

2021-08-03 Science Metric Development Agenda and Meeting notes

Date

03 Aug 2021

Location

Browser	Room System	Phone Dial-in
https://bluejeans.com/690803707 or https://ls.st/rsv	1. Dial: 199.48.152.152 or bjn.vc 2. Enter Meeting ID: 690803707 -or- use the pairing code	Dial-in numbers: <ul style="list-style-type: none">+1 408 740 7256+1 888 240 2560 (US Toll Free)+1 408 317 9253 (Alternate Number) Meeting ID: 690803707

Attendees

- [Leanne Guy](#)
- [Colin Slater](#)
- [Keith Bechtol](#)
- [Erik Dennihy](#)
- [Jeffrey Carlin](#)
- [Simon Krughoff](#)
- [Robert Lupton](#)


Regrets









Metric Tracking Dashboard

URL:

Discussion items

Item	Who	Pre-meeting notes	Notes and Action Items
News, announcements and task review	Leanne Guy		<ul style="list-style-type: none">• sandbox notebook - there have been other requests for a sandbox. Simon will come back with a proposal next week• How to handle failure modes<ul style="list-style-type: none">◦ Need CI dataset that is fit for purpose (highest priority)◦ There is distinction between values recorded <code>lsst.verify.Measurement</code>, what gets saved in json, and what gets recorded in chronograph◦ Idea of status codes as extras in <code>lsst.verify.Measurement</code>◦ Create a backlog Jira ticket for thinking about metric status codes?• faro dashboard for RC2<ul style="list-style-type: none">◦ InfluxDB is distinct from chronograph visualization. Can create dashboard separate from persisting values in database.◦ Leanne to follow up with Yusra

Bugs, issues, topics, etc of the week	All		<div>  DM-31291 - Jira project doesn't exist or you don't have permission to view it. </div> <p>We need to make sure to build the docs. Run package-docs locally before you commit or request a review. See https://developer.lsst.io/stack/building-single-package-docs.html</p>
Reprocessing status and metrics review	Jeffrey Carlin Keith Bechtol	<p>Spreadsheet with plans /progress tracking.</p> <p>Dashboards can be found here: https://chronograf-demo.lsst.codes/sources/2/dashboards</p> <p>Monthly reprocessing:</p> <ul style="list-style-type: none"> DRP faro metrics (DRP metrics nightly CI Gen3 (validation_data_*)) <ul style="list-style-type: none"> (new validation datasets should be added to this dashboard) DRP validate_drp metrics monthly Gen 2 (HSC RC2) 	<ul style="list-style-type: none"> Need to replace validation_data_hsc_gen3 (3 bands, 2-3 visits/band). New subset has 5 bands and 5-8 visits / band . Includes parquet tables. Plan to update the nightly processing: <ul style="list-style-type: none"> Jeff to run faro on Simon's gen3_rc2_subset dataset to test and review outputs Review outputs Iterate on dataset until happy When happy replace CI dataset. TE metrics & stellar locus metrics measure on coadds Need to fix stellar locus metric TE metrics use sources not deblended by scarlett. We can not run deblending by removing from the pipeline. <ul style="list-style-type: none"> CI specific pipeline definition to retarget deblending. Could also change the SNR to 3sigma (from 5sigma)

Development status	Leanne Guy	<ul style="list-style-type: none"> Fall 2021 epic <div>  D M-30748 - Jira project doesn't exist or you don't have permission to view it. </div> Backlog epic: <div>  D M-29525 - Jira project doesn't exist or you don't have permission to view it. </div> 	<ul style="list-style-type: none"> <div>  DM-26214 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> New metrics should be added using the new parquet file approach Need to migrate existing metrics and deprecate the FITS file classes with high priority. Make one ticket per context. Need to create an equivalent base class following the template and create the yml files to point to the base class. Add DM license preamble to all python files <div>  DM-31135 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Started this for all the files touched so far Create / improved doc strings Homogenize run method signatures across all the measurement tasks. Suggest in general to inherit run method from CatalogMeasurementBaseTask base class, which can accept and pass keyword arguments. We should avoid passing dataIds to measurement tasks where possible. For example, we can use FilterLabel or list of FilterLabels instead of passing the dataIds if we just need to know which bands are being used. <div>  DM-31061 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Added most of the utility for loading external reference catalogs into the CatalogMeasurementBaseTask base class <ul style="list-style-type: none"> See https://github.com/lst/faro/blob/tickets/DM-26214/python/lst/faro/base/CatalogMeasurementBase.py Add unit tests for task code in faro <div>  DM-31158 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Started this https://github.com/lst/faro/blob/tickets/DM-26214/tests/test_tasks.py Use consistent DM class naming convention for base classes <div>  DM-31136 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Started this Development of reference catalog loading capability in faro with proper configuration options led to discovery and resolution of a bug in LoadReferenceCatalogTask. Thanks to Eli. <div>  DM-31188 - Jira project doesn't exist or you don't have permission to view it. </div>
AOB	Leanne Guy	Next meeting 03 Aug 2021	

List of tasks (Confluence)

Description	Due date	Assignee	Task appears on

<input type="checkbox"/> Leanne Guy to talk to Science Pipelines (Yusra) about when do this transfer 19 Oct 2021	19 Oct 2021	Leanne Guy	2021-09-28 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Leanne Guy arrange to disucss at a future meeting if there are metrics from PDR3 & this paper that we might want to include in faro. 26 Oct 2021	26 Oct 2021	Leanne Guy	2021-08-31 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Colin to ask about capturing ideas for improvement to the stellar locus algorithm 30 Nov 2021	30 Nov 2021		2021-11-09 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Colin Slater to make a preliminary draft agenda for a workshop to clarify visualization use cases for science verification and validation		Colin Slater	2022-04-19 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Jeffrey Carlin to review metric specification package organization and the relationship to formal requirements documents		Jeffrey Carlin	2022-04-19 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Keith Bechtol Schedule a time to have focused discussion on verification package, potentially next status meeting		Keith Bechtol	2021-09-14 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Keith Bechtol to make a ticket to better understand mapping of these camera and calibration products characterization efforts to verification documents and the focus of these efforts. Discuss with the SCLT		Keith Bechtol	2021-09-14 Science Metric Development Agenda and Meeting notes