

Release Plan 0.11.0.0

Release Dates

- KIP Freeze: May 10, 2017 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: May 17, 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: May 31, 2017 (first RC created now)
- Release: June 14, 2017

Release Manager

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 [Ismael Juma Juma](#).

Release Features

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

- Exactly-once delivery and transactional messaging
- Streams exactly-once semantics
- AdminClient
- Record headers
- Request rate quotas
- Improved resiliency: replication protocol improvement and single-threaded controller

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 system tests.** We want to preserve the tradition of high-quality releases in Apache Kafka.

After code freeze:

- Test the release candidates
- Open bugs on important issues found
- Fix 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

Planned KIP Content

Note: The planned content is not binding - final content will be based the features committed by branch-cutting date.

KIP	JIRA	Component	Committer
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1	KIP-54: Sticky Partition Assignment Strategy	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson
2	KIP-66: Single Message Transforms for Kafka Connect (items not included in 0.10.2.0)	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
3	KIP-82 - Add Record Headers	 Unable to render Jira issues macro, execution error.	Multiple	Jason Gustafson
4	KIP-98 - Exactly Once Delivery and Transactional Messaging	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Multiple	guozhang Wang , Jason Gustafson , Jun Rao , Ismael Juma Juma

5	KIP-101 - Alter Replication Protocol to use Leader Epoch rather than High Watermark for Truncation	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Replication	Jun Rao
6	KIP-106 - Change Default <code>unclean.leader.election.enabled</code> from True to False	 Unable to render Jira issues macro, execution error.	Controller	Ismael Juma Juma
7	KIP-107: Add <code>purgeDataBefore()</code> API in AdminClient	 Unable to render Jira issues macro, execution error.	Multiple	Jiangjie Qin
8	KIP-109: Old Consumer Deprecation	 Unable to render Jira issues macro, execution error.	Consumer	Ismael Juma Juma
9	KIP-114: KTable state stores and improved semantics	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
10	KIP-115: Enforce <code>offsets.topic.replication.factor</code> upon <code>__consumer_offsets</code> auto topic creation	 Unable to render Jira issues macro, execution error.	Request handling	Ewen Cheslack-Postava
11	KIP-117: Add a public AdminClient API for Kafka admin operations	 Unable to render Jira issues macro, execution error.	Admin Client	Ismael Juma Juma

12	KIP-119: Drop Support for Scala 2.10 in Kafka 0.11	 Unable to render Jira issues macro, execution error.	Build	Ewen Cheslack-Postava
13	KIP-121: Add KStream peek method	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
14	KIP-122: Add Reset Consumer Group Offsets tooling	 Unable to render Jira issues macro, execution error.	Tools	Jason Gustafson
15	KIP-123: Allow per stream/table timestamp extractor	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
16	KIP-124 - Request rate quotas	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao
17	KIP-126 - Allow KafkaProducer to split and resend oversized batches.	 Unable to render Jira issues macro, execution error.	Clients	Joel Koshy
18	KIP-128: Add ByteArrayConverter for Kafka Connect	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava

19	KIP-129: Streams Exactly-Once Semantics	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
20	KIP-133: Describe and Alter Configs Admin APIs	 Unable to render Jira issues macro, execution error.	AdminClient	Jun Rao
21	KIP-134: Delay initial consumer group rebalance	 Unable to render Jira issues macro, execution error.	Group Coordinator	guozhang Wang
22	KIP-136: Add Listener name to SelectorMetrics tags	 Unable to render Jira issues macro, execution error.	Metrics	Ismael Juma Juma
23	KIP-137: Enhance TopicCommand --describe to show topics marked for deletion	 Unable to render Jira issues macro, execution error.	Tools	Ismael Juma Juma
24	KIP-140: Add administrative RPCs for adding, deleting, and listing ACLs	 Unable to render Jira issues macro, execution error.	AdminClient	Ismael Juma Juma
25	KIP-143: Controller Health Metrics	 Unable to render Jira issues macro, execution error.	Controller	Jun Rao

26	KIP-144: Exponential backoff for broker reconnect attempts	 Unable to render Jira issues macro, execution error.	Clients	Ismael Juma Juma
27	KIP-146 - Classloading Isolation in Connect	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
28	KIP-151 Expose Connector type in REST API	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
29	KIP-153: Include only client traffic in BytesOutPerSec metric	 Unable to render Jira issues macro, execution error.	Metrics	Ismael Juma Juma
30	KIP-154 Add Kafka Connect configuration properties for creating internal topics	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
31	KIP 155 - Add range scan for windowed state stores	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
32	KIP 156 Add option "dry run" to Streams application reset tool	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang

See [Kafka Improvement Proposals](#) for the full list of KIPs.

KIPs Bumped to Next Release

KIP	JIRA	Component	Committer	Notes
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1	KIP-48 Delegation token support for Kafka	 Unable to render Jira issues macro, execution error.	Security		PR not available
2	KIP-72: Allow putting a bound on memory consumed by Incoming request	 Unable to render Jira issues macro, execution error.	Network	Jun Rao	It was deemed safer to merge this to trunk early in the release cycle for the next release.
3	KIP-81: Bound Fetch memory usage in the consumer	 Unable to render Jira issues macro, execution error.	Consumer		Has a dependency on KIP-72 (which is still in progress) and there is no PR available, seems prudent to postpone it to the subsequent release.
4	KIP-112: Handle disk failure for JBOD	 Unable to render Jira issues macro, execution error.	Broker		Needs more review time and makes sense to be part of the same release as KIP-113.
5	KIP-118: Drop Support for Java 7	 Unable to render Jira issues macro, execution error.	Build		Postponed for a variety of reasons
6	KIP-120: Cleanup Kafka Streams builder API	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	Unable to review it in time for the feature freeze

7	KIP-138: Change punctuate semantics	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	High impact change that needs more time to review
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