2021-11-29 DM-SST Agenda and Meeting notes

Date & Time

29 Nov 2021 11:00 PDT

Location

Browser	Room System	Phone Dial-in
Zoom: http://ls.st/dmsst or https://noirlab-edu.zoom.us/j/97839121776?pwd=K1JPeUpSMXFvSXJSa2xORGkyVk5zdz09	1. Dial: 199.48.152.152 or bjn.vc 2. Enter Meeting ID: 103664856 -or- use the pairing code	Dial-in numbers: • +1 408 740 7256 • +1 888 240 2560 (US Toll Free) • +1 408 317 9253 (Alternate Number) Meeting ID: 927260081

Attendees

- Leanne Guy
- Robert Lupton
- Keith Bechtol
- Melissa Graham
- Jim Bosch
- Yusra AlSayyad
- Eric Bellm
- Simon Krughoff
- Gregory Dubois-Felsmann
- Jeffrey Carlin

Regrets

- Colin Slater

Discussion items

Item	Who	Pre-Meeting Notes	Notes and Action Items
Project /Science Updates	Leanne Guy Zeljko Ivezic	• No PST meeting last week • Subsystem scientists preparing job specs for 2 positions to replace Bo, one for an active optics scientist, another for a system performance scientist. • Rubin all hands on 9 Dec. • Rubin-Euclid DDP WG: 2021-12-21 to wrap up the report and submit to the Oversight Committee. There will be a presentation at AAS on the WG's work.	Access to the Rubin-Euclid DDP report draft is only possible through the associated community forum.
Special Programs	Melissa Graham	Special Programs study epic: blocked URLDM-20374 - Study to understand the implications for special programs on DM **IN PROGRESS** Slides for today:	GPDF: Is ToO considered a part of special programs or a category? It is not WFD but unlike other SPs, which are planned, it is unplanned. MLG: The WFD does cover the GP. DDF is also in the WFD area but is considered a SP. A region that is different from the WFD area or that has a different cadence (even if in the WFD area) is considered a special program. A SP wil produce its own data products different from the WFD. Is a SP defined in a programatic sense, e.g observationally or in a data procesing sense, e.g specialized confugurations of the pipeline? EB: The GP in the 2.0 baseline is excluded from WFD - there is a low extinction footprint that excludes all of the plane. Are we talking about scheduler driven proposal IDs as defining SPs or are we saying something about the pipelines? GPDF: Three axes of categorization: by scheduler programme IDs, by type of processing, and by grouping of the resulting data products for user accessibility. MLG: For today's coversation, we will consider SP as observations that result in a separate DP from the WFD DPs. Focus on DM concerns for today. ☑ Leanne Guy Melissa Graham follow up on getting a project wide definition of SPs. Relevant for scheduler/survey strategy /commissioning. 28 Feb 2022 GPDF: For DDFs, will the same coaddition code as for the WFD work? What different tuning/configuration, etc. is needed to handle deblending, etc. at that depth? RHL: where is the line btw tweaking cfgs v writing specialized code? We've said that we will not do shift-and-stack searches for faint TNOs, yet it's easier to write the loop to do those than to tweak the deblender to go 20 times deeper.

GPDF: Whose responsibility is it to deliver? DRP? Where will the human resources come from? Note that we have to make this work anyway at 20yr depth for commissioning and validation purposes, so perhaps we're covered through DR2 - but eventually someone will have to make this work at 100-year depth and beyond.

RHL: How much effort will DRP put into configuring pipelines for commissioning/DDFs?

JB: need to fine tune params at least to not run out of memory and maintain the same algorithmic behaviour. We'll get data with a large range of depths early on in the survey so need to be able to run the pipelines at a range of depths without requiring custom tuning.

GPDF: Calibration of main survey with DDF data is a concern, Will we need to process the DDF data exactly the same as for the WFD?

RHL: Process the full 10 and 20yr depth in commissioning. We need to get this far in commissioning. 100/200 yr depth tuning will be a longer term task.

Leanne Guy Robert Lupton Follow up to work out where resources will come from to tune pipelines for 10/20 yr depth in commissioning. 28 Feb 2022

GPDF: Getting usable metadata to users for DP0.1 has not been a trivial exercise, e.g for out-of-focus data, high-airmass data .. etc. Need to look more at the needed technical capabilities.

> ⚠️ DM-13740 - Jira project doesn't exist or you don't have permission to view it.

to transition back to 'in progress'. GPDF to define the work to do after the baseline 2.0 is released.

DM-12577 - can fall under user batch/N2D - Gregory Dubois-Felsmann will close this one.

For the DM-SST F2F in February. 1) get update on the v2.0 strategy at the F2F - invite Lynne. 2) Keith Bechtol to give a summary of commisisoning data taking plans and a high-level view of the datasets we'll collect.

EB: auxtel testing with shorter exposure times with the smaller aperture is progressing.

GPDF: Was short exposures flowed down to AP? Does not look like it. EB confirms no testing on simulated 1sec exposures to date Melissa Graham Open ticket to ensure this is flowed down. Done:

> ⚠️ DM-32722 - Jira project doesn't exist or you don't have permission to view it.

Shutter open/close : 2sec. Designed to get uniform illumination for 1 sec exposures. reason for "midpointTAI"

Leanne Guy to follow un on

> ⚠️ DM-12575 - Jira project doesn't exist or you don't have permission to view it.

for effort needed for commissioning.

Construction is committed to DDFs so is it the construction project's responsibility to produce a pipeline to process SPs. This will be needed during commissioning. Take to PST/commissioning.

Many general concerns on commissioning will getsquished further. Many science drivers for DDFs but not so for many other science

AOB	Leanne Guy	- A special meeting will be held next week, 2021-12-06 on the Gen3 middle ware testing. 2022-02-14 DM-SST Virtual F2F Agenda and Meeting notes - draft page in place. Please add and vote on topics to discuss. Note this is a hybrid meeting, in-person component will be in Tucson Next and final meeting of 2021 is 13 Dec 2021	

List of SST tasks (Confluence)

Description	Due date	Assignee	Task appears on

	Action	Due	Owner	Meeting
☐	Robert Lupton Clarify the meaning of time in the object table. 1 sentence description in sdm_schemas, can link to a short DMTN. *Update 2022-02-09: Meeting to resolve this on 2022-02-21* 28 Feb 2022	28 Feb 2022	Robert Lupton	2018-11-05 DM SST F2F Agenda and Meeting notes
☐	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
☐	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
☐	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
☐	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
☐	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
☐	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
☐	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
☐	Parker Fagrelius 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 Fagrelius	2023-03-27 DM-SST Agenda and Meeting Notes
☐	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
☐	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
☐	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
☐	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

☐ "What is the pathway to defining the data products that are required to meet DMS-REQ-0266" Jeffrey Carlin **30 Nov 2023**	30 Nov 2023	Jeffrey Carlin	2023-10-23 DM-SST vF2F Agenda and Meeting Notes
☐ Gregory Dubois-Felsmann Eli Rykoff to investigate splitting DMS-REQ-0298 (data access services for provenance) into separate 1a and 1b reqs. **30 Nov 2023**	30 Nov 2023	Gregory Dubois-Felsmann	2023-10-23 DM-SST vF2F Agenda and Meeting Notes
☐ Leanne Guy Gregory Dubois-Felsmann , possible others small group to write description of how our deployment strategy meets DMS-REQ-0297. **30 Nov 2023** *2024-01-30, See DMS-REQ-0297 -- Deployment Strategy*	30 Nov 2023	Leanne Guy	2023-10-23 DM-SST vF2F Agenda and Meeting Notes
☐ Jeffrey Carlin follow up with KT on DMS-REQ-0176 and DMS-REQ-0315 to update /disaggregate this for latest base/summit infrastructure split. **30 Nov 2023**	30 Nov 2023	Jeffrey Carlin	2023-10-23 DM-SST vF2F Agenda and Meeting Notes
☐ Jim Bosch Follow up on the possibility of investigating further the ability to process 2 collections in parallel. **31 Jan 2024**	31 Jan 2024	Jim Bosch	2023-12-04 DM-SST Agenda and Meeting Notes
☐ Jeffrey Carlin Gregory Dubois-Felsmann Colin Slater Define verifications for the consistency of collections part of this requirements - e.g. OSS-118 **31 Jan 2024**	31 Jan 2024	Jeffrey Carlin	2023-12-04 DM-SST Agenda and Meeting Notes
☐ Gregory Dubois-Felsmann Jim Bosch Setup a meeting between science platform and middleware regarding user storage for butler purposes.		Gregory Dubois-Felsmann	2023-10-23 DM-SST vF2F Agenda and Meeting Notes