

# AAT/PPI 4.2 Series Release Notes

## Welcome to the new NRAO archive!

This archive tool provides access to VLA (historical and post-upgrade), ALMA (Cycles 1 and higher), VLBA, and significant fraction of GBT data. Users seeking GBT data not found here should submit a science help desk ticket.

Users seeking ALMA Cycle 0 and/or the full assortment of ALMA image and calibration products should use the ALMA Science Archive (<https://almascience.nrao.edu/asax/>).

For questions, please contact the science help desk (<https://help.nrao.edu>) and select the "Data Products" topic.

- Welcome to the new NRAO archive!
  - Introduction
  - Release Notes - 4.2.0 - 2022.09.06
    - Epic
    - Engineering Task
    - Feature
    - Bug
  - Release Notes - 4.2.1 - 2022.12.08
    - Known Issues
    - Epic
    - Engineering Task
    - Feature
    - Bug
  - Release Notes - 4.2.2 - 2023.03.30
    - Research Request
    - Bug
    - Story
  - Release Notes - 4.2.2.1 - 2023.04.12
    - Bug
  - Release Notes - 4.2.3 - 2023.06.07
    - Bug
    - Story

## Introduction

Additional features this release include:

- Support for VLBA FITSAIPS and GMVA products
- Work under the hood to support VO TAP queries
- Delivery structure improvements
- Improved ALMA calibration availability

## Release Notes - 4.2.0 - 2022.09.06

### Epic

- [SSA-7263] - ALMA KeyCloak Mitigation
- [SSA-7394] - Standardize metadata units
- [SSA-7395] - Commission ObsTAP scriptable search interface
- [SSA-7514] - ALMA Butler integration

### Engineering Task

- [SSA-7275] - Adapt RH to use ALMA's KeyCloak
- [SSA-7404] - identify and mitigate bad metadata observations
- [SSA-7405] - transform existing metadata
- [SSA-7406] - modify ingestion to use agreed-on units
- [SSA-7407] - document agreed-on units
- [SSA-7408] - modify indexer to use agreed-on units
- [SSA-7409] - commission new VMs
- [SSA-7410] - implement postgresql mirroring
- [SSA-7411] - make VO schema functional/performant
- [SSA-7412] - deploy VOTap web service
- [SSA-7508] - Workspaces Support: Add pointing correction to VLASS restores
- [SSA-7515] - dust off the code, get it into revision control
- [SSA-7516] - deploy the ALMA Butler as a cron job

### Feature

- [SSA-7381] - WS Support: Update Ingest to handle SECI Images
- [SSA-7418] - WS Support: Adding ancillary product support to the locator service
- [SSA-7421] - Add wget command in emails generated by the AAT upon downloading data
- [SSA-7464] - fix labels on scans page
- [SSA-7467] - make scans report sortable
- [SSA-7502] - Remove the AAT welcome (pop up) page

### Bug

- [\[SSA-7429\]](#) - WS Support: Ensure Calibration status flag is set properly on ingestion complete

## Release Notes - 4.2.1 - 2022.12.08

### Known Issues

- Display of >1000 EBs throws Solr connection errors on production. Cause is under investigation.

### Epic

- [\[SSA-7569\]](#) - fix standard position searches
- [\[SSA-7573\]](#) - modify `select all` functionality
- [\[SSA-7580\]](#) - fix 502 errors for large VLBA projects

### Engineering Task

- [\[SSA-7591\]](#) - WS Support: Ingest SEIP\_parameter.list as a separate ancillary product
- [\[SSA-7606\]](#) - WS Support: Ancillary file extension Fix
- [\[SSA-7621\]](#) - isolate & extract tap-server, embetter it
- [\[SSA-7653\]](#) - AUDI Ingestion issue for Request 1142352135
- [\[SSA-7672\]](#) - VLBA indexer cronjob not running hourly

### Feature

- [\[SSA-7574\]](#) - select one, then all, behavior change
- [\[SSA-7575\]](#) - select all displayed functionality
- [\[SSA-7627\]](#) - Remove Legacy Archive label and link from ALL HEADERS in the new archive

### Bug

- [\[SSA-7436\]](#) - service throws 502 errors for huge VLBA projects
- [\[SSA-7497\]](#) - address radius issue with standard position searches

## Release Notes - 4.2.2 - 2023.03.30

### Research Request

- [\[WS-1398\]](#) - where are the missing ALMA calibrations?

### Bug

- [\[WS-1329\]](#) - AUDI requests will not validate consistently in velocity space
- [\[WS-1346\]](#) - Mark4 files with 0 length getting added to new archive metadata
- [\[WS-1410\]](#) - Errors encounter intermittently with repeated TAP queries
- [\[WS-1539\]](#) - Project identification for ALMA calibration ingestion

### Story

- [\[WS-1327\]](#) - As a scientist, I would like legacy VLA data deliveries not to be in directories one level deeper than an SDM
- [\[WS-1328\]](#) - As a scientist, I would like to see all the ALMA calibrations
- [\[WS-1330\]](#) - As a product owner, I want the archive UI to send basic downloads to Workspaces
- [\[WS-1334\]](#) - As a user, I do not want a file number limit
- [\[WS-1335\]](#) - As a user, I want to be able to batch download of calibration tarballs
- [\[WS-1338\]](#) - As a user, I want to be able to save to other network mounted drives than lustre ones
- [\[WS-1516\]](#) - As a user, I want to see a visual indication in the UI that an image is proprietary
- [\[WS-1540\]](#) - Check for Only MOUSes for calibrations
- [\[WS-1541\]](#) - Screen out ARI-L Project Calibrations

## Release Notes - 4.2.2.1 - 2023.04.12

### Bug

- [\[WS-1676\]](#) - Fix FilesetID handling in RH

## Release Notes - 4.2.3 - 2023.06.07

## Bug

- [\[WS-1759\]](#) - VLBA Reingestion AMQP timeout
- [\[WS-1797\]](#) - Close files from CASA log raiding
- [\[WS-1844\]](#) - wget on ALMA download is missing ASDMBinary directories

## Story

- [\[WS-1282\]](#) - As an operations manager, I would like AUDI (and subsequently VUDI) to be able to run on a CASA+pipeline version different from the archive default
- [\[WS-1372\]](#) - As an operations manager, I want to retain workflow progress visibility for converted AAT and VLASS workflows
- [\[WS-1593\]](#) - As a user, I would like to see array configuration information in the TAP server returns
- [\[WS-1796\]](#) - Add additional default values to AUDI parameters
- [\[WS-1801\]](#) - As a product owner, I would like AUDI ingest to work with the new self-calibration products
- [\[WS-1842\]](#) - Upgrade AAT/PPI utilities and deployment to python 3.10
- [\[WS-1843\]](#) - wget calls failing with memory errors