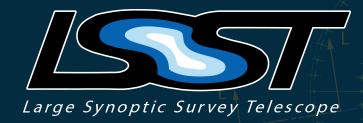
# Gen3 Middleware Feb 2019

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# Agenda

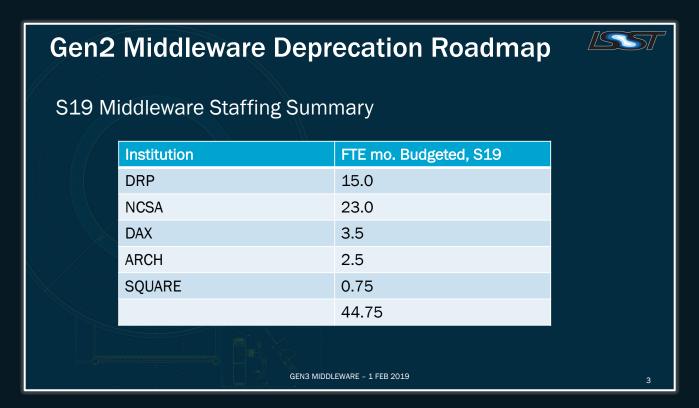


- Sprint and goals since Feb 1
  - Feb 1 demo was clarifying and improved team focus
  - We've picked a new target; let's do it again!
- Roadmap refinements since since Feb 1
  - How has the new goal and the latest thinking affected roadmap sketch presented Feb 1?
  - Time to secure/affirm resource commitments from T/CAMs for S19B!
- Futures

### **Sprint and Goals**



- Themes
  - Burn down uncertainties re. BG3 registry in Oracle
  - Continue to scale up workflow
  - Kick start LSP migration to Gen3 middleware
- Targets
  - Running monthly HSC RC2 reprocessing with Gen3 middleware, using Oracle registry backend and Pegasus workflow
  - Demonstrate access to output products from an LSP instance at NCSA (Oracle registry + GPFS DataStore)
  - Planning for demo at May DMLT
  - More details
     https://confluence.lsstcorp.org/display/DM/Gen3+Milestone+FY2019-2



 T/CAMs: Are these allocations still in your S19B plans?

#### **Gen2 Middleware Deprecation Roadmap**



#### Stabilization Phase

Milestone: PipelineTask API Stability

PipelineTask specialization and command-line interfaces reviewed. Problems identified; API-breakers addressed. (~2 FTE mo. remaining, anticipated 5/19)

Milestone: Data Repo Stability

Forward compatibility of SQLite/Posix datastores assured from this point. (~2 FTE mo. remaining, anticipated 5/19)

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- Probably best delayed post May demo to incorp. lessons learned
- Look for design reviews scheduled early June

#### **Gen2 Middleware Deprecation Roadmap**



Migration Phase

Pipeline Development

- Milestone: DRP on Gen3
   (~9 FTE mo. remaining, anticipated 5-8/19)
- Milestone: AP on Gen3
- Milestone: CPP on Gen3

(~ 4 FTE mo. estimated, anticipated >4/19)

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 Need feedback from T/CAMs on what resources and when

- Anticipated support from DRP pathfinders
- G3 port-a-thon at PCW?

#### **Gen2 Middleware Deprecation Roadmap**



Migration Phase (cont.)

Service Development

- Milestone: LSP dev on Gen3
   (~2 FTE mo. estimated, anticipated 8/19)
- Milestone: OODS dev on Gen3
   (~1 FTE mo. estimated, anticipated >3/19)

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 LSP work to start soon; SQuaRE resources avail?

 OODS port still resourced S19B?

#### **Gen2 Middleware Deprecation Roadmap**



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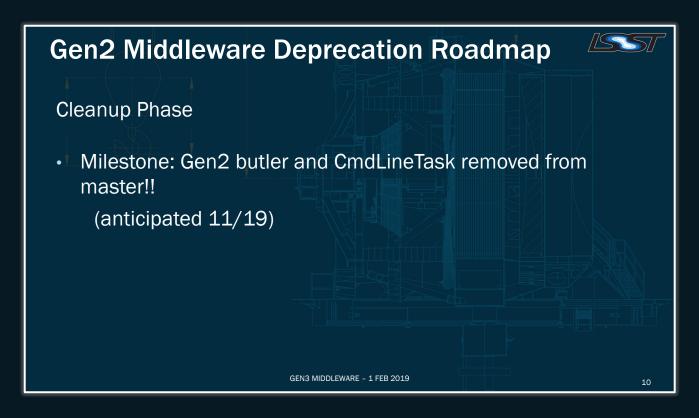
**Operation Phase** 

- Production runs start as cntl\_pool and migrate to Pegasus as features become available. Requires ingest and cntl\_pool.
   Eachrun will use new sqlite repro to isolate changes between runs.
- LSP will create their own SQLite registries or use shared ones for their work generated from the (readonly) DBB.
- Summit/Base will create their own sqlite registries from the OODS with risk of slowdown of image capture from the DAQ
- Oracle work and moving to single user Oracle and schema development continues.

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- A hard part: Gen2 oper. parity
- Tilt schedule toward burning down NCSA concerns



 Sticking with this target as of Feb 2019!

### **Futures**



- Is DAX/SLAC the most sensible place from which to pilot continued middleware development beyond current goal of BG2 deprecation?
- Sad to hear doubts expressed by John yesterday re. formerly stated plan to search/hire dedicated MW czar. Rationale?