



# Arch F23A Status & Plans

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U.S. DEPARTMENT OF  
**ENERGY**



# Status for F23A

Key:

Added since last vF2F

Completed, In Progress, Not Started

# Requirements and Design

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- Continue iterating on Consolidated Database design document (define data model)
  - Replaced by "live ObsCore"
- Started cross-subsystem architecture meetings
- Pushed IVOA towards JSON-oriented APIs

# Oversight and Release

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- Build engineering
  - `lsstinstall` release and incorporation into `lsstsw`
  - Jenkins worker move to USDF
  - MatthiasW (PyPI, legacy packages, v24, v25, reusable workflows, `timeout log capture`, `stack containers`)
  - JamesT (`Jenkins controller move`)
- `rubin-env 4.1.0` and `rubin-env-rsp`

# Investigation and Coding — Middleware

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- Provenance
- Dataset annotations (if part of butler or butler adjacent — DMTN-204)
- Resolve handling of metrics (Datastore backends?)
- Graph-backed registry for batch production
- Support Rucio work
- Support prompt processing
- Support Campaign Management
- pipetask Python API
- Butler client/server
- Gen2 removal
- Butler Registry schema migration
- "Live" ObsCore

# Investigation and Coding — Other

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- Productionize (but not optimize) Prompt Processing
  - Build next\_visit Kafka into prototype
  - Transfer outputs to permanent Butler repo
  - Post metric outputs to SQuaSH/Sasquatch/EFD
  - Move to SLAC K8s if available
- Consolidated Database prototype
  - Per-visit EFD summary
- DMTN-143
  - Rolled out to TTS, STS, (BTS)
  - Raw image upload service if needed
- Portal integration (Felis schemas, SODA, DataLink, HiPS maps)

# Pre-Ops

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- Integration and standing up USDF (somewhat harder than expected)
  - Shared stack rewrite
- Campaign Management
- Security
- Hybrid model
- Rucio/Butler/PanDA integration

# Plans for F23B



# Requirements and Design

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- Butler client/server design

# Oversight and Release

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- Build engineering
  - lsstinstall release and incorporation into lsstsw
  - MatthiasW (v24, v25, reusable workflows, stack containers)
  - JamesT (Jenkins controller move)
- rubin-env 5.0.0 and rubin-env-developer

# Investigation and Coding — Middleware

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- "Live" ObsCore
- Graph-backed registry for batch production
- Butler client/server
- Support Rucio work
- Support prompt processing
- pipetask Python API
- Provenance
- Resolve handling of metrics (Datastore backends?)

# Investigation and Coding – Other

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- Productionize (but not optimize) Prompt Processing
  - Build next\_visit Kafka into prototype
  - Post metric outputs to Sasquatch
  - Move to SLAC knative
- DMTN-143
  - Visit definition
  - Raw image upload service if needed
- OCPS improvements

- Integration and standing up USDF
  - Data transfer once disk arrives
  - LFA
- Campaign Management
- Security
- Hybrid model
- Rucio/Butler/PanDA integration