

## Today's Agenda

20 min - tour of [Community.lsst.org](https://community.lsst.org)

5 min - pause for questions

30 min - discussing community engagement for DP0

1. onboarding resources for DP0 delegates
2. potential delegate contributions/opportunities

**For our community engagement model to be scalable and sustainable we need to build a thriving online LSST science community forum with the ability to crowd-source solutions from its deep reservoir of collected expertise.**

## Why the Discourse platform?

Discourse was designed to encourage users to “fall into the pit of success: reading”\*.

Discourse features include:





















- Native to the web (allows linking, is searchable).
- Prioritizes user experience (markdown, threading, liking, notifications).
- Open platform (publicly viewable, anyone can create an account).
- Hierarchical categorization (easy to see everything, easy to navigate).
- Support for marking solutions ('answers' identified for posts that are questions).

**Let's review categories, tags, topics, and posts, and a few examples.**

Any opinions, statements (including statements about LSST and what it will deliver), or recommendations expressed on this forum are those of the author and do not necessarily reflect the views of the LSST Project.

Please take a moment to review our [community guidelines](#).

[all categories ▾](#)
[all tags ▾](#)
[Categories](#)
[Latest](#)
[Bookmarks](#)
[Unread \(15\)](#)
[My Posts](#)
[+ New Topic](#)

Category	Topics	Latest
<b>LSST News</b> News and announcements from the LSST Project.	80 2 unread	 Mosaic.py not found in hscPipe 8.3 <span>1</span>  Support           8 10h
<b>Science</b> Public discussions about LSST science.  Data Q&A  Statistics Q&A  Survey Strategy           4 unread 1 new  LSST2018  LSST2017  LSST2016           1 unread  Milky Way (Open)	208 8 unread 2 new	 Sky Sources Added to Single Frame Processing  DM Notifications           dm-dev           2 10h
<b>Science Collaborations</b> Science discussions for members of LSST Science Collaborations.  TVS SC           1 unread  PST Telecons	66 1 unread	 Installing Qserv replication system on top of Qserv containers <span>•</span>  Data Management           0 18h
<b>Support</b> Community support venue for using the LSST software, services and data.  LSST Science Platform	274 2 unread	 Survey Strategy and Solar System Science <span>•</span>  Survey Strategy           solarsystem           4 1d
		 PhoSim v5.3 release <span>•</span>  Data Management           0 1d

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all categories ▶ all tags ▶ Categories

Category

## LSST News

News and announcements from the LSST Project.

## Science

Public discussions about LSST science.

- Data Q&A
- Statistics Q&A
- Survey Strategy
- LSST2018
- LSST2017
- LSST2016
- Milky Way (Open)

## Science Collaborations

Science discussions for members of LSST Science Collaborations.

- TVS SC
- PST Telecons

## Support

Community support venue for using the LSST software, services and data.

- LSST Science Platform

## Use-Modes of the Community Forum

- passive reading, searching, browsing
- active posting new topics, replies

## News and Announcements

Project posts in "LSST News" category.  
DM Science Pipelines release posts.  
Updates re. OpSim runs and results.

## Question and Answer

Some categories are monitored by Rubin staff as Q&A venues for the science community: e.g., "Support", "Science - Data Q&A".

## Discussion and Collaboration

Hold open discussions regarding algorithmic development, interact with pipelines users, etc.



... of the author and do not necessarily

+ New Topic

scPipe 8.3 1 8 10h

ngle Frame 2 10h

on system on top 0 18h

66 1 unread Data Management



Survey Strategy and Solar System Science

Survey Strategy solarsystem

4 1d



PhoSim v5.3 release


Data Management

0 1d

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Search... 

- LSST News × 80
- Science × 78
- Science Collaborations × 3
- Support × 272**
- Data Management × 489
- Simulations × 39
- Camera × 1
- Cross-System × 1
- EPO × 22
- LSST Project × 34
- Meta × 46
- Staff × 5
- LSST Science Platform

Topics	Latest
80 2 unread	
208 8 unread 2 new	
66 1 unread	
274 2 unread	

	Mosaic.py not found in hscPipe 8.3 <span>1</span>	8 10h
	Sky Sources Added to Single Frame Processing DM Notifications dm-dev	2 10h
	Installing Qserv replication system on top of Qserv containers	0 19h
	Survey Strategy and Solar System Science Survey Strategy solarsystem	4 1d
	PhoSim v5.3 release Data Management	0 1d

tags are optional

Please take a moment to review our community guidelines.

[+ New Topic](#)

and data.

1

2 unread

- Data Management

1d

1d

















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View topics in a category (and subcategory).

Please take a moment to read our [community guidelines](#).

[Science](#)
[Data Q&A](#)
[all tags](#)
[Latest](#)
[Bookmarks](#)
[My Posts](#)

[+ New Topic](#)









Topic		Replies	Views	Activity
<input checked="" type="checkbox"/> How will users access Year One AP Templates dpdd, ap, dia, drp	 	1	48	Jun 3
<input checked="" type="checkbox"/> Will DIA Objects be matched between DRP and AP? dpdd, ap, dia, drp	 	10	94	Jun 3
<input checked="" type="checkbox"/> Access to forced photometry and postage stamps defined by sky position (not DIAForcedSource position)	 	2	134	Feb 19
<input checked="" type="checkbox"/> For how long will forced photometry be run on DIAObjects, after discovery?	 	2	176	Feb 19
<input checked="" type="checkbox"/> Alert format, serialization, and transport	   	3	235	Oct '19
<input checked="" type="checkbox"/> Loading large numbers of catalogs with the Butler	  	2	151	Aug '19
LSST Answers to Community Broker FAQs science, brokers		0	487	Aug '19

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[New Topic](#)

View topics you have posted in.

Topic		Replies	Views	Activity
Mosaic.py not found in hscPipe 8.3 <span>1</span> ■ Support		8	104	10h
Recovering the PSF from the CORR images ■ Support    psf, psfex		3	69	7d
Proposed new category in "Science": "Statistics Q&A" ■ Meta		1	58	7d
<hr/> last visit <hr/>				
'calexp' resulted by obs_decam+processCcd is not loaded on ds9 ■ Support		2	49	8d
Sky frame for HSC data ■ Support		1	54	9d
☑ New install of lsst_stack, numpy not found ■ Support		28	228	Jun 14
☑ How to use ImageDifference.py ■ Support    imagedifference, hsc		8	178	Jun 12

# A "topic" is a "thread": an initial post and then replies.

## Alert format, serialization, and transport

Science Data Q&A



MelissaGraham LSST

Oct '19

A question about alert serialization and transport posed in a [GitHub issue](#) which we are posting here, as it seems likely to be of broader interest:

The section **3.5 Alerts to DIAsources** (Latest Revision: 2019-07-29), describing alert serialization and alert transport, is not consistent with what is described in **LDM-612** (Latest Revision: 2019-05-13).

Especially:

- These alerts will be issued in VOEvent format, and should be readable by VOEvent-compliant clients (LSE-163)

is in conflict with

- LSST is prototyping a bulk transport system built on the open-source distributed queue system Apache Kafka, with Apache Avro used as a binary serialization format. (LDM-612).

What would be the correct description then?

Solved by [ebellm](#) in post #3

I would distinguish between the semantic content of VOEvents, the serialization format, and the transport layer (as [@RobSeaman](#) discusses below). For bulk transport to community brokers LSST is definitely planning to use Kafka in place of VTP. Our prototype alert formats and serialization are not ...

🔗 🚩 📄 ... ↩ Reply

created Oct '19 last reply Oct '19 3 replies 242 views 4 users 4 links



RobSeaman Transients & Variable Stars member

Oct '19

Two years ago there was a draft IVOA note discussing this issue:

[ivoa.net](#)



[VOEventJSON.pdf](#)

Don't know the current status. Suggest that at least some relatively small amount of effort is warranted to maintain VOEvent compliance. Considering that the VOEvent working group demonstrated a JSON serialization as early as 2005, this should not be too onerous. (AVRO is layered on JSON.) Also in 2005, a prototype of VOEvent transport was demoed at the NVO summer school using a third-party publish-subscribe paradigm. There's no reason the Kafka publish-subscribe model shouldn't work.

Which is to say that requirements on the internal LSST format and protocols can be considered separately from a requirement for easy translation into VOEvent for community interoperability.



ebellm Eric Bellm LSST Data Management

Oct '19

Speaker: Jeff

I would distinguish between the semantic content of VOEvents, the serialization format, and the transport layer (as [@RobSeaman](#) discusses below). For bulk transport to community brokers LSST is definitely planning to use Kafka in place of VTP. Our prototype alert formats and serialization are not very VOEvent-like, but could be evolved to be more so, and we have had [conversations within the IVOA](#) on this topic. Finally I'll note that we're committed to providing a formal VOEvent interface from the LSST filtering service, which is user-facing.

Even as it stands, the document conflict is not quite as sharp as it appears: the footnote to the LSE-163 passage above says "Or some other format that is broadly accepted and used by the community at the start of LSST commissioning", and Avro & Kafka are presently in use by ZTF and several prototype alert brokers.

Finally I'll note that many of our change-controlled documents would benefit from updates to reflect our most current thinking-this is one such place.

1 Reply

👍 Solution 🗑️ 📄 ... ↩ Reply



This is the first time JulienPeloton has posted - let's welcome them to our community!



JulienPeloton Julien

Oct '19

Thank you [@MelissaGraham](#) for bringing the issue here, and [@ebellm](#) RobSeaman for replies.

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Concerning the layer [alert system -> community brokers], I am not sure having alerts being more VOEvent-like would be a plus. To my opinion, the real challenge here is to have a high efficiency to transmit data from one side to another - and the combo Kafka & Avro is meant for (both in terms of performance & integration with other big data tools).

However I completely agree with the use of VOEvent-like alerts for the LSST filtering service (and in the exit side of community brokers), as there the integration with the scientific community tools matters the most.

👍 Solution 🗑️ 📄 ... ↩ Reply



Share



Bookmark



Flag



Reply



Watching

You will receive notifications because you created this topic.

A "topic" is a "thread": an initial post and then replies.

This topic starts with a post that asks a question.

The tagged solution floats to the top.

The topic's author and Community moderators may tag a post as a solution.

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ebellm Eric Bellm LSST Data Management

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Solution



Share



Bookmark



Flag



Reply



Watching

You will receive notifications because you created this topic.

Use "reply" to post in a thread.

## Create a new topic in a category.

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Please take a moment to review our [community guidelines](#).

Science
Data Q&A
all tags
Latest
Bookmarks
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Topic

Replies Views Activity

How will users access Year One AP Templates  
dpdd, ap, dia, drp



1

48

Jun 3

Will DIA Objects be matched between DRP and AP?



10

94

Jun 3

[+ Create a new Topic](#)



Type title, or paste a link here

Science
Data Q&A
choose optional tags for this topic
+













Type here. Use Markdown, BBCode, or HTML to format. Drag or paste images.

[+ Create Topic](#) [cancel](#)

« hide preview

New to the  
Community.lsst.org  
forum?

Start in the "Meta" category.


  **Welcome to community.lsst.org** 

■ Meta








system 

13  Jun '15



**community.lsst.org**  is a place for the astronomy community to discuss the Large Synoptic Survey Telescope's development and get help with using LSST's software today.

### What's here

Discussions are sorted into categories:

- **Support**  for community-driven help with the LSST software stack.
- **Announcements**  for official notifications from LSST, such as software releases, or events.
- **Science**  for public discussions about LSST-related science.
- **Science Collaborations**  for discussions within [LSST Science Collaborations](#)  (collaboration membership is required to participate). Sub-categories are also available for individual collaborations.
- **Meta** for discussion related to this forum, such as how to format content or to make feature requests.

You can also join Project staff in discussing LSST's construction in these categories:

- **Data Management**  for general Data Management and LSST Stack development discussions.
- **Simulations**  for discussing simulations and the observing strategy planning (including the Metric Analysis Framework, MAF).
- **EPO**  for discussions about Education and Public Outreach.
- **Camera**  for discussions about LSST's camera development.

A full list of categories is available at <https://community.lsst.org/categories> .

New to the  
Community.lsst.org  
forum?

Check out topics  
tagged as “how-to”.

*E.g., how to  
embed code or  
LaTeX in posts.*

A screenshot of the Community.lsst.org forum homepage. A large teal arrow points from the top center to the 'forum-howto' filter button. The page shows a list of forum topics, each with a 'Meta' tag and a 'forum-howto' tag. The topics are: 'Tips for effective conversation on the forum: replies, quotes, and replying as a new topic', 'How to subscribe via RSS', 'Why do I get nagged about my post's title or length?', 'How to format posts, including math and code', 'Understanding and Using Discourse's Flat Threading', 'How can I get a Mac desktop app for community.lsst.org?', 'How to use tags for forum topics', and 'How do I login using GitHub authentication instead of a password?'. The last topic is checked with a checkbox. At the bottom, there is a link to 'How to subscribe to emails of all new topics in Categories or Tags'.

Community

Please take a moment to read our community guidelines.

all categories ▾ forum-howto ▾ Categories Latest Bookmarks My Posts

☰ Topic

Tips for effective conversation on the forum: replies, quotes, and replying as a new topic  
■ Meta forum-howto

How to subscribe via RSS  
■ Meta forum-howto

Why do I get nagged about my post's title or length?  
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How to format posts, including math and code  
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How can I get a Mac desktop app for community.lsst.org?  
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■ Meta forum-howto

How to subscribe to emails of all new topics in Categories or Tags  
■ Meta forum-howto

Speaker: Jeff

## Prefer to get emails?

<https://community.lsst.org/t/how-to-subscribe-to-emails-of-all-new-topics-in-categories-or-tags>

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## How to subscribe to emails of all new topics in Categories or Tags

■ Meta forum-howto



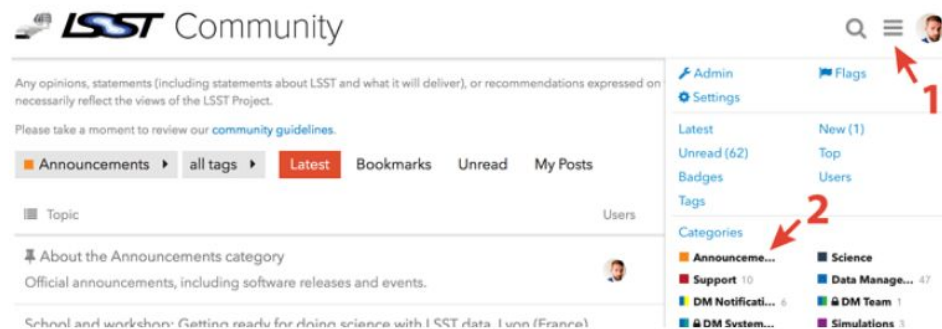
**jsick**  Jonathan Sick LSST Data Management

4  Oct '16

[community.lsst.org](#) replaces traditional mailing lists as a way of broadcasting announcements and getting technical support from the community. Even though this forum lessens your email overload, you can still get emails whenever a new topic is created in the categories or tags you want to follow.

As an example, we'll subscribe to the [Announcements](#) category.

First, go to the [Announcements category page](#). It's easy to get to using either the **Categories** button on the homepage navigation bar or the site's menu (see **1** and **2** in the screenshot):



Then click on the **Circle Icon** button (**3** in the screenshot) in the category's menu bar. Select a notification setting (**4** in the screenshot):

## Primary categories for “user support”.

### Science - Data Q&A

For science questions about LSST data products.

### Support

For help with the LSST science pipelines and Rubin Science Platform.

The above two categories are monitored by the DM team on a best-effort basis.

Discussions to coordinate responses occur in LSSTC Slack #dm-support.

### Science - Statistics Q&A

For statistics-related questions on all topics related to astronomical data analysis, at all levels.

Monitored by the Informatics and Statistics Science Collaboration (ISSC).

Linked to LSSTC Slack #issc-ask-the-issc.

all categories ▾	all tags ▾	Categories	Latest	Bookmarks	Un
Category		Topics			
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		■ LSST Science Platform			
		<b>Data Management</b>	921		
		Discussions with LSST Data Management developers about LSST Stack development.	1 unread		
		■ DM Notifications ■ DM Team ■ DM Meetings ■ DM IN2P3			
		■ DM RFD			
		<b>Simulations</b>	53		
		Discussions related to LSST Simulations.			
		■ Sims Announcements			
		<b>Camera</b>	1		
		For discussions related to the LSST Camera.			
		<b>Cross-System</b>	111		
		The Cross-Systems category hosts sub-categories for specific collaborations between LSST's subsystems.			
		■ Camera-DM Visualization ■ Calibration Operations			
		<b>EPO</b>	23		
		Discussions about LSST Education & Public Outreach.			

Pause for [Community.isst.org](https://community.isst.org) questions.



recall from  
Tuesday's  
System  
Performance  
presentation

Recall the following from the Day 1 introduction to CE for DP0.

The goals are: (1) to test the DMS/RSP and inform further development, and (2) to prepare the community to use data products and services.

These goals rely on community engagement in DP0.

The ~300 community participants, “**DP0 Delegates**”, will have the important role of *representing* the community as *learners* and as *contributors*. This role comes with expectations and responsibilities as well as the benefit of early RSP access.

“**Onboarding resources**” to the IDF and the RSP must be created to ensure that delegates learn a sufficient amount to enable their contributions.

“**Delegate contributions**” might include creating and sharing materials with the community, or testing aspects and providing feedback requested by Rubin staff.

An RTN of “Guidelines for Community Participation in DP0” is in prep.

Today we can go a bit deeper into the envisioned DP0 delegate role.

**Benefits for DP0 Delegates** include:

- an accelerated learning experience in the RSP/IDF via onboarding resources
- become more competitive for grants and funding, and for early science
- opportunity to take leadership role in their field/Sci.Collab., share results of their work
- opportunity to represent their field/Sci.Collab. by advocating for RSP developments

**Onboarding resources are necessary for DP0 delegates to obtain the benefits:** e.g., user guides, notebook tutorials, video demos, live workshops, and the related infrastructure and support for the wide diversity of delegates being onboarded. Together we must create these.

With the Stack Club Course, after the tutorials some learners asked “*what kind of project should I do?*”. We received clear feedback that pre-designed options for projects was desired.

**Delegate contributions/opportunities** are envisioned to be simple, optional, and provided as a menu for delegates to choose from, based on their interests and expertise. E.g., creating and sharing materials with their Sci Collab, writing a Community.Isst.org post about their work, running a checklist test of an RSP aspect, or filling out a Rubin-designed feedback survey.

**The rest of our time will be spent in open discussion about:**

1. Brainstorming onboarding resources for DP0 delegates.
2. Brainstorming potential delegate contributions/opportunities that inform Rubin or enhance DP0 impact in community / Sci Collabs.

This is NOT your only chance to provide input to the community engagement team's efforts regarding DP0.

The CET will integrate this input into an in-prep RTN and circulate it for additional input (e.g., issue an RFC; TBD).

## **Discussion 1: Brainstorming onboarding resources for DP0 delegates.**

## **Discussion 2: Brainstorming potential delegate contributions/opportunities.**

These could inform Rubin work, or enhance impact of DP0 in Sci Collabs / community.