

Release Plan 3.5.0

Release Dates

- KIP Freeze: 22 Mar 2023 (A KIP must be accepted by this date in order to be considered for this release. Note, any KIP that may not be implemented in a week, or that might destabilize the release, should be deferred.)
- Feature Freeze: 12 Apr 2023 (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: 26 Apr 2023
- At least two weeks of stabilization will follow Code Freeze.

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 earliest possible release date is 2w after code freeze, release candidates (RCs) will roll out as needed until the release vote passes.

The release manager is [Mickael Maison](#)

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, as it usually happens, 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 release candidates. 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	Priority	Priority	Priority	Priority	P	Status	Re:
KAFKA-14956	Flaky test org.apache.kafka.connect.integration.OffsetsApilitegrationTest#testGetSinkConnectorOffsetsDifferentKafkaClusterTargeted		May 02, 2023	Sep 29, 2023		Yash Mayya	Sagar Rao						REOPENED	Un

1 issue

Also feel free to refer to the [3.5.0 release page](#) for more details of the included tickets (requires log in to the Apache Kafka Jira project).

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	Status
KIP-399: Extend ProductionExceptionHandler to cover serialization exceptions	KAFKA-7499 - Extend ProductionExceptionHandler to cover serialization exceptions RESOLVED	Streams	Done
KIP-581: Value of optional null field which has default value	KAFKA-8713 - [Connect] JsonConverter NULL Values are replaced by default values even in NULLABLE fields RESOLVED	connect	Done

KIP-641: An new java interface to replace 'kafka.common.MessageReader'	 KAFKA-10244 - An new java interface to replace 'kafka.common.MessageReader' RESOLVED	tool/client	Done
KIP-710: Full support for distributed mode in dedicated MirrorMaker 2.0 clusters	 KAFKA-10586 - Full support for distributed mode in dedicated MirrorMaker 2.0 clusters RESOLVED	connect	Done
KIP-847: Add ProducerIdCount metrics	 KAFKA-13990 - Add ProducerCount metrics (KIP-847) RESOLVED	core	Done
KIP-875: First-class offsets support in Kafka Connect	 KAFKA-4107 - Support offset reset capability in Kafka Connect RESOLVED	connect	Partially Done Includes internal changes + list offsets API
KIP-881: Rack-aware Partition Assignment for Kafka Consumers	 KAFKA-14352 - Support rack-aware partition assignment for Kafka consumers RESOLVED	client	Done (updated assignors, 3.4 only had the new protocol)
KIP-884: Add config to configure KafkaClientSupplier in Kafka Streams	 KAFKA-14395 - Add config to configure client supplier for KafkaStreams RESOLVED	Streams	Done
KIP-887: Add ConfigProvider to make use of environment variables	 KAFKA-14376 - Add ConfigProvider to make use of environment variables RESOLVED	clients	Done
KIP-889: Versioned State Stores	 KAFKA-14401 - Introduce Versioned Key-Value Stores to Kafka Streams RESOLVED	Streams	Done
KIP-893: The Kafka protocol should support nullable structs	 KAFKA-14425 - The Kafka protocol should support nullable structs RESOLVED	core	Done
KIP-894: Use incrementalAlterConfig for syncing topic configurations	 KAFKA-14420 - MirrorMaker should not clear filtered configs on target topics RESOLVED	connect	Done
KIP-900: KRaft kafka-storage.sh API additions to support SCRAM for Kafka Brokers	 KAFKA-14765 - Support SCRAM for brokers at bootstrap RESOLVED	core	Done
KIP-903: Replicas with stale broker epoch should not be allowed to join the ISR	 KAFKA-14139 - Replaced disk can lead to loss of committed data even with non-empty ISR RESOLVED	core	Done
KIP-904: Kafka Streams - Guarantee subtractor is called before adder if key has not changed	 KAFKA-12446 - Define KGroupedTable#aggregate subtractor + adder order of execution RESOLVED	Streams	Done (system test missing)
KIP-907: Add Boolean Serde to public interface	 KAFKA-14722 - Make BooleanSerde public RESOLVED	Streams	Done
KIP-911: Add source tag to Mirror source metric	 KAFKA-14740 - Missing source tag on MirrorSource metrics RESOLVED	connect	Done
KIP-914: DSL Processor Semantics for Versioned Stores	 KAFKA-14834 - Improved processor semantics for versioned stores RESOLVED	Streams	Done
KIP-915: Txn and Group Coordinator Downgrade Foundation	 KAFKA-14869 - txn and group coordinator downgrade foundation RESOLVED	core	Done

Postponed to subsequent release

KIP	JIRA
KIP-405: Kafka Tiered Storage	 KAFKA-7739 - Kafka Tiered Storage RESOLVED
KIP-726: Make the "cooperative-sticky, range" as the default assignor	 KAFKA-12473 - Make the "cooperative-sticky, range" as the default assignor RESOLVED

KIP-770: Replace "buffered.records.per.partition" with "input.buffer.max.bytes"	 KAFKA-13152 - Replace "buffered.records.per.partition" & "cache.max.bytes.buffering" with "{statestore.cache}/{input.buffer}.max.bytes" REOPENED
KIP-797: Accept duplicate listener on port for IPv4/IPv6	 KAFKA-13299 - Accept listeners that have the same port but use IPv4 vs IPv6 RESOLVED
KIP-813: Shareable State Stores	 KAFKA-10892 - Add Topology#connectSourceStoreAndTopic as a public method RESOLVED
KIP-821: Connect Transforms support for nested structures	 KAFKA-13656 - Connect Transforms support for nested structures OPEN
KIP-863: Reduce <code>Fetcher#parseRecord()</code> memory copy	 KAFKA-14715 - Reduce <code>Fetcher#parseRecord()</code> memory copy OPEN
KIP-866 ZooKeeper to KRaft Migration	 KAFKA-14304 - ZooKeeper to KRaft Migration OPEN
KIP-898: Modernize Connect plugin discovery	 KAFKA-14627 - Modernize Connect plugin discovery RESOLVED