

# **Prompt Processing**

# **Status**

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### **DMTN-219**





## Playbook for Prototype



### **Quick Live Demo**



### **Future Task List**



#### **Future Task List**

- Actually build out the middleware interface with a real calibration repo. Ensure that performance is adequate. Work with Middleware to optimize anything that isn't.
- Choose a messaging infrastructure. Kafka seems reasonable for next\_visit: it
  already exists, performance is less critical, it is reliable, it is well-understood. Apache
  Camel might be a candidate for connecting Kafka with a webhook for invoking the
  Prompt Processing framework.
- Implement DMTN-143 copy to object store. KTL will work on this with TonyJ.
- Implement object store notifications to Prompt Processing. The alternatives here common to both MinIO and Ceph are Kafka and AMQP. While I have some concerns about Kafka in this low-latency use case, it seems the simplest to start with.



#### **Productionize and Optimize**

- Move from GCP to SLAC K8s. Set up an ingress; investigate ways to get affinity.
- If near-zero edit-to-execute latency is required, at the cost of reliability, use a shared filesystem for the stack code.
- If full-focal-plane visit-wide processing is required, at the cost of reliability and latency:
  - Use a shared Butler repo for intermediate results
  - Manually split pipelines into multiple steps
  - Poll Butler repo or possibly use object store notifications again
  - Using BPS has virtually no advantages over using OCPS for the same thing;
     preloading is basically impossible