

Release Plan 2.7.0 (Nov 2020)

Release Dates

- KIP Freeze: Sep 30, 2020 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: Oct 7, 2020 (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 21, 2020
- Released Dec 21, 2020

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 [Bill Bejeck](#)

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	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
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No issues found

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
KIP-662: Throw Exception when Source Topics of a Streams App are Deleted	KAFKA-10355 - Handle accidental deletion of source-topics as exceptional failure CLOSED	Kafka Streams
KIP-654: Aborted transaction with non-flushed data should throw a non-fatal exception	KAFKA-10186 - Aborting transaction with pending data should throw non-fatal exception RESOLVED	Kafka Clients
KIP-651 - Support PEM format for SSL certificates and private key	KAFKA-10338 - Support PEM format for SSL certificates and private key RESOLVED	Core

KIP-648: Renaming getter method for Interactive Queries	 KAFKA-10316 - Consider renaming getter method for Interactive Queries RESOLVED	Kafka Streams
KIP-632: Add DirectoryConfigProvider	 KAFKA-7370 - Enhance FileConfigProvider to read a directory RESOLVED  KAFKA-10211 - Add DirectoryConfigProvider RESOLVED	
KIP-626: Rename StreamsConfig config variable name	 KAFKA-10168 - Rename public StreamsConfig variable RESOLVED	Kafka Streams
KIP-620 Deprecate ConsumerConfig#addDeserializerToConfig and ProducerConfig#addSerializerToConfig	 KAFKA-10044 - Deprecate ConsumerConfig#addDeserializerToConfig and ProducerConfig#addSerializerToConfig RESOLVED	Kafka Clients
KIP-617: Allow Kafka Streams State Stores to be iterated backwards	 KAFKA-9929 - Support reverse iterator on WindowStore RESOLVED	Kafka Streams
KIP-616: Rename implicit Serdes instances in kafka-streams-scala	 KAFKA-10020 - KIP-616: Rename implicit Serdes instances in kafka-streams-scala RESOLVED	Kafka Streams
KIP-613: Add end-to-end latency metrics to Streams	 KAFKA-10054 - Add TRACE-level end-to-end latency metrics to Streams RESOLVED	Kafka Streams
KIP-612: Ability to Limit Connection Creation Rate on Brokers	 KAFKA-10023 - Enforce broker-wide and per-listener connection creation rate (KIP-612, part 1) RESOLVED	Core
KIP-607: Add Metrics to Kafka Streams to Report Properties of RocksDB	 KAFKA-9924 - Add RocksDB Memory Consumption to RocksDB Metrics CLOSED	Kafka Streams
KIP-601: Configurable socket connection timeout in NetworkClient	 KAFKA-9893 - Configurable TCP connection timeout and improve the initial metadata fetch RESOLVED	Core
KIP-599: Throttle Create Topic, Create Partition and Delete Topic Operations	 KAFKA-9915 - Throttle Create Topic, Create Partition and Delete Topic Operations RESOLVED	Core
KIP-597: MirrorMaker2 internal topics Formatters	 KAFKA-10232 - MirrorMaker2 internal topics Formatters RESOLVED	
KIP-584: Versioning scheme for features	 KAFKA-9755 - Implement versioning scheme for features OPEN	
KIP-572: Improve timeouts and retries in Kafka Streams	 KAFKA-9274 - Gracefully handle timeout exceptions on Kafka Streams RESOLVED	Kafka Streams
KIP-554: Add Broker-side SCRAM Config API	 KAFKA-10259 - KIP-554: Add Broker-side SCRAM Config API RESOLVED	Core
KIP-545: support automated consumer offset sync across clusters in MM 2.0	 KAFKA-9076 - MirrorMaker 2.0 automated consumer offset sync RESOLVED	Mirror Maker 2.0
KIP-497: Add inter-broker API to alter ISR	 KAFKA-8836 - Add inter-broker protocol to alter ISR RESOLVED	Core
KIP-478 - Strongly typed Processor API	 KAFKA-8410 - Strengthen the types of Processors, at least in the DSL, maybe in the PAPI as well RESOLVED	Kafka Streams
KIP-450: Sliding Window Aggregations in the DSL	 KAFKA-5636 - Add Sliding-Window support for Aggregations RESOLVED	Kafka Streams
KIP-431: Support of printing additional ConsumerRecord fields in DefaultMessageFormatter	 KAFKA-6733 - Support of printing additional ConsumerRecord fields in DefaultMessageFormatter RESOLVED	Kafka Tools

Postponed to subsequent release

KIP	JIRA	Component
KIP-671: Introduce Kafka Streams Specific Uncaught Exception Handler	 KAFKA-9331 - Add option to terminate application when StreamThread(s) die CLOSED  KAFKA-6943 - Have option to shutdown KS cleanly if any threads crashes, or if all threads crash CLOSED	Kafka Streams
KIP-653: Upgrade log4j to log4j2	 KAFKA-9366 - Upgrade log4j to log4j2 IN PROGRESS	
KIP-623: Add "internal-topics" option to streams application reset tool	 KAFKA-6435 - Application Reset Tool might delete incorrect internal topics RESOLVED	Kafka Streams
KIP-608 - Expose Kafka Metrics in Authorizer	 KAFKA-9958 - Expose Kafka Metrics in Authorizer OPEN	Core
KIP-590: Redirect Zookeeper Mutation Protocols to The Controller	 KAFKA-9705 - Zookeeper mutation protocols should be redirected to Controller only OPEN	Core
KIP-589 Add API to update Replica state in Controller	 KAFKA-9837 - New RPC for notifying controller of failed replica IN PROGRESS	Core
KIP-588: Allow producers to recover gracefully from transaction timeouts	 KAFKA-9803 - Allow producers to recover gracefully from transaction timeouts OPEN	Kafka Clients
KIP-580: Exponential Backoff for Kafka Clients	 KAFKA-9800 - [KIP-580] Client Exponential Backoff Implementation RESOLVED	Kafka Clients
KIP-508: Make Suppression State Queriable	 KAFKA-8403 - Make suppression results queriable IN PROGRESS	Kafka Streams
KIP-466: Add support for List<T> serialization and deserialization	 KAFKA-8326 - Add Serde<List<Inner>> support RESOLVED	
KIP-418: A method-chaining way to branch KStream	 KAFKA-5488 - KStream.branch should not return a Array of streams we have to access by known index CLOSED	Kafka Streams
KIP-373: Allow users to create delegation tokens for other users	 KAFKA-6945 - Add support to allow users to acquire delegation tokens for other users RESOLVED	
KIP-359: Verify leader epoch in produce requests	 KAFKA-7383 - Verify leader epoch in produce requests (KIP-359) OPEN	Core
KIP-280: Enhanced log compaction	 KAFKA-7061 - Enhanced log compaction IN PROGRESS	Core
KIP-216: IQ should throw different exceptions for different errors	 KAFKA-5876 - IQ should throw different exceptions for different errors IN PROGRESS	Kafka Streams
KIP-81: Bound Fetch memory usage in the consumer	 KAFKA-4133 - Provide a configuration to control consumer max in-flight fetches OPEN	Kafka Clients