

2023-02-27 DM-SST Agenda and Meeting Notes

(back to the [list of all DM-SST meeting minutes](#))

Time:

11:00 PT

Location

Browser	Room System	Phone Dial-in
Short : ls.st/dmsst Zoom: https://noirlab-edu.zoom.us/j/97839121776?pwd=K1JPeUpSMXFvSXJSa2xORGkyVk5zdz09 Zoom Meeting ID: 978 3912 1776 Zoom Password: 512314	Dial closest IP: 162.255.36.11 (east coast) and 162.255.37.11 (west coast) then use the Zoom meeting ID 978 3912 1776 as the dialing extension. For example: 978 3912 1776 @162.255.37.11 or: 162.255.37.11##978 3912 1776 Password: 512314	Dial-in numbers: +1 346 248 7799 (US Toll) +1 669 900 6833 (US Toll) Meeting ID: 936 2540 1560 International numbers available: https://gemini.zoom.us/j/adcUNrbXzS


Attendees

- [Colin Slater](#)
- [Jeffrey Carlin](#)
- [Jim Bosch](#)
- [Melissa Graham](#)
- [Leanne Guy](#)
- [Eric Bellm](#)
- [Steve Ritz](#)

Regrets

Discussion items

Item	Who	Pre-Meeting Notes	Notes and Action Items
Project /Science Updates	Leanne Guy	No PST meeting last week Many people involved with either the DESC meeting or the Joint Operations Review this week. Do we want to have a meeting at the JTM? DESC session on Wed 10:45 Pacific for a discussion on Parallel 3.3 Survey Non-uniformity Effects. There might be a discussion on non-uniformity.	<ul style="list-style-type: none">• SC Chairs PST meeting this week in the PST slot. AuxTel is the topic. It will be recorded.• If we have an agenda item, it might be good to have a 1-hour meeting. Stretch goals, DR1 definition. Leanne will think about possibly topics.

Shear measurement pipeline followup	Jim Bosch	<p>Follow up discussion on the shear measurement pipeline in DM and discussion of a Rubin metadetect table schema and other implications for DM.</p> <p>Goal is to converge on a conceptual schema to add to the DPDD and to prepare an RFC</p> <p>slides from the DESC presentation</p> <div style="border: 1px solid orange; padding: 10px; margin: 10px 0;">  DM-38128 - Jira project doesn't exist or you don't have permission to view it. </div> <p>has links to draft PR and PDF.</p>	<ul style="list-style-type: none"> New section 4.2.6 describing the shear measurement approach that was presented last week. Proposing a separate ShearObject table, no matches to the Object table. Naming conventions, acronyms, camelcase can we do better? CTS/JB: this is one column for g,r,i bands same as the Object table JB: Could see table growth if we want quantities per-band as well as averaged across bands. JC: Are we presuming a cell table that this can be joined to? JB: In the same boat as ccdVisit, tract, patch table. Provenance table is probably the most important. Not sure if this is in the DB or in the Butler provenance system LPG/CTS: Looking like this table will be ~1/4 number of columns as the Object table. JB: We can bitpack flags but this is not well supported by SQL nor Parquet. Flags do not come for free. JC: Table name - does this only imply that it is only useful to a specific science? Can we come up with a different name that implies broader use? JB: It really is only useful to WL and is not useful for the physical sizes or ellipticities of galaxies. Table goal is to present the sky as a background field that gets distorted by a foreground field, not as a table of individual astrophysical objects. LPG: Need to make sure that the ShearObject table is not mistakenly used by the community - there are columns with similar names as in the Object table. Take the same approach as for SSO tables. ShearObjects focused on a specific science case, just as SSOObject tables do. CTS: Joins to a cell table are not really a worry. Concerned about provenance tables for the images that go into cells. Would like to see a physical schema for that sooner than later. CTS: Has informed DAX team about this - no one is freaked out. JB: Cell provenance table does not necessarily need to be in the DB, it could be in Butler. CTS: Some people might wonder why they cannot get the all the relevant data from Qserv and have to go to Butler to get some data. Could result in a bad UX. JB: If DAX say it is OK to put into Qserv then OK CTS: This can go ahead without a cell table - will want an example later but not urgent CTS: Rollout might be a good topic for a PST science collab chairs talk . Together with the removal of Object extra (MCMC samples) . LPG: Make any talk to the PST / SC Chairs general to cover all recent updates to the DPDD. e.g <ul style="list-style-type: none"> Astrometry - DR1 goals are different to the final goals We store deblending outputs better now Cell-based coadds - discuss this more - what does this mean for firefly MLG: Cell based coadds - are these a new image data products? JB: Only called out in the ShearObject table - implementation detail of how we build the coadds. This might affect how the file for cell-based coadds will look. All Object quantities will come from the cell-based coadds. MLG: Why not issue cell-based templates JB: Not clear we will get any benefit and don't want to rock the boat at this stage. Possibly post DR1 but <div> <input checked="" type="checkbox"/> Jim Bosch Create an RFC the proposed ShearObject table (once ES has had a chance to comment) 13 Mar 2023 RFC-921 </div> <div> <input type="checkbox"/> Leanne Guy talk to Steve R about presenting plans for the ShearObject table to PST and SciCollab chairs 20 Mar 2023 </div> <div> <input type="checkbox"/> Jim Bosch Provide a physical example of that a up on cell table would look like for the Colin Slater / DAX team to review 31 Aug 2023 </div> <div> <input type="checkbox"/> Jim Bosch Provide an example of a file containing a cell-based coadd for Gregory Dubois-Felsmann to examine to assess implications for firefly 31 Mar 2023 </div>
Proposal for wrapping up Obs package work	Leanne Guy	DM-12676 : Obs package refactor has been lingering for a long time at low priority. I propose to try to get a software developer from the in-kin general pool to assist with completing this work	
AOB	Leanne Guy	Next meeting is: 13 Mar 2023	

List of SST tasks (Confluence)

Description	Due date	Assignee	Task appears on

<input type="checkbox"/>	Robert Lupton Clarify the meaning of time in the object table. 1 sentence description in sdm_schemas, can link to a short DMTN. <i>Update 2022-02-09: Meeting to resolve this on 2022-02-21</i> 28 Feb 2022	28 Feb 2022	Robert Lupton	2018-11-05 DM SST F2F Agenda and Meeting notes
<input type="checkbox"/>	Gregory Dubois-Felsmann check if SDM standardization is adequately represented in project documents, and whether DMTN-067 should be required. 31 Mar 2022	31 Mar 2022	Gregory Dubois-Felsmann	2022-02-14 DM-SST Virtual F2F Agenda and Meeting notes
<input type="checkbox"/>	Steve Ritz Work with DM and Camera to develop plans for delivering a shutter position-vs-time model 16 May 2022	16 May 2022	Steve Ritz	2022-03-14 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Gregory Dubois-Felsmann / Leanne Guy Create a TN that outlines the science use cases and options for compressed PVIs from AP. Present the issue at DMLT VF2F and then the PST. 13 Jun 2022	13 Jun 2022	Gregory Dubois-Felsmann	2022-05-09 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Eli Rykoff Report on what information DES used for their decision on using compression? 25 Jul 2022	25 Jul 2022	Eli Rykoff	2022-06-06 DM-SST VF2F Agenda and Meeting notes
<input type="checkbox"/>	Melissa Graham to draft a proposal for including pz in alert packets 12 Sep 2022	12 Sep 2022	Melissa Graham	2022-08-15 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Steve Ritz Leanne Guy Gregory Dubois-Felsmann Organize a meeting to review Camera telemetry/ how what the Camera reports 26 Sep 2022	26 Sep 2022	Steve Ritz	2022-09-12 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Gregory Dubois-Felsmann start a technote to write down the details for science end user interface to SED corrections in catalogs 31 Oct 2022	31 Oct 2022	Gregory Dubois-Felsmann	2022-08-22 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Leanne Guy Gregory Dubois-Felsmann Raise the AP image-availability gap (between 30 days and the DR) issue to the PST 31 Dec 2022	31 Dec 2022	Leanne Guy	2022-06-06 DM-SST VF2F Agenda and Meeting notes
<input type="checkbox"/>	Leanne Guy read RFC-842 and work out how much of this is in DM scope. Work with Eli Rykoff and Robert Lupton to make a plan to address this 28 Feb 2023	28 Feb 2023	Leanne Guy	2023-01-23 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Leanne Guy talk to Steve R about presenting plans for the ShearObject table to PST and SciCollab chairs 20 Mar 2023	20 Mar 2023	Leanne Guy	2023-02-27 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Jim Bosch Provide an example of a file containing a cell-based coadd for Gregory Dubois-Felsmann to examine to assess implications for firefly 31 Mar 2023	31 Mar 2023	Jim Bosch	2023-02-27 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Leanne Guy talk to Gregory Dubois-Felsmann to review the original intent of the AFS-related Portal requirements before deciding on a course of action 29 May 2023	29 May 2023	Leanne Guy	2023-05-01 DM-SST Focus Meeting - Brokers in Commissioning

<input type="checkbox"/>	Leanne Guy Prepare to consult the PST on the question of providing compressed PVIs for AP outputs, to cover the period before the data become available in a DR. 02 Jun 2023	02 Jun 2023	Leanne Guy	2023-03-27 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Jim Bosch Incorporate 30-60 day period for raws on disk into the strawman proposal and present to KT 26 Jun 2023	26 Jun 2023	Jim Bosch	2023-05-08 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Parker Fagrelus Patrick Ingraham how long will it take to do a scan as described? No need to scan the whole WL range but will require additional points outside nominal lambda range. 30 Jun 2023	30 Jun 2023	Parker Fagrelus	2023-03-27 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Colin Slater Gregory Dubois-Felsmann Robert Lupton Jeffrey Carlin Convene meeting/vf2f session on definition of dataset selection requirements in DMS-REQ-293 31 Jul 2023	31 Jul 2023	Colin Slater	2023-07-10 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Eli Rykoff , Leanne Guy Develop a proposal for what calibration processing, hardware, data we actually need and what will be needed for DR1. This has implications for the ORR and for prioritisation of work in commissioning 31 Jul 2023	31 Jul 2023	Eli Rykoff	2023-01-30 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Yusra AlSayyad will look to see if there is any effort to help on option 1 28 Aug 2023	28 Aug 2023	Yusra AlSayyad	2023-08-14 DM-SST Agenda and Meeting Notes
<input type="checkbox"/>	Jim Bosch Provide a physical example of that a up on cell table would look like fo the Colin Slater / DAX team to review 31 Aug 2023	31 Aug 2023	Jim Bosch	2023-02-27 DM-SST Agenda and Meeting Notes