

Previous month PT 1.1 - Mgt/SE

Current month Mgt/SE

Next month PT1.1 - Mgt/SE

**Guide on Reporting Percentage Completed:**

For software development tasks:

- use 0% if the solution is still being designed;
- use 25% if the solution's design is completed;
- use 50% if the solution is implemented and tested within the Ticket branch;
- use 75% if the implementation review is complete, the Ticket branch has been merged onto the Trunk branch, and the Ticket is closed.
- use 100% if the affected Trunk packages are tagged and released.

For level of effort tasks, use % of effort expended rounded to nearest 5%:

For other tasks, still use these increments, but apply their meaning as best as possible:

- use 0% if the deliverable is still being designed;
- use 25% if the deliverable's design is completed;
- use 50% if the deliverable is implemented awaiting review/approval;
- use 75% if the deliverable has been reviewed and in revision;
- use 100% if the deliverable is approved and posted to appropriate repository.

**Note:** Please place an asterisk (\*) after the percent if you updated this value in this report.

Task	Start	Finish	Resources (lead first)	% Complete	Comments	Last Updated
<i>Environment and Tools</i>			<i>Plante Ray</i>			
Support trac, svn, systems administration	8/30/10	11/1/10	Pietrowicz Steve[15%]	80%		Fri 10/15/10
<i>ImSim Data</i>			<i>Krughoff Simon</i>			
Create <u>ImSim</u> Data Flow for PT 1.1 from all image generation sites	9/1/10	10/22/10	Plante Ray[25%], Krughoff Simon[25%]	50%	SK: Fields selected, staging script set up.; RP: scripts received; in final testing	Tue 10/12/10
Generate reference star galaxy catalogs (turn on magnitudes, w/improved photometry)	9/20/10	11/2/10	Krughoff Simon[30%], Gibson Rob	50%	Star catalog generation complete, bug: all stars are flagged as variable, even those that are static (not show-stopper). Galaxy generation complete to r <	Tue 10/19/10

Guide on Reporting Percentage Completed:

					23, sufficient. Reformatting for shipment to Serge M. in progress.	
Import reference catalogs into Gator for comparison to output catalogs	11/3/10	11/4/10	Monkewitz Serge[50%]	0%		NA
<i>Production-Pipeline-Stage Middleware</i>			<i>Pietrowicz Steve</i>			
Improve Logging performance, reporting, error checking	8/23/10	11/2/10	Pietrowicz Steve[10%], Daues Greg[10%]	50%	Updated in trunk, additional testing happening now; The harness issues log statements with CPU time, Sys time, Wall time for visits (tag 4.1.0.0)	Mon 10/11/10
Update Event Monitor for execution statistics	9/6/10	11/2/10	Pietrowicz Steve[15%]	50%	Updated, but additional testing required	Mon 10/11/10
Improve shutdown mechanism for data stack	11/3/10	11/3/10	Daues Greg[10%], Pietrowicz Steve[35%]	0%	Not required for production runs.	NA
Complete JobOffice? implementation to allow integration of Source Association	9/2/10	10/22/10	Plante Ray[50%]	50%	Implementation is completed; includes unit tests; need to complete integration tests	Tue 10/12/10
Automate transfer of data to/from MSS for staging/storing results of a production tool	9/9/10	10/26/10	Plante Ray[10%], Adams Darren	75%	Limited capability in 1.1, more extensive in 1.2	Tue 10/12/10
<i>Data Release Production Architecture and Performance</i>			<i>Lim KT</i>		<i>Unified pipeline tagged and released, running on Abe (GD) and LSST cluster (AB)</i>	
Merge 6 PT1 Pipelines into 2	8/25/10	10/20/10	Lim KT[50%]	100%*	Released	Mon 10/25/10
<i>Data Access Middleware and Database</i>			<i>Lim KT</i>		<i>22 columns added to Source table to support galaxy photometry.</i>	
Pass through comments in FITS headers	10/20/10	11/2/10	Lim KT[25%]	0%	Some design done, unclear if this will make PT1.1. Requires	Sun 10/10/10

					changes to afw, exposure, persistence of them. Also would implement preserving header order with this.	
Database schema updates (incl galaxy photometry)	10/22/10	11/2/10	Lim KT[5%],Dubcovsky Martin[5%]	100%*	Changes made and released in cat package.	10/25/10
Persist image characterization matches against reference catalog	10/25/10	11/1/10	Lang Dustin, Lim KT	25%*		10/25/10
<i>Point Source Photometry</i>			<i>Lupton Robert</i>		Confirmed that, within a CCD, the aperture and PSF magnitudes agree to 1%. The standard star matches are not yet being persisted, so the external check is not yet possible. We still need to confirm that the PSF models are reliable (and have acceptable QA...)	
Implement photometry/astrometry flag	10/20/10	11/2/10	Lang Dustin[50%]	0%		NA
Implement aperture corrections	8/23/10	10/26/10	Bickerton Steve[50%]	50%		Mon 10/18/10
<i>Galaxy Photometry</i>			<i>Bosch Jim</i>		<i>Local development done. Working on pipeline integration and testing.</i>	10/24/2010
Prepare for local test runs	9/2/10	10/22/10	Bosch Jim[10%],Dubcovsky Martin[50%]	100%	Workarounds in place for missing shape errors in SFM.	Sun 10/24/2010
Determine fitting code failure modes	8/23/10	10/29/10	Bosch Jim[10%],Dubcovsky Martin[50%]	50%	Testing on individual CCDs, characterizing failures (progress is essentially open-ended).	Sun 10/24/2010

Determine fitting outputs to be stored in database	10/28/10	10/29/10	Bosch Jim[10%],Dubcovsky Martin[50%]	90%	Determining additional flags for modeling failures.	Sun 10/24/2010
Update Source class for galaxy photometry, incl formatters	9/6/10	11/1/10	Monkewitz Serge[50%],Lupton Robert[50%]	25%	New meas::algorithms should support this, needs to be confirmed	Tue 10/12/10
Write stages for source fitting	9/8/10	11/4/10	Bosch Jim[10%],Dubcovsky Martin[50%]	100%	Done.	Mon 10/25/2010
<i>Source Association</i>		<i>Serge Monkewitz</i>				
Define SDQA metrics for Source Association	8/23/10	10/22/10	Monkewitz Serge[50%],Axelrod Tim[25%]	25%	initial proposal sent to Tim	Fri 8/27/10
Implement SDQA metrics for Source Association	8/26/10	11/2/10	Monkewitz Serge[50%]	25%	Implemented coverage map generation (for determining the expected maximum number of sources for an object at a given position). Began implementing reference to output object catalog cross-matching - so far, I've got code that filters the reference catalog	Thu 9/16/10
Change Source Association to use inverse variance weighting and calibrated fluxes	11/2/10	11/4/10	Monkewitz Serge[50%]	0%		NA
<i>Build and Test</i>		<i>Allsman Robyn</i>				
Monitor buildbot integration and test	9/6/10	10/29/10	Allsman Robyn[25%]	80%	All slaves using anonymous svn access. Upgrading slaves to use gcc 4.4 to bring into alignment with development software environment	Mon 10/18/10

<i>Production Runs</i>		<i>Daues Greg</i>				
App debug/practice runs on lsst with <u>ImSim</u> data	10/20/10	11/2/10	Daues Greg[10%]	0%		NA
Abe runs with <u>ImSim</u> data subsets	11/5/10	11/18/10	Daues Greg[50%]	15%*	A practice run has processed Imsim visit v85661762-fr (189 CCDs) using the 4.1.0.x software stack with no reported errors/exceptions. A 6-visit run will be initiated after Apps updates in response to the 1-visit run are complete. Want to freeze stack on 11/1/10, will do a series of runs between now and then. Want 3-day turn-around on fixes.	Fri 10/15/10
<i>User Support</i>		<i>Shaw Dick</i>				
Prepare Data Challenge Handbook	8/23/10	11/2/10	Shaw Dick[50%]	60%*	Awaiting requested input on details of processing algorithms. Awaiting bug fix to public data access mechanism, so that testing and documentation can be finalized. Sent DCH to M.Strauss for editorial review. Technical review now planned for 5-Nov.	10/21/10
Organize DM User Support	9/20/10	11/9/10	Shaw Dick[50%]	60%*	Most User Support issues resolved, except HelpDesk software and installation of	10/21/10

					User Forum software. Planning for pre-AAS session on PT1.1 data access is underway.	
Configure/tune catalogs	11/10/10	11/23/10	Becla Jacek[10%]	0%		NA
<i>Data Analysis</i>			<i>Axelrod Tim</i>			
DM Scientist/Engineer? data analysis	10/20/10	11/2/10	Axelrod Tim[50%],Lupton Robert[50%],Bosch Jim[50%],Becker Andy[50%],Van Dyk Schuyler[25%],Shaw Dick[50%]	0%		NA
Science Collaboration data analysis	11/10/10	12/7/10	Science Collaboration	0%		NA
Data analysis report	12/1/10	12/7/10	Axelrod Tim[50%],Lupton Robert[50%],Bosch Jim[50%],Becker Andy[50%],Van Dyk Schuyler[25%],Shaw Dick[50%],Science Collaboration	0%		NA

## Other Activity