# KIP-29 - Add an IsrPropagateIntervalMs configuration to KafkaConfig

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#### Status

Current state: ["Under Discussion"

Discussion thread: here

JIRA: *KAFKA-2406* 

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

#### Motivation

This KIP is related to KIP-4, KAFKA-1367 and KAFKA-2406. In the future, all the Kafka clients and admin tools will not access zookeeper directly. Therefore KAFKA-1367 was introduced to propagate the ISR change to all the brokers to sync up topic metadata on brokers. The approach is to create a ZK path to notify controller update ISR and send UpdateMetadataRequest to brokers. The issue is during a broker bounce or failure, the amount of ISR change are huge and overwhelm the controller. This KIP is to introduce a new config to batch the ISR update and throttle the ISR propagation rate.

#### **Public Interfaces**

Default value for the config will be set to 5 seconds.

### **Proposed Changes**

Add a new config **IsrPropagateIntervalMs** to KafkaConfig. The broker will only propagate ISR change at most every IsrPropagateIntervalMs. The propagation will create a sequential ZK path in zookeeper /isr\_change\_notification with data of all the partition whose ISR has changed since last propagation.

## Compatibility, Deprecation, and Migration Plan

This is a backward compatible change.

## Rejected Alternatives

None