Roadmap to Deprecation of Gen2 Butler

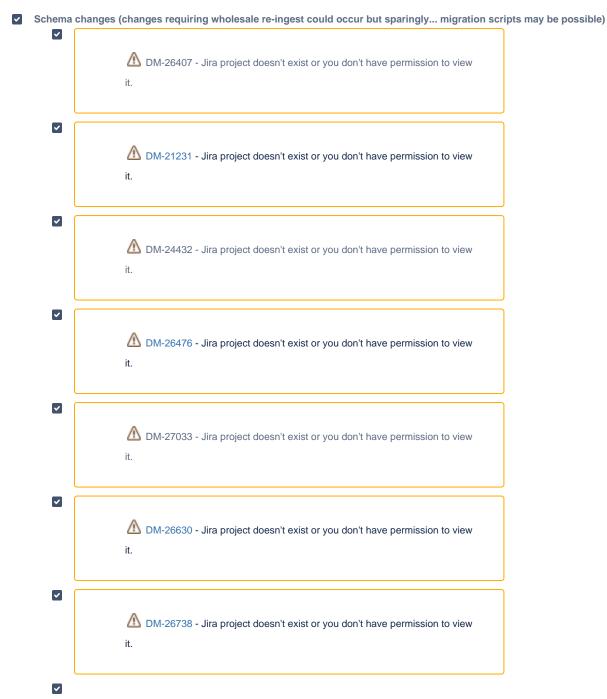
Checklist: Gen3 ready for general use within DM and encouraged for advanced users (DM-DAX-12 Feature Parity)

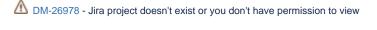
List of potential

We are aiming for November 1st.

Planned Work

Tickets indicate planned work. Checkboxes without tickets are (hopefully) all statements about functionality that is available.

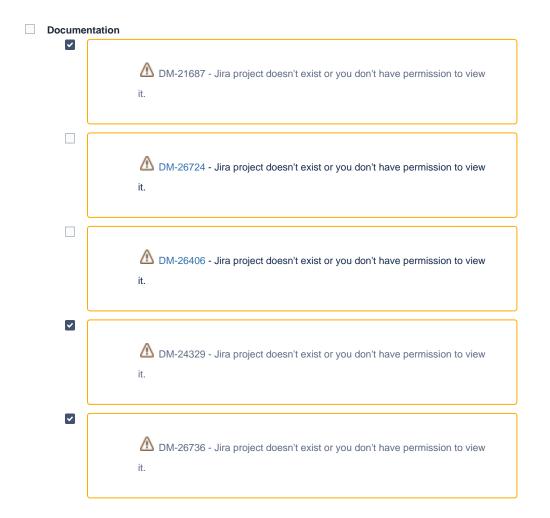




it.







Open Questions

Raw Ingest works (caveat:	M-21706 - Jira project doesn't exist or you don't have permission to view it.) but:					
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- still an open question as when to run define-visits.
- Handling of photo diodes for BOT will need special ingest script and associated formatter infrastructure.
- We are still dependent on the Filter singleton being removed if we wish to combine multiple instruments in a repository.

Acceptance Tests

We regularly run small test pipeline with Postgres. ci_hsc_gen3 runs entirely with gen3 on a single node with multiprocessing and sqlite/local file. Google POC has demonstrated we can run an RC2 tract with condor using S3+Postgres (DMTN-157). These tests all assume shared everything where multiple users are using a shared datastore and a shared postgres database. These tests can not be complete given the current status of cp_pipe with Gen3 and the lack of jointcal.

- Run a pipeline on a single node using pipetask
 - Access data products of that run from a notebook
- Run a 3 tract RC2 in under a week on NCSA Condor system using BPS
- cp_pipe equivalent available (recipe + example)
- run RC2-like processing (not necessarily full-scale) (https://github.com/lsst-dm/gen2-hsc-rc2 & https://paper.dropbox.com/doc/Using-HSC-RC2-to-test-algorithms-on-tract-scale-LIXxHweXU2ZOnuJB6cMZ0)
- run DC2-like processing (not necessarily full-scale)
- can run CPP corresponding to appropriate above scales
- Ingest all the raw datasets that are currently hosted at NCSA for supported instruments.

Below this point is open for discussion but pertains more to Gen2 deprecation (list of appropriate tickets)

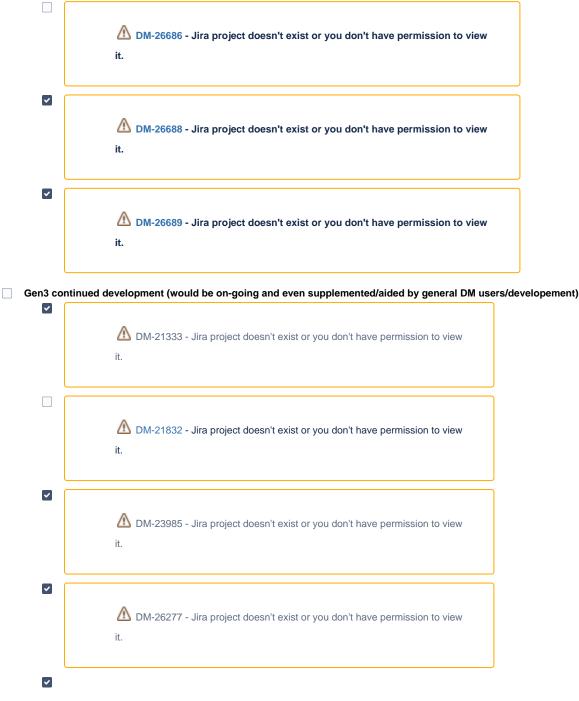
DM-26173 Write plan for Gen2 deprecation

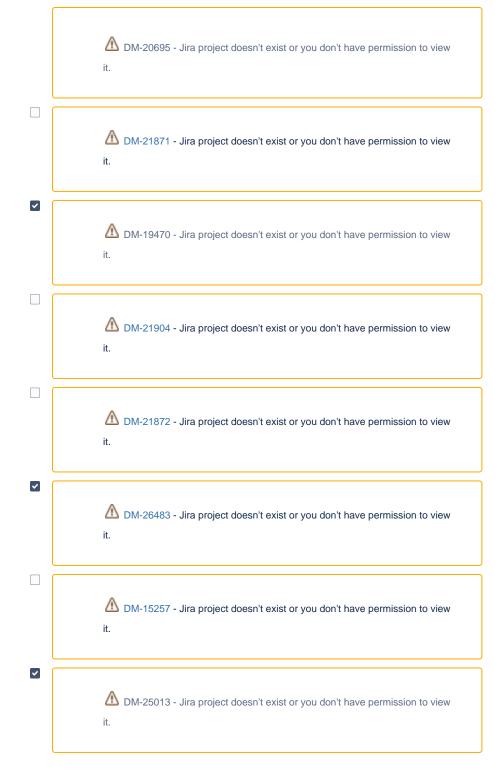
Remaining Checklist: DM-DAX-13 (Gen3 ready for Gen2 Deprecation)

Select any items below that are required for Gen2/3 parity and hence need to be completed by Nov 1st.

All Schema changes are accompanied but a migration mechanism (or have appropriate CCB approval).

Additional command-line tooling (functionality already accessible from Python, which we think is adequate for declaring feature parity in these cases)





Support for core testing/development

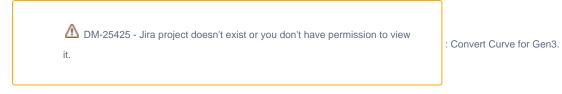
▲ DM-23576 - Jira project doesn't exist or you don't have permission to view it.

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HSC RC2 Data Processing Parity Checklist (Tasks for Science Pipelines)

	A DM-20695 - Jira project doesn't exist or you don't have permission to view it.	: PsfWcs	sSelectIm	nagesTask: Task to select
images f	or coaddition			
	A DM-19470 - Jira project doesn't exist or you don't have permission to view it.	: Fit astr	ometry vi	a Jointcal
	A DM-26791 - Jira project doesn't exist or you don't have permission to view it.	: Fit phc	otometry	via FGCM
	it.	: Apply J	lointcal a	nd FGCM calibrations during
coadditio	n			
	A DM-22277 - Jira project doesn't exist or you don't have permission to view it.	: Write T	ransform	Consolidate Source Table
Task				
	A DM-24638 - Jira project doesn't exist or you don't have permission to view it.	: Write T	ransform	Consolidate Object Table
Task				
Calibratio	on Products Generation M DM-21786 - Jira project doesn't exist or you don't have permission to vie it.	w	: Conver	rt PTC code for Gen3.
	DM-24704 - Jira project doesn't exist or you don't have permiss it.	ion to vie	₩	: Convert Brighter-Fatter
	Kernel code for Gen3.			
v	M DM-25424 - Jira project doesn't exist or you don't have permission to vie it.	w	: Conver	rt Defects for Gen3.
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QA tools intentionally not on this list.