10/7/2002

- Fix problems with search path handling in the dns class.
- Possible race condition fixes to the Cache code.

10/6/2002

- Fix minor bugs in Name code (Bob Halley <bob.halley@nominum.com>)

10/1/2002

- Memory usage and speed improvements to the TypeMap class.

9/25/2002

- Add the verbosecache option.
- Significant memory usage improvements to the Name class.

9/23/2002

- Memory usage improvements to the ARecord class.

9/16/2002

- Support for NetWare's sys:/etc/resolv.cfg file.  
(Scott Villinski <scott@villinski.com>)

9/5/2002

- When looking for an rdataset in a zone or cache, seeing a CNAME above the name is not an error.  
(reported by Andrew Houghton <aah@volunteermatch.org>)

8/31/2002

- Changed the code that dynamically loads record types; hopefully this will solve some of the mysterious problems that I think are related to non-English versions of Windows.
- Clean up the Name code.

8/28/2002

- Remove support for bitstring labels, since they're now deprecated.

8/16/2002

- Address.isDottedQuad didn't check to see if the input String contained characters after an IP address.  
(Marcos Sanz <sanz@denic.de>)

8/11/2002

- Querying for a nonexistant name with exactly one label didn't return.

8/10/2002

- Add Ant build script (Blake Ramsdell <blake@brutesquadlabs.com>)

8/6/2002

- The AAAARecord constructor was broken.
- The Record class now implements Comparable.

6/22/2002

- Significant speed improvements in the Record class and its subclasses.

6/20/2002

- Add Zone.removeRecord() (based on code from Adam Cassar <adam.cassar@netregistry.com.au>)
- Add Zone.toMasterFile() (based on code from Adam Cassar)
- Performance enhancements to the Name object.
- Add the "-t type" option to the lookup program.

6/16/2002

- Update lots of code to use Collections instead of JDK 1.1 Vectors & Hashtables.

5/28/2002

- fix some limitations of name parsing.  
(reported by Tasos Kotsikonas <tasos@boldfish.com>)

5/4/2002

- added the 'sleep' and 'date' commands to the update client.  
(Olafur Gudmundsson <ogud@ogud.com>)

4/29/2002

- 1.2.4 released

4/25/2002

- Add a constructor for building a zone from an array of records.  
(based on code from Adam Cassar <adam.cassar@netregistry.com.au>)

4/24/2002

- Reduce the memory usage of the RRset class.
- Add a new factory method for creating a Record from a String, rather than a pre-tokenized String.
- Reduce the memory usage of the ARecord class.

4/23/2002

- Fix potential race conditions in the RRset class.  
(David Esposito <esposito@newnetco.com>)
- Fix potential race condition in the WorkerThread class when two threads complete their run methods nearly simultaneously.  
(David Esposito)
- Add a new factory method for creating a Record, where the length of the rdata is not explicitly specified, but inferred from data.length.

4/22/2002

- Improve name decompression by not requiring a decompression context.

3/27/2002

- Add support for the Delegation Signer (DS) record. (David Blacka)

3/22/2002

- Record.equals() did not properly canonicalize names.
- Record.equals() should ignore the TTL.

3/19/2002

- When a compressed name is parsed, it should be added to the compression table, so that future pointers to that name work.  
(reported by Blake Ramsdell <blake@brutesquadlabs.com>)

3/14/2002

- In jnamed, AXFR responses didn't have the message ID or flags set correctly.
- jnamed failed to respond to messages signed with unknown keys.
- jnamed did not sign responses to signed AXFR queries.

1/21/2002

- Handle empty domain statements in /etc/resolv.conf. (reported by Blake Ramsdell <blake@brutesquadlabs.com>)

1/1/2002

- Minor performance enhancements (suggested by Christopher Brind)

10/14/2001

- Add support for the DNSSEC RSA-SHA1 algorithm (David Blacka)
- Add rdataToWireCanonical() (David Blacka)

9/27/2001

- jnamed can now listen on specific addresses, with the "address" keyword in the config file.

9/23/2001

- 1.2.3 released

9/14/2001

- Creating an Enumeration of an empty RRset caused an infinite loop. (David Blacka <davidb@research.netsol.com>)

8/9/2001

- nsupdate compatibility and a bug fix to the update client. (patch from David Sward <david@berzerked.org>)

8/8/2001

- The results of ANY queries were not properly cached.

8/4/2001

- 1.2.2 released

7/22/2001

- Added the -q (print query) option to dig.
- Bitstring labels are now canonicalized.
- jnamed implements the DO (DNSSEC OK) bit.

7/19/2001

- A string tokenizer bug caused TXT records with one string to be incorrectly parsed. (David Blacka)
- Added Name.getLabelString().

7/17/2001

- Started implementing Name.compareTo(). (loosely based on a patch from David Blacka).

7/16/2001

- Converting a AAAA record to wire format was broken. (David Blacka)
- Inet6Address did not properly reject addresses that are too long or too short, and also didn't properly handle addresses with one number after a double colon.
- Key footprints were computed incorrectly. Also cache footprints in the KEYRecord to avoid recomputation. (David Blacka)



- Added the -d flag to dig, which sets the DNSSEC OK bit.

7/13/2001

- KEY flags were incorrect (David Blacka <davidb@research.netsol.com>)
- Add routines for parsing a master file from a non-file input source (David Blacka)
- base64.formatString() didn't work if lineLength wasn't 64. (David Blacka)
- Add support for the DNSSEC OK extended flag (David Blacka)
- Allow the caller of a Resolver to add an OPT record to a query. (original patch from David Blacka).

6/30/2001

- 1.2.1 released

5/23/2001

- Automatically determining name servers didn't work on Windows 2000.

4/13/2001

- Converting a Name to a String does proper character escaping.

4/7/2001

- 1.2.0 released

3/21/2001

- Only cache relevant data from answers.
- Cache negative responses more correctly.

3/14/2001

- Handle TTLs greater than  $2^{31}$ .

3/10/2001

- Performance and memory improvements to the Name object.

3/7/2001

- Performance improvements to TypeMap (used by Zone and Cache).

3/6/2001

- Lots of standards compliance related fixes.

3/4/2001

- Improved class handling.
- A few minor CNAME related fixes.

2/27/2001

- Referrals weren't returned correctly from jnamed.

1/15/2001

- Fix some signed/unsigned printing issues for KEY records  
(Pasi Eronen <pe@iki.fi>)
- Add routines to generate SIG(0) message signatures  
(Pasi Eronen <pe@iki.fi>)

1/8/2001

- Add support for unknown RR types & classes.

12/3/2000

- The target in an MX record can be compressed.

11/18/2000

- Add jnamed.conf example to USAGE

8/27/2000

- 1.1.6 released
- The high level api wasn't properly initialized.  
(Christopher Fitch <cfitch@sbt.com>)
- Added a routine to build a SIG record based on the results of  
a DSA signature (Pasi Eronen <pe@iki.fi>)

8/13/2000

- Added 'clear' command to update client
- Removed some deprecated code

8/8/2000

- Invalid binary labels were not always rejected
- SRV initialization didn't work (reported by Chuck Santos  
<csantos@netnumber.com>)
- jnamed failed if no Cache was specified
- The Zone object didn't handle zones with no NS records.
- Added support for the NAPTR record (Chuck Santos  
<csantos@netnumber.com>)

7/17/2000

- 1.1.5 released
- CERT records were printed with a negative keytag half the time.  
(reported by Jakob Schlyter <jakob@crt.se>).
- Printing a KEY record prints the key id.  
(Jakob Schlyter <jakob@crt.se>)

6/25/2000

- A Cache now contains a thread that periodically removes expired  
data.

6/4/2000

- update client syntax enhancement - add/delete/require/prohibit/glue  
no longer require -r, -s, or -n.

6/3/2000

- update client supported prohibiting individual records, which is not supported by dynamic update.

5/21/2000

- Win2000 support

4/15/2000

- ExtendedResolver supports load balancing of servers.

4/2/2000

- Minor fix to base64 decoding

3/22/2000

- name comparison should always be case insensitive  
(Darrell Kindred <dkindred@tislabs.com>)

3/5/2000

- 1.1.4 released
- added Cache.setMaxNCache(), which sets the maximum amount of time that a negative answer is cached.

2/10/2000

- update client: add show command, catch socket exception, don't send empty updates, assert tsig ok/failed/unsigned

2/8/2000

- 1.1.3 released
- Added lookup program
- FindServer finds a search path on Win95/WinNT

2/7/2000

- minor TKEY record updates
- FindServer should work on Win95/WinNT
- Added 'make jar' and a jar file

1/20/2000

- Added AAAA record

1/13/2000

- 1.1.2 released
- dns.setResolver() clears the cache

11/7/1999

- Added EDNS support to update client

11/2/1999

- A key starting with ':' is parsed as hex

10/28/1999

- minor TKEY fixes and TSIG updates

10/5/1999

- misc. small fixes

10/4/1999

- Missed TKEY in the type map

9/26/1999

- Added TKEY record

9/25/1999

- Diffie-Hellman key updates

9/23/1999

- dns.server and dns.search are now comma-delimited strings

9/20/1999

- 1.1 released (finally)  
- Change OPT to type 41 and fixed related stuff  
- Change license to LGPL

9/16/1999

- Cache & DNSSEC bug fixes

9/9/1999

- A6 record support (and IPv6 addresses)

9/6/1999

- jnamed has limited support for SIG records

9/4/1999

- res.sendAXFR() is now obsolete, just use res.send()  
- jnamed (and Zone) support incoming AXFR  
- Zone handles wildcards that replace multiple labels

9/2/1999

- Bitstrings are now compatible with current BIND 9  
- jnamed (and Zone) support outgoing AXFR  
- jnamed uses jnamed.conf by default, can specify port in config file, returns NOTIMPL on meta-queries other than AXFR and ANY.  
- DNSSEC can now verify records that came from wildcard expansion  
- SimpleResolver handles AXFR REFUSED  
- Lots of EDNS updates

9/1/1999

- More bitstring fixes.
- Added RP record (from Tom Scola <tscola@research.att.com>)

8/29/1999

- More bitstring label stuff. I think they work now.
- DataByteInputStream cleanup. Should handle errors better now.

8/26/1999

- More verbose options
- TSIG badtime bug & better reporting
- Large TTL bug
- MyStringTokenizer.setNoEscapeCharacter()

8/25/1999

- Imported DNSSEC code
- New options: tsigfudge, verbosehmac, verbosemsg
- Added utils.hexdump to print a formatted dump of bytes

8/24/1999

- More bitstring label support

8/23/1999

- All data now passes through the Cache. This should help with DNSSEC verification
- Added basic DNSSEC verification
- Fixes for handling data with TTL 0
- Started adding bitstring labels
- Added support for DNAME records (no processing yet)

8/8/1999

- Started adding global options (Options class)

8/7/1999

- Type and Class ANY should work correctly now
- jnamed and Zone handle wildcard records
- Cache returns wildcard set if name is negatively cached
- TTL can be converted into BIND format

8/6/1999

- Updates to KEYRecord - getFootprint() and renamed constants

8/2/1999

- 1.0.2 released
- WorkerThread obscure race conditions fixed (patches provided by Tom May <tom@go2net.com>)

8/1/1999

- Added getResolver/getCache to dns class
- RRset now has deleteRR and is better synchronized
- Cache now has flushName/flushSet
- Resolver.sendAsync returns an Object instead of an int
- Socket cleanup (patches provided by Tom May <tom@go2net.com>)
- WorkerThread's idle lifetime and max threads are now configurable
- HMAC-MD5 logic bug

7/5/1999

- 1.01 released
- fixed a hang with ExtendedResolver and Exceptions

6/30/1999

- dns search path should always include a . at the end. The only time this bug would show up is when querying for an unqualified top level name.

6/29/1999

- update now ignores '>' at the beginning of a line, to allow easier cut and paste from other update sessions.

6/24/1999

- Use an int instead of a short for the message section count. It would be nice if java had unsigned types, but since messages are also constructed from zone transfers, a larger value is useful.

6/23/1999

- AXFR TSIG bug fix

6/18/1999

- 1.0 released. Yay!
- documentation updates
- my birthday

6/15/1999

- Restructured update's help
- Added 'assert serial' to update, fixes to query keyword
- Added Record.fromWire from a byte array
- Added LOC support

6/14/1999

- Updates to multiline parser

6/11/1999

- Added Message.newUpdate to simplify sending updates

6/10/1999

- Zone file parser now handles \$INCLUDE

- update now has a keyword 'zone', which sets the zone to be updated, if it's different than the origin
- added constants for DNAME, A6, KX
- added KX support, abstracted MX code to support KX also.

6/9/1999

- update should handle timeouts
- AXFR parser should allow 1 record in the question section

6/7/1999

- Zone file parser now handles \$TTL, and complains about invalid directives.
- fixed a few parsing problems in update
- fixed null key parsing and key flags handling

6/3/1999

- added author javadoc tags
- added javadoc comments to Master. Again, not sure how I missed this before.

5/25/1999

- 0.9.5 released
- fixed another null pointer in the cache

5/23/1999

- added javadoc comments to utils/MyStringTokenizer. Not sure how I missed this class before.
- minor cleanups to string parsing in update

5/21/1999

- fixed comment processing in update
- fixed case bug in Section handling

5/20/1999

- 0.9.4 released
- fixed the same round-robin bug, hopefully correctly this time

5/17/1999

- 0.9.3 released

5/16/1999

- fixed a round-robin bug

5/14/1999

- 0.9.2 released
- Resolver routines now return Exceptions instead of null.

5/13/1999

- split WorkerThread into WorkerThread and ResolveThread

4/25/1999

- moved files to org.xbill.DNS
- Cache round-robins RRsets before handing them out
- changed the way ExtendedResolver decides when to send queries
- various reflection changes

4/21/1999

- minor WorkerThread fixes

4/19/1999

- 0.9.1 released
- WorkerThreads should die after 15 minutes of idle time
- Address.getByName/getAllByName handle dotted quad IP addresses

4/18/1999

- 0.9 released
- Finished javadoc-ing classes in DNS.\*
- Server should work now
- Zone/Cache response updates
- Zone/Cache accesses should be more thread-safe

4/17/1999

- The Cache supports ANY queries
- More javadoc-ed classes in DNS.\*
- implemented toWireCanonical for record types that need it
- Message.toString should print better output for update messages

4/16/1999

- jnamed wasn't looking up non-ANY queries correctly in a zone
- SimpleResolver should use TCP if query length is longer than UDP packet size
- More javadoc-ed classes in DNS.\*
- MyStringTokenizer moved to DNS.utils

4/15/1999

- More javadoc-ed classes in DNS.\*
- Moved functions from DNS.IO to DNS.utils.base64 and DNS.Master
- Implemented search path for dns.getRecords functions
- 0.8.3 released
- Restrict number of WorkerThreads to 10
- ExtendedResolver timer code fixes
- ExtendedResolver race condition fix

4/14/1999

- ExtendedResolver reentrancy fixes
- Names are marked as qualified/unqualified



- FindServer looks for search path from -Ddns.search1, etc.  
and in /etc/resolv.conf

4/13/1999

- 0.8.2 released
- More javadoc-ed classes in DNS.\*
- The message ID stuff from 4/10 broke TSIG, so it's gone
- Changes to ExtendedResolver's handling of child Resolvers
- Too many threads were being created
- Threads should now have meaningful names

4/12/1999

- NameSet shouldn't be using wildcards, since it's not correct for a cache (a name could match a wildcard and return wildcard data before the cache learned about data for the name)
- javadoc-ed DNS.utils.\* and some of DNS.\*
- ExtendedResolver allows specifying Resolvers to use
- SimpleResolver and ExtendedResolver share a thread pool
- ExtendedResolver and FindServer bugfixes
- Header bug that actually caused the 0.8.1 release fixed
- bugfix release 0.8.1 released
- Messages weren't being cloned properly
- Resolver didn't handle a query to nowhere correctly

4/11/1999

- 0.8 released
- Resolver is now an interface, implemented by SimpleResolver and ExtendedResolver.
- added ExtendedResolver, which sends multiple queries to multiple resolvers.
- jnamed rejects non-queries

4/10/1999

- added Message.newQuery() to make building queries easier
- Record.fromWire verifies that the record length is correct
- Resolver.sendAsync() now uses worker threads rather than starting a new thread each time.
- Multiple servers can be found by setting the dns.server<n> properties (or from /etc/resolv.conf).
- Message/Header doesn't generate the message id until the message is sent or the id is queried for

4/9/1999

- added setTimeout to Resolver

4/8/1999

- fixed obscure md5 bug
- made Resolver(null) and Resolver() equivalent

4/7/1999

- Added simple asynchronous interface to resolver

4/6/1999

- CERT and SIG bug fixes

4/5/1999

- data lookups should use class in addition to type
- CERT record bug fix

4/4/1999

- 0.7 released
- DNS.dns uses Cache
- Added getAny\* to DNS.dns
- Cache can return information indicating partial success on lookup

4/3/1999

- Cache does negative caching
- Cache follows CNAMEs when looking for cached data

4/2/1999

- dig now understands -x
- added DNS.Address, a clone of InetAddress
- Cache can now follow CNAME chains
- Cache now expires records based on TTL and doesn't cache records with TTL = 0.

4/1/1999

- Made Cache and Zone extend NameSet
- Created Master class to parse master files

3/31/1999

- Added first cut at Cache
- Changes to RRset to make it more useful

3/30/1999

- 0.6 released
- bug fixes to DataInputStream, jnamed
- jnamed now takes config file
- Added basic EDNS0 and TSIG support to jnamed
- Added basic EDNS0 support and IgnoreTruncation flag to Resolver
- jnamed can now return FORMERR

3/29/1999

- 0.5 released
- update client: added "echo" and "log" keywords, "file" can now specify "-" for standard input (at the end of a config file,





thread safe. It can be used to replace the native DNS support in Java.

dnsjava was started as an excuse to learn Java. It was useful for testing new features in BIND without rewriting the C resolver. It was then cleaned up and extended in order to be used as a testing framework for DNS interoperability testing. The high level API and caching resolver were added to make it useful to a wider audience. The authoritative only server was added as proof of concept.

Getting started:

Run 'ant' from the toplevel directory to build dnsjava (a Makefile is also provided, but does not have all of the features of the ant script). JDK 1.4 or higher is required.

To compile name service provider support (org.xbill.DNS.spi), run 'ant spi'.

Replacing the standard Java DNS functionality:

Beginning with Java 1.4, service providers can be loaded at runtime. To load the dnsjava service provider, build it as explained above and set the system property:

```
sun.net.spi.nameservice.provider.1=dns,dnsjava
```

This instructs the JVM to use the dnsjava service provide for DNS at the highest priority.

Testing dnsjava:

Matt Rutherford <rutherfo@cs.colorado.edu> contributed a number of unit tests, which are in the tests subdirectory. The hierarchy under tests mirrors the org.xbill.DNS classes. To build the unit tests, run 'ant compile\_tests', and to run then, run 'ant run\_tests'. The tests require JUnit (<http://www.junit.org>) to be installed.

Some high-level test programs are in org/xbill/DNS/tests.

Limitations:

There's no standard way to determine what the local nameserver or DNS search path is at runtime from within the JVM. dnsjava attempts several methods until one succeeds.

- The properties 'dns.server' and 'dns.search' (comma delimited lists) are checked. The servers can either be IP addresses or hostnames (which are resolved using Java's built in DNS support).
- The sun.net.dns.ResolverConfiguration class is queried.
- On Unix, /etc/resolv.conf is parsed.
- On Windows, ipconfig/winiptcfg is called and its output parsed. This may fail for non-English versions on Windows.
- As a last resort, "localhost" is used as the nameserver, and the search path is empty.

The underlying platform must use an ASCII encoding of characters. This means that dnsjava will not work on OS/390, for example.

Additional documentation:

Javadoc documentation is provided in the doc/ subdirectory of binary distributions, and can be built with 'ant docs'.

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dnsjava is placed under the BSD license. Several files are also under additional licenses; see the individual files for details.

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Final notes:

- Thanks to Network Associates, Inc. for sponsoring some of the original dnsjava work in 1999-2000.
- Thanks to Nominum, Inc. for sponsoring some work on dnsjava from 2000 to the present.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902225\_1595579757.29/0/dnsjava-2-0-3-zip/dnsjava-2.0.3/README

## 1.5 xml-beans 2.5.0

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## 1.6 jcifs 1.3.17

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# 1.7 javax-mail-api 1.4

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## 1.12 struts 1.2.8

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\* /opt/ws\_local/PERMITS\_SQL/1038515098\_1595493203.34/0/java-json-jar/org/json/JSONStringer.java

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# 1.18 hsql-db 1.7.3

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## 1.19 jsr173-api 1.0

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/\*\*

\* This is the top level interface for events dealing with DTDs

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/DTD.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This interface is used to resolve resources during an XML parse. If an application wishes to

\* perform custom entity resolution it must register an instance of this interface with

\* the XMLInputFactory using the setXMLResolver method.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLResolver.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This is the base event interface for handling markup events.

\* Events are value objects that are used to communicate the

\* XML 1.0 InfoSet to the Application. Events may be cached

\* and referenced after the parse has completed.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see javax.xml.stream.XMLEventReader

\* @see Characters

\* @see ProcessingInstruction

\* @see StartElement

\* @see EndElement

- \* @see StartDocument
- \* @see EndDocument
- \* @see EntityReference
- \* @see EntityDeclaration
- \* @see NotationDeclaration

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/XMLEvent.java

No license file was found, but licenses were detected in source scan.

/\*\*

- \* An interface that contains information about a namespace.
- \* Namespaces are accessed from a StartElement.
- \*
- \* @version 1.0
- \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
- \* @see StartElement

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/Namespace.java

No license file was found, but licenses were detected in source scan.

/\*\*

- \* An interface that contains information about an attribute. Attributes are reported
- \* as a set of events accessible from a StartElement. Other applications may report
- \* Attributes as first-order events, for example as the results of an XPath expression.
- \*
- \* @version 1.0
- \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
- \* @see StartElement

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/Attribute.java

No license file was found, but licenses were detected in source scan.

/\*\*

- \* Provides information on the location of an event.
- \*
- \* All the information provided by a Location is optional. For example
- \* an application may only report line numbers.
- \*
- \* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/Location.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This interface is used to report non-fatal errors.

\* Only warnings should be echoed through this interface.

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLReporter.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This interface defines an event consumer interface. The contract of the

\* of a consumer is to accept the event. This interface can be used to

\* mark an object as able to receive events. Add may be called several

\* times in immediate succession so a consumer must be able to cache

\* events it hasn't processed yet.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/util/XMLEventConsumer.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* Defines an abstract implementation of a factory for

\* getting XMLEventWriters and XMLStreamWriters.

\*

\* The following table defines the standard properties of this specification.

\* Each property varies in the level of support required by each implementation.

\* The level of support required is described in the 'Required' column.

\*

\* <table border="2" rules="all" cellpadding="4">

\* <thead>

\* <tr>

\* <th align="center" colspan="2">



```

*      Configuration parameters
*      </th>
*      </tr>
*      </thead>
*      <tbody>
*      <tr>
*      <th>Property Name</th>
*      <th>Behavior</th>
*      <th>Return type</th>
*      <th>Default Value</th>
*      <th>Required</th>
*      </tr>
*      <tr><td>javax.xml.stream.isRepairingNamespaces</td><td>defaults prefixes on the output
side</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
*      </tbody>
*      </table>
*
* <p>The following paragraphs describe the namespace and prefix repair algorithm:</p>
*
* <p>The property can be set with the following code line:
* <code>setProperty("javax.xml.stream.isRepairingNamespaces",new Boolean(true|false));</code></p>
*
* <p>This property specifies that the writer default namespace prefix declarations.
* The default value is false. </p>
*
* <p>If a writer isRepairingNamespaces it will create a namespace declaration
* on the current StartElement for
* any attribute that does not
* currently have a namespace declaration in scope. If the StartElement
* has a uri but no prefix specified a prefix will be assigned, if the prefix
* has not been declared in a parent of the current StartElement it will be declared
* on the current StartElement. If the defaultNamespace is bound and in scope
* and the default namespace matches the URI of the attribute or StartElement
* QName no prefix will be assigned.</p>
*
* <p>If an element or attribute name has a prefix, but is not
* bound to any namespace URI, then the prefix will be removed
* during serialization.</p>
*
* <p>If element and/or attribute names in the same start or
* empty-element tag are bound to different namespace URIs and
* are using the same prefix then the element or the first
* occurring attribute retains the original prefix and the
* following attributes have their prefixes replaced with a
* new prefix that is bound to the namespace URIs of those
* attributes. </p>
*
* <p>If an element or attribute name uses a prefix that is

```

\* bound to a different URI than that inherited from the  
 \* namespace context of the parent of that element and there  
 \* is no namespace declaration in the context of the current  
 \* element then such a namespace declaration is added. </p>  
 \*  
 \* <p>If an element or attribute name is bound to a prefix and  
 \* there is a namespace declaration that binds that prefix  
 \* to a different URI then that namespace declaration is  
 \* either removed if the correct mapping is inherited from  
 \* the parent context of that element, or changed to the  
 \* namespace URI of the element or attribute using that prefix.</p>  
 \*  
 \* @version 1.0  
 \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
 \* @see XMLInputFactory  
 \* @see XMLEventWriter  
 \* @see XMLStreamWriter  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-  
 jar/src/javax/xml/stream/XMLOutputFactory.java

No license file was found, but licenses were detected in source scan.

```
/**
 *
 * This is the top level interface for parsing XML Events. It provides
 * the ability to peek at the next event and returns configuration
 * information through the property interface.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see XMLInputFactory
 * @see XMLEventWriter
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-  
 jar/src/javax/xml/stream/XMLEventReader.java

No license file was found, but licenses were detected in source scan.

```
/**
 *
 * This is the top level interface for writing XML documents.
 *
 * Instances of this interface are not required to validate the
 * form of the XML.
 */
```

```
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLEventReader
* @see javax.xml.stream.events.XMLEvent
* @see javax.xml.stream.events.Characters
* @see javax.xml.stream.events.ProcessingInstruction
* @see javax.xml.stream.events.StartElement
* @see javax.xml.stream.events.EndElement
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLStreamWriter.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* The base exception for unexpected processing errors. This Exception
* class is used to report well-formedness errors as well as unexpected
* processing conditions.
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLStreamException.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* This interface declares a simple filter interface that one can
* create to filter XMLEventReaders
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/EventFilter.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* An interface that describes the data found in processing instructions
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/ProcessingInstruction.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This is the base class for deriving an XMLEventReader

\* filter.

\*

\* This class is designed to sit between an XMLEventReader and an

\* application's XMLEventReader. By default each method

\* does nothing but call the corresponding method on the

\* parent interface.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see javax.xml.stream.XMLEventReader

\* @see StreamReaderDelegate

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/util/EventReaderDelegate.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* An interface for handling Notation Declarations

\*

\* Receive notification of a notation declaration event.

\* It is up to the application to record the notation for later reference,

\* At least one of publicId and systemId must be non-null.

\* There is no guarantee that the notation declaration

\* will be reported before any unparsed entities that use it.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/NotationDeclaration.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* This interface declares a simple filter interface that one can

\* create to filter XMLStreamReaders

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/StreamFilter.java

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/\*\*

\* This describes the interface to Characters events.  
\* All text events get reported as Characters events.  
\* Content, CDATA and whitespace are all reported as  
\* Characters events. IgnorableWhitespace, in most cases,  
\* will be set to false unless an element declaration of element  
\* content is present for the current element.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/Characters.java

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/\*\*

\* An error class for reporting factory configuration errors.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/FactoryConfigurationError.java

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/\*\*

\* A marker interface for the end of the document

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/EndDocument.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* Defines an abstract implementation of a factory for getting streams.

\*

\* The following table defines the standard properties of this specification.

\* Each property varies in the level of support required by each implementation.

\* The level of support required is described in the 'Required' column.

\*

```
* <table border="2" rules="all" cellpadding="4">
```

```
* <thead>
```

```
* <tr>
```

```
* <th align="center" colspan="5">
```

```
* Configuration parameters
```

```
* </th>
```

```
* </tr>
```

```
* </thead>
```

```
* <tbody>
```

```
* <tr>
```

```
* <th>Property Name</th>
```

```
* <th>Behavior</th>
```

```
* <th>Return type</th>
```

```
* <th>Default Value</th>
```

```
* <th>Required</th>
```

```
* </tr>
```

```
* <tr><td>javax.xml.stream.isValidating</td><td>Turns on/off implementation specific DTD validation</td><td>Boolean</td><td>False</td><td>No</td></tr>
```

```
* <tr><td>javax.xml.stream.isNamespaceAware</td><td>Turns on/off namespace processing for XML 1.0 support</td><td>Boolean</td><td>True</td><td>True (required) / False (optional)</td></tr>
```

```
* <tr><td>javax.xml.stream.isCoalescing</td><td>Requires the processor to coalesce adjacent character data</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream.isReplacingEntityReferences</td><td>replace internal entity references with their replacement text and report them as characters</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream.isSupportingExternalEntities</td><td>Resolve external parsed entities</td><td>Boolean</td><td>Unspecified</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream.supportDTD</td><td>Use this property to request processors that do not support DTDs</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream.reporter</td><td>sets/gets the impl of the XMLReporter</td><td>javax.xml.stream.XMLReporter</td><td>Null</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream.resolver</td><td>sets/gets the impl of the XMLResolver interface</td><td>javax.xml.stream.XMLResolver</td><td>Null</td><td>Yes</td></tr>
```

```
* <tr><td>javax.xml.stream allocator</td><td>sets/gets the impl of the XMLEventAllocator interface</td><td>javax.xml.stream.util.XMLEventAllocator</td><td>Null</td><td>Yes</td></tr>
```

```
* </tbody>
```

```
* </table>
```

\*

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see XMLOutputFactory

\* @see XMLEventReader

\* @see XMLStreamReader  
\* @see EventFilter  
\* @see XMLReporter  
\* @see XMLResolver  
\* @see javax.xml.stream.util.XMLEventAllocator  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLInputFactory.java

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/\*\*

\* An interface for the start document event

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/StartDocument.java

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/\*\*

\* The StartElement interface provides access to information about

\* start elements. A StartElement is reported for each Start Tag

\* in the document.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/StartElement.java

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/\*\*

\* An interface for handling Entity Declarations

\*

\* This interface is used to record and report unparsed entity declarations.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/EntityDeclaration.java

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/\*\*

\* This interface defines a class that allows a user to register  
\* a way to allocate events given an XMLStreamReader. An implementation  
\* is not required to use the XMLEventFactory implementation but this  
\* is recommended. The XMLEventAllocator can be set on an XMLInputFactory  
\* using the property "javax.xml.stream allocator"

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see javax.xml.stream.XMLInputFactory

\* @see javax.xml.stream.XMLEventFactory

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/util/XMLEventAllocator.java

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/\*\*

\* An interface for handling Entity events.

\*

\* This event reports entities that have not been resolved  
\* and reports their replacement text unprocessed (if  
\* available). This event will be reported if javax.xml.stream.isReplacingEntityReferences  
\* is set to false. If javax.xml.stream.isReplacingEntityReferences is set to true  
\* entity references will be resolved transparently.

\*

\* Entities are handled in two possible ways:

\*

\* (1) If javax.xml.stream.isReplacingEntityReferences is set to true  
\* all entity references are resolved and reported as markup transparently.  
\* (2) If javax.xml.stream.isReplacingEntityReferences is set to false  
\* Entity references are reported as an EntityReference Event.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/EntityReference.java

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/\*\*



- \* The XMLStreamWriter interface specifies how to write XML. The XMLStreamWriter does
- \* not perform well formedness checking on its input. However
- \* the writeCharacters method is required to escape &amp; , &lt; and &gt;
- \* For attribute values the writeAttribute method will escape the
- \* above characters plus &quot; to ensure that all character content
- \* and attribute values are well formed.
- \*
- \* Each NAMESPACE
- \* and ATTRIBUTE must be individually written.
- \*
- \* If javax.xml.stream.isPrefixDefaulting is set to false it is a fatal error if an element
- \* is written with namespace URI that has not been bound to a prefix.
- \*
- \* If javax.xml.stream.isPrefixDefaulting is set to true the XMLStreamWriter implementation
- \* must write a prefix for each unbound URI that it encounters in the
- \* current scope.
- \*
- \* @version 1.0
- \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
- \* @see XMLOutputFactory
- \* @see XMLStreamReader
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLStreamWriter.java

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/\*\*

- \* The XMLStreamReader interface allows forward, read-only access to XML.
- \* It is designed to be the lowest level and most efficient way to
- \* read XML data.
- \*
- \* <p> The XMLStreamReader is designed to iterate over XML using
- \* next() and hasNext(). The data can be accessed using methods such as getEventType(),
- \* getNamespaceURI(), getLocalName() and getText();
- \*
- \* <p> The <a href="#next()">next()</a> method causes the reader to read the next parse event.
- \* The next() method returns an integer which identifies the type of event just read.
- \* <p> The event type can be determined using <a href="#getEventType()">getEventType()</a>.
- \* <p> Parsing events are defined as the XML Declaration, a DTD,
- \* start tag, character data, white space, end tag, comment,
- \* or processing instruction. An attribute or namespace event may be encountered
- \* at the root level of a document as the result of a query operation.
- \*
- \* <p>For XML 1.0 compliance an XML processor must pass the
- \* identifiers of declared unparsed entities, notation declarations and their
- \* associated identifiers to the application. This information is

- \* provided through the property API on this interface.
- \* The following two properties allow access to this information:
- \* javax.xml.stream.notation and javax.xml.stream.entities.
- \* When the current event is a DTD the following call will return a
- \* list of Notations
- \* `List l = (List) getProperty("javax.xml.stream.notation");`
- \* The following call will return a list of entity declarations:
- \* `List l = (List) getProperty("javax.xml.stream.entities");`
- \* These properties can only be accessed during a DTD event and
- \* are defined to return null if the information is not available.

\* <p>The following table describes which methods are valid in what state.  
 \* If a method is called in an invalid state the method will throw a  
 \* java.lang.IllegalStateException.

Valid methods for each state	
Event Type	Valid Methods
All States	getProperty(), hasNext(), require(), close(), getNamespaceURI(), isStartElement(), isEndElement(), isCharacters(), isWhiteSpace(), getNamespaceContext(), getEventType(), getLocation(), hasText(), hasName()
START_ELEMENT	next(), getName(), getLocalName(), hasName(), getPrefix(), getAttributeXXX(), isAttributeSpecified(), getNamespaceXXX(), getElementText(), nextTag()
ATTRIBUTE	next(), nextTag() getAttributeXXX(), isAttributeSpecified(),

```

* </td>
* </tr>
* </tr>
* <td> NAMESPACE </td>
* <td> next(), nextTag()
*     getNamespaceXXX()
* </td>
* </tr>
* <tr>
* <td> END_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
*     getNamespaceXXX(), nextTag()
* </td>
* </tr>
* <tr>
* <td> CHARACTERS </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> CDATA </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> COMMENT </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> SPACE </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> START_DOCUMENT </td>
* <td> next(), getEncoding(), getVersion(), isStandalone(), standaloneSet(),
*     getCharacterEncodingScheme(), nextTag()</td>
* </tr>
* <tr>
* <td> END_DOCUMENT </td>
* <td> close()</td>
* </tr>
* <tr>
* <td> PROCESSING_INSTRUCTION </td>
* <td> next(), getPITarget(), getPIData(), nextTag() </td>
* </tr>
* <tr>
* <td> ENTITY_REFERENCE </td>
* <td> next(), getLocalName(), getText(), nextTag() </td>
* </tr>
* <tr>

```

```
* <td> DTD </td>
* <td> next(), getText(), nextTag() </td>
* </tr>
* </tbody>
* </table>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.events.XMLEvent
* @see XMLInputFactory
* @see XMLStreamWriter
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLStreamReader.java
```

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```
/**
* An interface for comment events
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/events/Comment.java
```

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```
/**
* This interface defines a utility class for creating instances of
* XMLEvents
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.events.StartElement
* @see javax.xml.stream.events.EndElement
* @see javax.xml.stream.events.ProcessingInstruction
* @see javax.xml.stream.events.Comment
* @see javax.xml.stream.events.Characters
* @see javax.xml.stream.events.StartDocument
* @see javax.xml.stream.events.EndDocument
* @see javax.xml.stream.events.DTD
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073902481_1595580130.82/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLEventFactory.java
```

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```
/**
 * An interface for the end element event. An EndElement is reported
 * for each End Tag in the document.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see XMLEvent
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/EndElement.java

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```
/**
 * This is the base class for deriving an XMLStreamReader filter
 *
 * This class is designed to sit between an XMLStreamReader and an
 * application's XMLStreamReader. By default each method
 * does nothing but call the corresponding method on the
 * parent interface.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see javax.xml.stream.XMLStreamReader
 * @see EventReaderDelegate
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073902481\_1595580130.82/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/util/StreamReaderDelegate.java

## 1.20 mime4j 0.6

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 *
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 */
```

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## 1.21 urlrewritefilter 3.2.0

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