

Summary of ALMA Operations Jan 2011 Meetings

A NA Perspective
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ALMA Operations January 2011 Meetings

- Jan 18-20: Science Operations IPT f2f meeting, Victoria, BC
- Jan 24-25: CIPT Planning meeting, Socorro, NM
- Jan 26-28: ALMA Observing workshop, Socorro, NM

Operations Timelines

- UP & helpdesk deployment: ~~March 1 (opening to the public). Testing done before March 1~~
Moved to March 15 in order to allow choice of ARC for support
- OT for CfPO (ES capabilities defined by mid-March):
 - Tests of OT ES **functionality** in the second half of February
 - Tests of OT ES **configuration** March 15-25
- **CfPO: March 31:**
 - Download of ES version of the OT (submission to Archive not possible)
 - Science Portal content complete for CfPO
- Ph1M: version to be used in “real” PRP: May (tests in May/June)
- **Archive: official opening June 1:**
 - proposal submission, (distribution of SV data?)
- **Deadline for proposal submission: June 30**
 - Proposal Assessment period: July 8 – August 8 (TA: July 18-22 in Chile)
 - ARP/APRC meeting week: August 15-19
 - Phase 2: August 29 – September 29: OT version 8.1? (second ph2 period in Feb?)
 - **Message to PIs on the outcome of the PRP: starting end of August**
- **Start of Early Science: September 30**

OT Timelines

- Dec 20, 2010: R8.0
- Jan 5, 2011: R8.0.1: IT3 version
- mid Feb 2011: R8.0.2: IT3 bugs, improved overheads, improved calibration requirements? Improved TA forms?
- ~March 15, 2011: Final ES Configuration file
- March 31, 2011: OT downloadable from ARCs
- April, 2011: developers freeze for R8.1
 - improved SB generation; some support for pipeline processing
- June, 2011: R8.1
- Dec, 2011: R9.0 (freeze June-July?)
 - Co-PI's, ACA, mixed modes, OTF Interferometry, multiple affiliations, PEL?

OT New Ops Requirements

- Single pdf file to upload (science justification, technical justification, figures etc.). Max size: 5 pages, 20 MB [R8.0.2](#)
- [Accounting of executive time for PIs with multiple executives:](#)
 - [R8.0.2: Accommodation for Taiwanese users, but only option to submit as NA or EA \(i.e., not to split between for any given proposal\)](#)
 - [R9.0: support for multiple affiliations \(see comments under UP\)](#)
- PIs cannot edit Phase 2 material (at least for ES) [R8.1](#)
- Minimum time on source in OT: 10 seconds [R8.0.2](#)
- The possibility to calculate integrated times based on metrics other than sensitivity in narrowest band (e.g., spectral dynamic range; sensitivity in continuum bands) [Needs to be better defined by SciOps] [9.0 if input soon](#)

New Commenting Requirement (OT, Scheduler)

- New use-case:
 - [Already implemented in R8.0](#)
 - As part of proposal, users (in technical justification) or assessors (as part of TA process) may mention observing constraints that are not captured by OT-phase1 (e.g., need to observed longer to get full UV tracks)
 - If proposal approved & evaluation accepted, then during OT-phase2 ARC astronomers will capture intent from panel report and use OT to make notes in existing text field associated with each SB
 - ➔ **NEED TO INCLUDE IN INSTRUCTIONS TO PROPOSERS, ASSESSORS & PANELS**
 - [For cycle 1:](#)
 - JAO staff (group that block-schedules; AoD) need to be able to see these comments (Scheduler) [R8.1.1](#)
 - In some cases, AoD may need to add to this field (e.g. “W UV tracks taken; needs E tracks”) [R9?](#)

User Portal

- UP/Helpdesk deployed: March 18 (no announcement). Difference from IT3 version:
 - UP served from ARCs
 - Taiwanese affiliated with either EA or NA (selected in OT)
 - Executive Affiliation determines the ARC for support (non-ALMA members may select any ARC)
- Changes for R9.0 (cycle 1)
 - Support for users with multiple affiliations (involves model change in APDM)
 - accounting of executive time: choose between 100% to one executive or split equally between executives
 - New Ops Req: Co-PI's (for Large Proposals only) R9.0

Ph1M New Requirements

- Assessors gives score with two decimals (Ph1M test in May). Move to ranked lists R9?
 - Possible to edit time for projects (to enter project times based on Technical Justification; to enter maximum times for projects assigned by APRC) (for the May test: edit the time and set a flag for edited proposals. Have a report for those proposals with edited time. This is a time consuming implementation)
- INCLUDE IN INSTRUCTIONS TO PROPOSERS/ASSESSORS**
- Proposers: clearly indicate in Tech. Assessment if time not from Sensitivity Calculator**
 - Science Assessors: be sure to check if time requested in proposal text differs from summary sheet**

Archive & Data Packer

- **Timeline:**
 - Feb: OSF/SCO replication
 - March: migrate metadata from OSF to SCO
 - April: extend replication to ARCs
 - June 1: available for proposal submission
- **Modified Requirements**
 - Anonymous access to non-proprietary data [R8.1](#)
 - Delivery of data from ObsUnitSets. Proprietary time is counted from delivery of ObsUnitSet data to the PI.
 - **Rules for ObsUnitSet need defined!**
 - Extraction of calibration data from ASDMs
- **DATA Packer (requirements needed by Feb4!)**
 - Proto-version in R8.1.1
 - **Final version R9.0.**

Pipeline Status

QuickLook

- Clear improvements in all QL displays!
- Calibration summary file prototypes needed by AQUA
- Alarm implementation

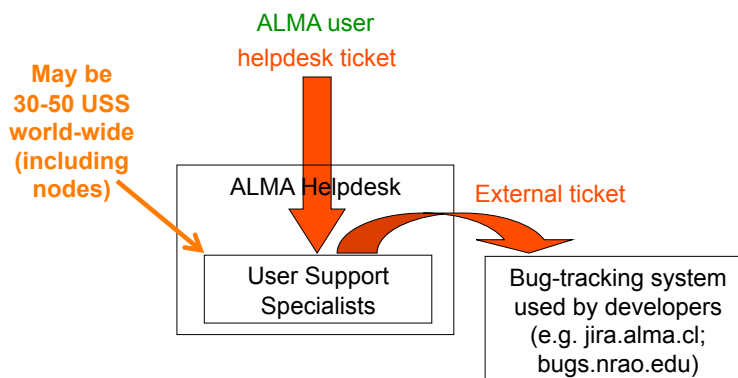
Science Pipeline

- Priority on modes depends on what is offered at ES
- Current strawman assumptions:
 - Single-field Interferometry
 - Pointed Mosaics
 - Polarization (critical for Band 7)
 - Phase transfer
 - Single-Dish(?): The development for SD/IF merging of datasets will ANYWAY go on
 - Self-cal(?)

Helpdesk

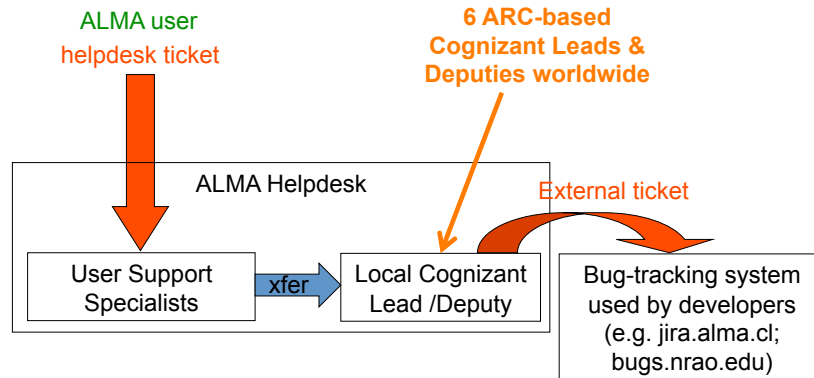
- Need to define final departments/categories
- PHT needs to decide if it wants to use alma JIRA or helpdesk for some issues
- Change in current workflow for tickets involving bugs or enhancements of end-user software systems:

Current workflow for user-reported issues with end-user software



Only done for tickets believed to be real bugs/enhancement requests
 USS opens ticket in bug-tracking system of appropriate software subsystem, notes resulting ticket ID in response to user and put ticket on hold pending response

Alternative 1: Limit USS w/access to software bug-reporting systems (used by OT & UP in IT3)



USS transfers tickets to local Cognizant Lead/Deputy (sometimes this is the subsystem scientist)
 CL/Deputy opens ticket in bug-tracking system of appropriate software subsystem; proceeds as before

13

For current system & alternative 1, need to know which bug reporting system to use for each end-user software subsystem

End-user Software Subsystem	ALMA bug-reporting system	Other bug-reporting system
Science Portal	jira.alma.cl?	?
ObsPrep	jira.alma.cl?	?
Ph1M (assessors tool)	jira.alma.cl?	?
Project Tracker	jira.alma.cl?	?
ALMA Science Archive	jira.alma.cl?	?
Data Packer	jira.alma.cl?	?
CASA	jira.alma.cl	bugs.nrao.edu
CASA/Simdata		bugs.nrao.edu
Helpdesk	TBD	
Splatalogue	TBD	bugs.nrao.edu
....		

14

Other Actions from f2f meetings

- EA, EU ARC representation on splatalogue oversight committee & start meeting →AR
- Identify TA team to travel to Chile July 18-22 →JH
 - TH, HL, CB, SC, AW?, EF? Backup: JH, SS?, KS?
- Organization & plan for OTguides →JB
- NA Institution list for UP →LvS
- Helpdesk admin guide →KSharp
- Final helpdesk departments/categories →AR, JH, KSharp
- Keep track of outreach numbers →KSheth
- Coordinate outreach/training material & events →KSheth
- Deployment of OT off of ARCs webpages (NOT within SP!) – contact point, synchronization, “trusted site” certification
- Discuss need for Bootcamp for CASA/OTphase2

Other items from f2f meetings:

- Establish CFP Working Group to develop text/documents for CFP (mostly SP WG, but let that group finish up, then reformulate) →CL, AE
- EU ARC will tell Manchester to validate web OT simulator against simdata. Until then, it should be called “Manchester ALMA Simulator”, not “ALMA Simulator”
- Archive/SP “policies” need to be recast as “procedures” (make clear where policies are derived from....action on JAO)
- DSO needs to set up DSO/ARC reporting system in jira.alma.cl and develop procedures/workflows for us all to follow (PHT, phase2, QA3)
- Science Portal content needs to be fully developed by mid-March for review. How to switch over from ARCs sites that currently publish this material?