DM Leadership Team Meeting 2017-05-09 to 11, Face-to-Face
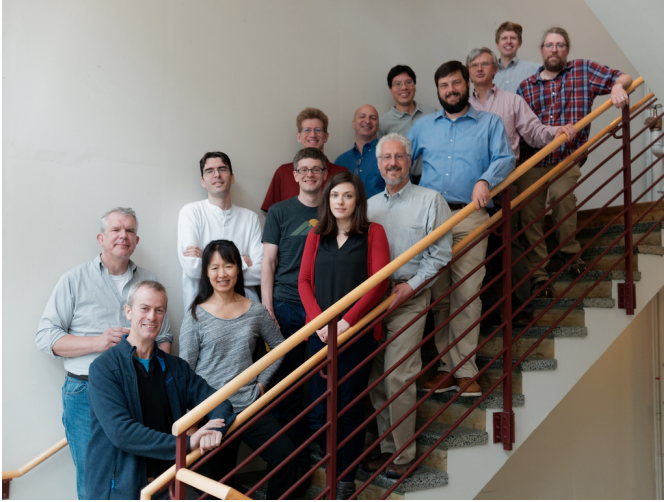
May 2017 DMLT

Logistics

Date

09 May 2017 - 11 May 2017

Location

- University of Washington, Seattle, WA, Physics and Astronomy Building, 3rd floor. Rooms vary by day–see agenda for locations.
- Remote access via BlueJeans at ls.st/jmc or dial one of the following numbers: +1.408.740.7256   +1.888.240.2560   +1.408.317.9253

    Connecting from a room system dial 199.48.152.152 or bjn.vc and enter meeting ID **293724745** followed by #

Hotel / Per Diem

Here are hotel recommendations near the UW Campus and the Physics-Astronomy Building (PAB):

1. University Inn, (206) 632-5055   ** **Erin Carlson has a room block at this hotel, but you must make your own reservation by Friday, April 28; see here for more info** (Updated 4/19 1620 hrs). **

Approx. university rate is $189

2. Silver Cloud, (206) 526-5200

$149 (+ parking, hot breakfast wifi) + tax (single king bed) + local shuttle (14ppl max), $159 (two queen beds)

3. Hotel Deca (206) 634-2000

Depending on the availability, it can vary from $111 to $157

Additional visitor information can be found here.

Planning to attend

- Wil O'Mullane
- Kian-Tat Lim
- Eric Bellm
- Unknown User (mjuric-admin)
- Tim Jenness (remote)
- Unknown User (xiuqin)
- John Swinbank
- Jim Bosch
- Frossie Economou
- Robert Lupton (attending PST on Monday/Tuesday)
- Fritz Mueller
- Gregory Dubois-Felsmann
- Michael Wood-Vasey
- Jeff Kantor
- Margaret Gelman
- Donald Petravick
- Unknown User (ciardi)
- Simon Krughoff (local)

Agenda

Day #1: Tuesday May 9 - start 1:00PM

Apologies from Mario Juric, Robert Lupton, Wil O'Mullane, John Swinbank: patchy/no availability due to PST meeting.

13:00–15:00 room C341

- Discuss document tree and list of documents for the review (Kian-Tat Lim)

15:00–15:30 break

15:30–17:30 room B305

- Continue document tree discussion as long as it is productive
- Otherwise time available for self-organizing breakouts. Suggested topics include:
    - SuperTask WG
    - F17 cross-WBS planning

17:30 End (or earlier if we make it)

18:00 Joint Dinner with PST (Ivar's Salmon House)

Day #2: Wednesday May 10 (room B305)

WOM Slides for all topics

09:00–11:00 The NSF/DOE Review -

1. **Document pack -** thanks to Ranpal for having a first go at this
2. The agenda
    a. Overview by Wil O'Mullane
    b. Session chairs to present ~1 slide overview of plans & people they expect to be there
        - Pipelines
        - Data Facility

Actions

- ☑ Whole DMLT: send comments on LDM-148 component diagram to Kian-Tat Lim. 17 May 2017
- ☑ Kian-Tat Lim: produce finalised LDM-148 component diagram. 19 May 2017
- ☑ Whole DMLT: submit suggested risks to Wil O'Mullane. Should include "What worries me is ..., impact on the project is ...", bonus points for "probability is ..., cost is ...". 31 May 2017
- ☑ Mario Juric: distribute guidelines for coding priorities of requirements to DMLT members (e.g. "will do", "may do", "won't do"). 17 May 2017
- ☑ Science Leads: provide prioritized list of requirements to Wil O'Mullane, work with T/CAMs to ensure the expressed priorities are consistent with the plan. 31 May 2017
- ☑ Whole DMLT: submit list of external data dependencies (e.g. reference catalogues, "auxiliary data") to Wil O'Mullane. 19 May 2017

- ☑ Wil O'Mullane: understand project level requirements for "quick look" tooling. Ensure terminology used within DM is consistent with OSS (OSS-REQ-0057, etc). Agree with John Swinbank what should be included in NSF review presentations. 15 Jun 2017
- ☑ John Swinbank: work with T/CAMs, Kevin to clean up & understand the contents of PMCS in a way that can be presented to the review panel. 15 Jun 2017
- ☑ John Swinbank: ensure that interfaces from the Science Pipelines to other parts of the system (task framework, Butler, NCSA, ...) are represented at the ~1 slide level in review material.
- ☑ Kian-Tat Lim: include material on system integration in review plenary session.

  - ○ Review session leaders:
    - ☑ Margaret Gelman: add list of presentations for Data Facility breakout to review agenda, link to specific charge items.
    - ☑ John Swinbank: add list of presentations for Science Pipelines breakout to review agenda, link to specific charge items.
    - ☑ Unknown User (xiuqin)/Mario Juric: add list of presentations for Science Platform breakout to review agenda, link to specific charge items.
    - ☑ Wil O'Mullane: add list of presentations for Management breakout to review agenda, link to specific charge items.

11:00–11:30 Break

11:30–13:00

- ○ DM org chart updates, status of LDM-294 (Wil O'Mullane) [20 minutes]
- ○ Product Tree: aims, current status, work needed (Wil O'Mullane) [20 minutes]
- ○ Summary of Wil O'Mullane's SLAC visit (Fritz Mueller) [20 minutes]

Actions

- ☑ Whole DMLT: give comments to Wil on LDM-294. 17 May 2017
- ☑ T/CAMs: provide material on lead institutions for LDM-294. 17 May 2017
- ☑ Kian-Tat Lim / Tim Jenness: produce (draft) trace table of requirements to components to go into LDM-294. 17 May 2017
- ☑ Wil O'Mullane / John Swinbank: rename "Infrastructure & Processing" to "Data Facility" on org chart. 17 May 2017
- ☑ Robert Lupton, Jim Bosch, Wil O'Mullane, John Swinbank: convene small group to discuss product tree for DRP. 17 May 2017

13:00–14:00 Lunch (on your own)

14:00–15:30 Planning for F17

- ○ Present current status of plans for the upcoming cycle: 10 minutes per group + 30 minutes questions.
  - ■ AP (Simon Krughoff)
  - ■ Architecture (Kian-Tat Lim)
  - ■ DAX (Fritz Mueller)
  - ■ DRP (John Swinbank)
  - ■ Data Facility (Margaret Gelman)
  - ■ Networks (Jeff Kantor)

15:30–15:45 Break

15:45–17:30 Planning for F17 (continued)

- ○ Group status updates continue:
  - ■ SUIT (Unknown User (xiuqin))
  - ■ SQuaRE (Frossie Economou)
  - ■ DM System Science Team (Mario Juric)
- ○ Science Platform development planning for 2017 (Gregory Dubois-Felsmann) [30 minutes]
  - ■ Science Platform and PDAC development and deployment in 2017
- ○ Integration effort between HSC reprocessing & SUIT/DAX (Unknown User (xiuqin), Fritz Mueller) [30 minutes]

Actions

- ☑ Mario Juric, DM-SST members: discuss plans for global photometric calibration (FGCM, Übercal, etc). – moved to

  DM-11504 - Getting issue details... | **STATUS**

- ○ All (relevant) T/CAMs: fill in F17 epics on the Science Platform and PDAC development and deployment in 2017 page, to support discussion at the **18 May 2017** PDAC meeting.
  - ☑ Unknown User (xiuqin): fill in remaining F17 epics (or stories, where needed) for PDAC development on Confluence 15 May 2017
  - ☑ Fritz Mueller: fill in remaining F17 epics for PDAC development on Confluence 15 May 2017
  - ☑

      ☐ Frossie Economou: fill in remaining F17 epics for PDAC development on Confluence 15 May 2017

      ☑ Margaret Gelman: fill in remaining F17 epics for PDAC development on Confluence 15 May 2017

17:30   End

Off-site Team Dinner

- Reservation at **Tai Tung**, 655 S King St, Seattle, WA 98104 for **19:00 map**
- The reservation is under the name Simon Krughoff
- A group will travel there by public transit after the meeting winds up for the day.
- Round trip light rail tickets are $5 and available at the station for cash or plastic
- There is street parking. I think it's free after 6PM.
- Travelers should deduct $34 from per diem for dinner meal allowance.

Day #3: Thursday May 11 (room B305)

09:00

- LSST "patch" DM feature - networks perhaps... for any creatives .. (Wil O'Mullane)
- SuperTask WG report and next steps (Gregory Dubois-Felsmann) [1 hour]
- Binary releases: current status, requirements, plans (Frossie Economou, Wil O'Mullane, John Swinbank) [30 minutes]
  - See also DMTN-044.

Actions

☑ John Swinbank: update DMTN-044 to reflect the acceptance of the SQuaRE provided binary release system, and that decisions about long-term release maintenance will be deferred until the release manager position has been filled, and place it in Docushare.
    DM-10813 - Getting issue details...   **STATUS**

☑ Wil O'Mullane / John Swinbank: ensure that responsibility for the maintenance of EUPS is well understood and included in the DM plan.
    DM-10814 - Getting issue details...   **STATUS**

☑ Jeff Kantor provide network images/art suggestions for LSST Patch to Wil O'Mullane 17 May 2017

10:30–10:45 Break - DMLT photo (in the rain ?)

10:45–12:00

- Status of the Verification plan (Frossie Economou, Wil O'Mullane, Mario Juric) [30 minutes]
  - LDM-503.
- Networks Status and Verification Plan (Jeff Kantor) [15 minutes]
- Summit Base ITC Design Tiger Team results to date (Jeff Kantor) [15 minutes]

Actions

☑ Whole DMLT: review LDM-503 list of proposed tests (master schedule, §5). Send corrections, updates, additional suggestions to Wil O'Mullane. 19 May 2017

☑ Gregory Dubois-Felsmann, Fritz Mueller Submit LCR against DMSR (LSE-61) to incorporate the existing database performance requirements from the Data Access White Paper (Document-5373) 19 Jun 2017 (as a starting point - a later change request should cover a more comprehensive set of user data service performance metrics)

12:00–13:00 Lunch - WORKING LUNCH IN ROOM B305 (for Frossie, Wil, Simon, Gregory, John, Fritz, ==Xiuqin==, KT, Jeff, Mario, Michael)

- Continuation of prior discussion topics for select team members.

13:00–14:00 Videocon on NCOA - https://bluejeans.com/309465185

14:00–15:00 Planning for F17 (continued)

- Technical decision making
  - WCS/AST
    - Refer to: DMTN-010, **RFC-193** - Getting issue details... **STATUS** ,
        RFC-211 - Getting issue details... **STATUS**
  - **RFC-329** - Getting issue details... **STATUS**
- Pre-operations capacity planning (Margaret Gelman) [15 minutes]
- Pipelines/SUIT integration: "Objects" in SUIT/notebook are what? Astropy or/and LSST Stack objects?

Actions

- ☑ Robert Lupton to review calculations in RFC-329 or delegate (likely to Bob Armstrong). 12 May 2017
- ☑ Mario Juric: any significant data usage at NCSA which is not recorded in LDM-503 master test schedule to Margaret Gelman. 31 May 2017
- ☑ Jim Bosch: provide sizes of individual data products (& persisted temporaries) to Margaret Gelman based on LDM-151. Now **DM-10812** - Getting issue details... **STATUS** . 31 May 2017
- ☑ Mario Juric: convene working group on data compression (assignee changed from Wil O'Mullane per DMLT of 2017-06-12).
- ☑ Robert Lupton & Gregory Dubois-Felsmann write specifications for user interface for reconstituting Python objects (including, e.g, `Heavy Footprint`s) from a database-backed Butler. 14 Aug 2017 - captured as **DM-12275** - Getting issue details... **STATUS** .

15:00–15:30 Break

15:30–16:50

- ○ PVI Discussion **RFC-325** - Getting issue details... **STATUS**
- ○ Older data releases **RFC-336** - Getting issue details... **STATUS**
- ○ Heterogeneous focal plane **RFC-339** - Getting issue details... **STATUS**

- ○ Resolve outstanding cross-group & prioritization questions for F17 (continued)
  - ■ T/CAMs should be ready to submit the plan for at least the first three months to Kevin within ~1 week from this session.

16:50 Closing remarks - (Wil O'Mullane)

17:00 End

Key Documents

Please submit comments requested above relative to these documents:

- LDM-148 (Data Management System Design): https://ldm-148.lsst.io/v/u-ktl-pre-DMLT/index.html
- LDM-294 (Data Management Organization and Management): https://ldm-294.lsst.io/v/DM-9880/index.html
- LDM-503 (Data Management Test Plan): https://github.com/lsst/LDM-503/blob/261b1df2c1c778f7ebb7295180e02c5c52d6ef0e/LDM-503.pdf
- DMTN-044 (LSST DM Software Release Considerations): DMTN-044-3fcf748.pdf

Pre-Meeting Planning

Focus

Preparing for DM Review.

Other Topics for the agenda (please add here any points you would like to discuss)

- Science Platform development planning for 2017 (Gregory Dubois-Felsmann)
- Planning for integration effort between HSC reprocessing and DAX+SUIT (Fritz Mueller, Unknown User (xiuqin))
- what hardware is to be used?
- Are we going to provide a PDAC-like system for internal users to access reprocessed HSC?
- What's the relationship of the above said system and the science verification?
- Networks Status and Verification Plan (Jeff Kantor)
- Summit Base ITC Design Tiger Team results to date (Jeff Kantor)
- Binary release plans & developer workflow (John Swinbank)
- We've discussed this in DMLT telecons
- Completing LDM-151 revision, in particular as regards requirements tracing (John Swinbank)
- Pre-operations capacity planning (Margaret Gelman)
- Science Validation (Michael Wood-Vasey)

Topics requested by Wil O'Mullane

- Binary releases; see DMTN-044 (source, PDF).
- Status of databases & results from Wil O'Mullane visit to SLAC.
- Summary of that visit requested from Fritz Mueller.
- Session plans for DM review.

- Each of the session chairs (Margaret Gelman, Unknown User (xiuqin)/Mario Juric, Wil O'Mullane, John Swinbank) should have a ~1 slide overview of how their session will be organized.
- Status/results from the SuperTask WG.
- Brief slide deck requested from Gregory Dubois-Felsmann.
- Product tree (PDF).
- Homework for everybody: please identify missing elements.
- Status of the Verification Plan (Wil O'Mullane, Mario Juric, Frossie Economou)
- Updates to the DM Org Chart.