

Release Plan 1.0.0 (2017 Oct.)

We will bump this release version to 1.0.0, and also starting in this release we will have a slight difference in the version numbers such that:

1. We will use three digits instead of four for the release versions:
2. The first digit would indicate the major revision (starting at 1), and second indicating minor revision, and the last one number indicating the bug-fix revision; when preparing RCs of the release we will still suffix it after the release version number. I.e. *major.minor.bug-fix[-rc_number]*

Release Dates

- KIP Freeze: Sept 13, 2017 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: Sept 20, 2017 (major features merged & working on stabilization, minor features have PR, release branch cut; anything not in this state will be automatically moved to the next release in JIRA)
- Code Freeze: Oct 4, 2017 (first RC created now)
- Release: JTBD

These dates are goals and subject to change, but we expect to stay on the [Time Based Release Plan](#) unless unexpected critical issues come up. While the target release date is fixed at ~2w after code freeze, RCs will roll out as needed until the release vote passes.

The release manager is [Guozhang Wang](#).

Release Features

This is a list of key features/improvements/bugfixes that we can include with release notes (WIP):

- Java 9 support with significantly faster TLS and CRC32C implementations
- JBOD improvements: disk failure disables the failed disk instead of the broker (KIP-112/KIP-113 part 1)
- Idempotent producer supports a maximum of 5 in-flight requests per connection instead of 1
- Improved metrics (KIP-164, KIP-168, KIP-187, KIP-188, KIP-196) and logging
- Improve diagnostics for SASL and SSL authentication failures (KIP-152)
- Kafka Streams API improvements (KIP-120 / 130 / 138 / 150 / 160 / 161), and drop compatibility "Evolving" annotations

How to Contribute

Before code freeze:

- Participate in votes and discussions to land or postpone the open KIPs
- **Review patches.** We anticipate that this release will be bottlenecked mostly on reviews. The more reviewers, the more content we can fit in.
- **Write unit/integration/system tests.** We want to preserve the tradition of high-quality releases in Apache Kafka.

After code freeze:

- Write **more** unit/integration/system tests. We want to preserve the tradition of high-quality releases in Apache Kafka.
- Improve documentation
- Test the release candidates
- Open blocker JIRAs on critical issues found. Open non-blocker JIRAs on any other issues found.
- Fix critical bugs
- Review bug fixes
- Vote on RCs. Even though only PMC votes are binding, community votes are super important as we evaluate the readiness of the release

Open Issues

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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JQL and issue key arguments for this macro require at least one Jira application link to be configured

Also feel free to refer to this release [page](#) for more details of the included tickets.



Planned KIP Content

Note: The planned content is not binding - final content will be based the features committed by branch-cutting date. See [Kafka Improvement Proposals](#) for the full list of KIPs.







	KIP	JIRA	Component	Committer
1	KIP-72: Allow putting a bound on memory consumed by Incoming request	 Unable to render Jira issues macro, execution error.	Network	Jun Rao
2	KIP-112: Handle disk failure for JBOD	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao
3	KIP-113: Support replicas movement between log directories (part 1)	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao Jiangjie Qin
4	KIP-120: Cleanup Kafka Streams builder API	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
5	KIP 130: Expose states of active tasks to KafkaStreams public API	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
6	KIP-138: Change punctuate semantics	 Unable to render Jira issues macro, execution error.	Streams	Damian Guy
7	KIP-152 - Improve diagnostics for SASL authentication failures	 Unable to render Jira issues macro, execution error.	Security	Jun Rao (broker) Rajini Sivaram (client)
8	KIP 157 - Add consumer config options to streams reset tool	 Unable to render Jira issues macro, execution error.	Streams	Damian Guy
9	KIP-160: Augment KStream.print(), KStream.writeAsText()	 Unable to render Jira issues macro, execution error.	Streams	Damian Guy



10	KIP-161: streams deserialization exception handlers	 Unable to render Jira issues macro, execution error.	Streams	Damian Guy
11	KIP-162: Enable topic deletion by default	 Unable to render Jira issues macro, execution error.	Admin	Gwen Shapira
12	KIP-163: Lower the Minimum Required ACL Permission of OffsetFetch	 Unable to render Jira issues macro, execution error.	Security	Ewen Cheslack-Postava
13	KIP-164- Add UnderMinIsrPartitionCount and per-partition UnderMinIsr metrics	 Unable to render Jira issues macro, execution error.	Broker	Ewen Cheslack-Postava
14	KIP-167: Add interface for the state store restoration process	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
15	KIP-168: Add GlobalTopicCount and GlobalPartitionCount metric per cluster	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson
16	KIP-173: Add prefix to StreamsConfig to enable setting default internal topic configs	 Unable to render Jira issues macro, execution error.	Streams	Damian Guy
17	KIP-177: Consumer perf tool should count rebalance time	 Unable to render Jira issues macro, execution error.	Tooling	Jason Gustafson
18	KIP-182: Reduce Streams DSL overloads and allow easier use of custom storage engines	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang

19	KIP-187 - Add cumulative count metric for all Kafka rate metrics	 Unable to render Jira issues macro, execution error.	Metrics	Ismael Juma Juma
20	KIP-188 - Add new metrics to support health checks	 Unable to render Jira issues macro, execution error.	Metrics	Ismael Juma Juma
21	KIP-189: Improve principal builder interface and add support for SASL	 Unable to render Jira issues macro, execution error.	Broker	Rajini Sivaram
22	KIP-190: Handle client-ids consistently between clients and brokers	 Unable to render Jira issues macro, execution error.	Broker	Rajini Sivaram
23	KIP-191: KafkaConsumer.subscribe() overload that takes just Pattern	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson
24	KIP-192 : Provide cleaner semantics when idempotence is enabled	 Unable to render Jira issues macro, execution error.	Producer /Broker	Jason Gustafson
25	KIP-195: AdminClient.createPartitions	 Unable to render Jira issues macro, execution error.	Admin	Ismael Juma Juma
26	KIP-196: Add metrics to Kafka Connect framework	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
27	KIP-197 Connect REST API should include the connector type when describing a connector	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava

28	KIP-198: Remove ZK dependency from Streams Reset Tool	 Unable to render Jira issues macro, execution error.	Tooling	guozhang Wang
29	KIP-202 Move merge() from StreamsBuilder to KStream	 Unable to render Jira issues macro, execution error.	Streams	Guozhang Wang

Postponed to subsequent release

	KIP	JIRA	Component	Committer
1	KIP-48 Delegation token support for Kafka	 Unable to render Jira issues macro, execution error.	Security	?
2	KIP-81: Bound Fetch memory usage in the consumer	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson
3	KIP-91 Provide Intuitive User Timeouts in The Producer	 Unable to render Jira issues macro, execution error.	Producer	Jiangjie Qin
4	KIP-113: Support replicas movement between log directories (part 2)	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao
5	KIP-118: Drop Support for Java 7	 Unable to render Jira issues macro, execution error.	Build	guozhang Wang
6	KIP-150 - Kafka-Streams Cogroup	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang

7	KIP-180: Add a broker metric specifying the number of consumer group rebalances in progress	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson
8	KIP-183 - Change PreferredReplicaLeaderElectionCommand to use AdminClient	 Unable to render Jira issues macro, execution error.	Tools/Broker	Ismael Juma Juma