

# 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	
<a href="#">ZOOKEEPER-255</a>	zoo_set() api does not return stat datastructure.
New Feature	
<a href="#">ZOOKEEPER-135</a>	Fat jar build target
<a href="#">ZOOKEEPER-215</a>	expand system test environment
<a href="#">ZOOKEEPER-231</a>	Quotas in zookeeper
<a href="#">ZOOKEEPER-256</a>	support use of JMX to manage log4j configuration at runtime
<a href="#">ZOOKEEPER-276</a>	Bookkeeper contribution
Task	
<a href="#">ZOOKEEPER-210</a>	Require Java 6
Bug	
<a href="#">ZOOKEEPER-16</a>	Need to do path validation
<a href="#">ZOOKEEPER-204</a>	SetWatches needs to be the first message after auth messages to the server
<a href="#">ZOOKEEPER-205</a>	Error on version-info when compiling from the tarball distribution
<a href="#">ZOOKEEPER-206</a>	documentation tab should contain the version number (and other small site changes)
<a href="#">ZOOKEEPER-208</a>	Zookeeper C client uses API that are not thread safe, causing crashes when multiple instances are active
<a href="#">ZOOKEEPER-209</a>	nullpointerexception if election port is not specified.

<a href="#">ZOOKEEPER-212</a>	snapshot is synchronous in 3.0
<a href="#">ZOOKEEPER-213</a>	programmer guide C api docs are out of sync with latest zookeeper.h
<a href="#">ZOOKEEPER-218</a>	error in barrier recipe example code
<a href="#">ZOOKEEPER-219</a>	events.poll timeout in watcher test too short
<a href="#">ZOOKEEPER-221</a>	log message in ZkWatchManager.materialize missing conditional
<a href="#">ZOOKEEPER-226</a>	exists calls fails on server if node has null data
<a href="#">ZOOKEEPER-227</a>	gcc warning from recordio.h
<a href="#">ZOOKEEPER-228</a>	apache header missing in DBtest
<a href="#">ZOOKEEPER-232</a>	testablezookeeper file is missing apache licence headers.
<a href="#">ZOOKEEPER-240</a>	Yet another npe
<a href="#">ZOOKEEPER-241</a>	Build of a distro fails after clean target is run
<a href="#">ZOOKEEPER-242</a>	zookeeper c tests are failing..
<a href="#">ZOOKEEPER-245</a>	update readme/quickstart to be release tar, rather than source, based
<a href="#">ZOOKEEPER-247</a>	fix formatting of C API in ACL section of programmer guide
<a href="#">ZOOKEEPER-249</a>	QuorumPeer.getClientPort() always returns -1
<a href="#">ZOOKEEPER-250</a>	isvalidsnapshot should handle the case of 0 snapshot files better.
<a href="#">ZOOKEEPER-251</a>	NullPointerException stopping and starting Zookeeper servers
<a href="#">ZOOKEEPER-252</a>	PurgeTxnLog is not handling the new dataDir directory structure
<a href="#">ZOOKEEPER-253</a>	documentation of DataWatcher state transition is misleading regarding auto watch reset on reconnect
<a href="#">ZOOKEEPER-254</a>	there is currently no way for a user to test session expiration in their code

<a href="#">ZOOKEEPER-257</a>	Review logging level for WARN/ERROR log messages, some misclassified
<a href="#">ZOOKEEPER-258</a>	docs incorrectly state max client timeout as 60 seconds (it's based on server ticktime)
<a href="#">ZOOKEEPER-266</a>	KeeperState missing javadoc for values
<a href="#">ZOOKEEPER-267</a>	java client incorrectly generating syncdisconnected event when in disconnected state
<a href="#">ZOOKEEPER-268</a>	tostring on jute generated objects can cause NPE
<a href="#">ZOOKEEPER-272</a>	getChildren can fail for large numbers of children
<a href="#">ZOOKEEPER-273</a>	Zookeeper c client build should not depend on CPPUNIT
<a href="#">ZOOKEEPER-275</a>	Bug in FastLeaderElection
<a href="#">ZOOKEEPER-284</a>	JMX doesn't get the clientPort correctly
<a href="#">ZOOKEEPER-285</a>	the stat command does not return the correct mode
<a href="#">ZOOKEEPER-211</a>	Not all Mock tests are working
Improvement	
<a href="#">ZOOKEEPER-64</a>	We should log system env information when initializing client/server
<a href="#">ZOOKEEPER-149</a>	c interface is missing tests against java server (mock only)
<a href="#">ZOOKEEPER-177</a>	needed: docs for JMX
<a href="#">ZOOKEEPER-214</a>	add new "stat reset" command to server admin port
<a href="#">ZOOKEEPER-217</a>	handle errors when parsing config file, throw illegalargumentexception rather than exit()
<a href="#">ZOOKEEPER-220</a>	programming guide watches section should clarify server/clientlib role in data/child watch maint.
<a href="#">ZOOKEEPER-222</a>	print C client log message timestamp in human readable form

<a href="#">ZOOKEEPER-223</a>	default log4j root logger configuration has neg perf impact with no benefit, change default level to INFO
<a href="#">ZOOKEEPER-225</a>	c client should log an info message in zookeeper_init detailing connection parameters
<a href="#">ZOOKEEPER-229</a>	improve documentation regarding user's responsibility to cleanup datadir (snaps/logs)
<a href="#">ZOOKEEPER-230</a>	Improvements to FLE
<a href="#">ZOOKEEPER-234</a>	Eliminate using statics to initialize the sever. Should allow server to be more embeddable in OSGi enviorments.
<a href="#">ZOOKEEPER-243</a>	add SEQUENCE flag documentation to the programming guide
<a href="#">ZOOKEEPER-246</a>	review error code definition in both source and docs
<a href="#">ZOOKEEPER-248</a>	QuorumPeer should use Map interface instead of HashMap implementation.
<a href="#">ZOOKEEPER-259</a>	cleanup the logging levels used (use the correct level) and messages generated
<a href="#">ZOOKEEPER-260</a>	document the recommended values for server id's
<a href="#">ZOOKEEPER-263</a>	document connection host:port as comma separated list in forrest docs
<a href="#">ZOOKEEPER-265</a>	remove (deprecate) unused NoSyncConnected from KeeperState
<a href="#">ZOOKEEPER-269</a>	connectionloss - add more documentation to detail
<a href="#">ZOOKEEPER-286</a>	Make GenerateLoad use InstanceContainers
<a href="#">ZOOKEEPER-289</a>	add debug messages to nioserver select loop.
<a href="#">ZOOKEEPER-161</a>	Content needed: "Designing a ZooKeeper Deployment"
<a href="#">ZOOKEEPER-69</a>	ZooKeeper logo

**Table 1: Changes Since ZooKeeper 3.0.1**

