2019-07-26 DM SST Agenda and Meeting notes

Date

26 Jul 2019

Location

Browser	Room System	Phone Dial-in
https://bluejeans.com/103664856	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: 103664856

Attendees

- Leanne Guy
- Robert Lupton
- Michael Wood-Vasey
- Eric Bellm
- Yusra AlSayyad
- Simon Krughoff
- Keith Bechtol
- Gregory Dubois-Felsmann
- Jim Bosch
- Melissa Graham
- Robert Gruendl

Regrets

- Colin Slater

Discussion items

Item	Who	Notes	Conclusions and Action Items
Updates	Leanne Guy	Please fill in the doodle to change the SST meeting time https://doodle.com/poll/w7vuvzhzktppuukq	

PST-78	Leanne Guy	⚠ PST-78 - Jira project doesn't exist or you don't have permission to view it.
		
		• Request from Miyazaki-san, HSC PI, to Steve Kahn to process the HSC data using the LSST science pipelines, and use the LSP to serve the public data products, both in Japan,
		• First meeting to understand exactly what they want set for Tuesday 30 July. From this we can work out what it means for us and what it will cost us, .eg
		  ○ LSP may not be ready to serve a full public release of HSC data to a large community
		  ○ We need to be careful to manage expectations while we are currently in development.
		• RHL points out that this is complicated technically and there is a parallel effort in Japan to use SciServer that Miyazaki-san seems to not be aware of.	

| Conversion to TCB | Eric Bellm | As discussed on the SST channel, The DPDD implies we report times, e.g DIASource time says midPointTai, but in TAI but users will expect TCB.

• Eric is working on

> ⚠ DM-19593 - Jira project doesn't exist or you don't have
> permission to view it.

for time series features.
• Fitting in DRP/AP needs to be in TAI but time series feature should be computed using TCB. There will be confusion if the Alert packet has time in TAI and the users can't reproduce the periodogram.
• Time series features that will be computed in AP are the same in the DIAObject tables in the PPDB as in the Alerts packets,
• Should we persist the TCB times along with the TAI times or always computed on-the-fly (as Robert Lupton suggests) ?
• Gregory Dubois-Felsmann points out we have very high-level requirements to use TAI. Supplementing TAI with TCB is not a problem.
• Michael Wood-Vasey recommends calculating once and persisting on-the-fly.
• What does the MPC want - SSSC should know?
• ZTF do not use TCB but also do not compute time series features.
• Gregory Dubois-Felsmann - will we also do this for the Visit times or just the timed photometry tables, DIASource, etc? We can put TCB time in the Visit table as an additional column, it is not that big - use case is less obvious
• TAI will be used to talk to the EFD, astronomers will mostly use TCB, we should to have both. We need to make sure the documentation is clear!
• Where in the pipelines should we do these calculations? Not in the AP pipeline. If we didn't need to get it into the alerts it could be done at ingest time, after the DRP pipelines have run. | Consensus to compute time series features in both AP and DRP on TCB and propose an additional change to the DPDD to add a column for TCB times. A proposal to add TCB times to the visit table will also be included.

Eric Bellm will discuss this in the DMTN. and put to RFC to discuss with the rest of DM

☑ Eric Bellmfollow up with Mario what the SSSC / MPC want times to be reported in.

• MPC expects times in Terrestrial Time, which is neither TAI or TCB but is a straightforward conversion using e.g. astropy
• Mario believed that computing SSObject timeseries features in barycentric time was not a concern. |
| DM-SST Study "Detection efficiencies for difference images" | Melissa Graham | DM-19308 is at a point where feedback would be useful. Draft DMTN and short summary slide deck are linked to the Jira ticket.

• The OSS does provide a requirement to evaluate completeness and purity, but it is not clear about how it will be evaluated (i.e it does not specify that it should be done as a function of all the parameters that Melissa presents). No change is therefore required at the OSS level. At the DMSR level we need to make this clear.

• Are we thinking we will inject fakes into the actual images or are we thinking about doing duplicate processing? Melissa has addressed the pros/cons in the document. Most common approach is do it in the data release processing.
• The detection efficiency matrix is a new data product, not currently in the DPDD but will enable a lot of science.
• Eric argues there is a science case for having these efficiencies on the AP, not in real time, otherwise brokers will not know the input selection functions.
• The detection efficiencies matrix will be calculated for DRP, but cannot necessarily be applied to AP as every image is different - the deep DRP diffim processing is different to that of AP. Are there enough fakes in each image to do this reasonably?
• Consider doing this for AP on the same cadence as for the Calibration products. Eric argues to do it during the daytime - all processed image products available and persisted. Rerun AP during the day with fakes injected and update the detection efficiency matrix. To be discussed. There will be a latency providing the information but it is not needed in real time.
• Moderate expansion in the last line not really correct, requirements drafting was not clear. We have to do this work anyway and it will be part of V&V. We should also release this to the public.
• Yusra AlSayyad claims there is no need to expand the WBS scope as DRP would be doing this work anyway
• This DMTN will cover the requirements - once clear, the AP team will write a design document will be written in response | Consensus that we should update the DMSR requirement to provide a meaningful flowdown and clarify how completeness will be evaluated. |

| Addressing old SST tickets (if time permits) | Leanne Guy | ⚠ DM-13098 - Jira project doesn't exist or you don't have permission to view it.

⚠ DM-14790 - Jira project doesn't exist or you don't have permission to view it. | Deferred |

List of SST tasks (Confluence

Description	Due date	Assignee	Task appears on
☐ 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