Razorback Requirements Document

**Q2 Local Cache RPC**

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## 

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## Introduction

The dispatcher will need to be able to perform a number of operations on the local cache of any single nugget on the system to make sure that the local caches are coherent with the rest of the system.

## Customer Focus Statement

This will allow all the caches in the system to remain in sync to allow for normal operation of the system as a whole.

## Requirements

### Messages

* The dispatcher must be able to perform the following operations on a nuggets local cache:
  + Add an entry
  + Update an entry
  + Delete an entry
  + Flush the cache.

## Implementation

The cache control messages will be sent via the Disposition direct response queue for a nugget. The disposition response processor for the API instance will be responsible for performing the operation defined in the message on the local cache using its API.

The add and update messages must include:

* Cache type
* Key
* SF\_Flags
* Ent\_Flags

The delete message must include:

* Cache type
* Key

The flush message must include:

* Cache type

## Metrics

* Number of remote adds
* Number of remote updates
* Number of remote deletes
* Number of remote flushes.

## Impact

* The send and receive code will be integrated into the API.
* The callers for sending these messages will be in the dispatcher.
* The message processing will take place in the API.

## Future Work

### Enhancements

* TDB