

ZooKeeper 3.1.0 Release Notes

by

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These release notes include new developer and user facing incompatibilities, features, and major improvements.

See [3.0 release notes and migration instructions](#) if you are upgrading from version 2 of ZooKeeper (SourceForge) to version 3 or later.

1. Changes Since ZooKeeper 3.0.1

Issue	Notes
Incompatibilities	
ZOOKEEPER-246	review error code definition in both source and docs
New Feature	
ZOOKEEPER-135	Fat jar build target
ZOOKEEPER-215	expand system test environment
ZOOKEEPER-231	Quotas in zookeeper
ZOOKEEPER-256	support use of JMX to manage log4j configuration at runtime
ZOOKEEPER-276	Bookkeeper contribution
Task	
ZOOKEEPER-210	Require Java 6
Bug	
ZOOKEEPER-16	Need to do path validation
ZOOKEEPER-204	SetWatches needs to be the first message after auth messages to the server
ZOOKEEPER-205	Error on version-info when compiling from the tarball distribution
ZOOKEEPER-206	documentation tab should contain the version number (and other small site changes)
ZOOKEEPER-208	Zookeeper C client uses API that are not thread safe, causing crashes when multiple instances are active

ZOOKEEPER-209	nullpointerexception if election port is not specified.
ZOOKEEPER-212	snapshot is synchronous in 3.0
ZOOKEEPER-213	programmer guide C api docs are out of sync with latest zookeeper.h
ZOOKEEPER-218	error in barrier recipe example code
ZOOKEEPER-219	events.poll timeout in watcher test too short
ZOOKEEPER-221	log message in ZkWatchManager.materialize missing conditional
ZOOKEEPER-226	exists calls fails on server if node has null data
ZOOKEEPER-227	gcc warning from recordio.h
ZOOKEEPER-228	apache header missing in DBtest
ZOOKEEPER-232	testablezookeeper file is missing apache licence headers.
ZOOKEEPER-240	Yet another npe
ZOOKEEPER-241	Build of a distro fails after clean target is run
ZOOKEEPER-242	zookeeper c tests are failing..
ZOOKEEPER-245	update readme/quickstart to be release tar, rather than source, based
ZOOKEEPER-247	fix formatting of C API in ACL section of programmer guide
ZOOKEEPER-249	QuorumPeer.getClientPort() always returns -1
ZOOKEEPER-250	isvalidsnapshot should handle the case of 0 snapshot files better.
ZOOKEEPER-251	NullPointerException stopping and starting Zookeeper servers
ZOOKEEPER-252	PurgeTxnLog is not handling the new dataDir directory structure
ZOOKEEPER-253	documentation of DataWatcher state transition is misleading regarding auto watch reset on reconnect

ZOOKEEPER-254	there is currently no way for a user to test session expiration in their code
ZOOKEEPER-255	zoo_set() api does not return stat datastructure.
ZOOKEEPER-257	Review logging level for WARN/ERROR log messages, some misclassified
ZOOKEEPER-258	docs incorrectly state max client timeout as 60 seconds (it's based on server ticktime)
ZOOKEEPER-266	KeeperState missing javadoc for values
ZOOKEEPER-267	java client incorrectly generating syncdisconnected event when in disconnected state
ZOOKEEPER-268	tostring on jute generated objects can cause NPE
ZOOKEEPER-272	getChildren can fail for large numbers of children
ZOOKEEPER-273	Zookeeper c client build should not depend on CPPUNIT
ZOOKEEPER-275	Bug in FastLeaderElection
ZOOKEEPER-284	JMX doesn't get the clientPort correctly
ZOOKEEPER-285	the stat command does not return the correct mode
ZOOKEEPER-211	Not all Mock tests are working
ZOOKEEPER-291	regression for legacy code using KeeperException.Code constants (due to 246)
ZOOKEEPER-293	zoo_set needs to be abi compatible (3.1 changed the signature), fix this by adding zoo_set2
Improvement	
ZOOKEEPER-64	We should log system env information when initializing client/server
ZOOKEEPER-149	c interface is missing tests against java server (mock only)
ZOOKEEPER-177	needed: docs for JMX

ZOOKEEPER-214	add new "stat reset" command to server admin port
ZOOKEEPER-217	handle errors when parsing config file, throw illegalargumentexception rather than exit()
ZOOKEEPER-220	programming guide watches section should clarify server/clientlib role in data/child watch maint.
ZOOKEEPER-222	print C client log message timestamp in human readable form
ZOOKEEPER-223	default log4j root logger configuration has neg perf impact with no benefit, change default level to INFO
ZOOKEEPER-225	c client should log an info message in zookeeper_init detailing connection parameters
ZOOKEEPER-229	improve documentation regarding user's responsibility to cleanup datadir (snaps/logs)
ZOOKEEPER-230	Improvements to FLE
ZOOKEEPER-234	Eliminate using statics to initialize the sever. Should allow server to be more embeddable in OSGi enviornments.
ZOOKEEPER-243	add SEQUENCE flag documentation to the programming guide
ZOOKEEPER-248	QuorumPeer should use Map interface instead of HashMap implementation.
ZOOKEEPER-259	cleanup the logging levels used (use the correct level) and messages generated
ZOOKEEPER-260	document the recommended values for server id's
ZOOKEEPER-263	document connection host:port as comma separated list in forrest docs
ZOOKEEPER-265	remove (deprecate) unused NoSyncConnected from KeeperState
ZOOKEEPER-269	connectionloss - add more documentation to detail
ZOOKEEPER-286	Make GenerateLoad use InstanceContainers

ZOOKEEPER-289	add debug messages to nioserver select loop.
ZOOKEEPER-161	Content needed: "Designing a ZooKeeper Deployment"
ZOOKEEPER-69	ZooKeeper logo

Table 1: Changes Since ZooKeeper 3.0.1