

AAT/PPI 3.10 Series Release Notes

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Introduction

The AAT/PPI (Archive Access Tool/Pipeline Processing Interface) is designed to be a replacement for the NRAO's current archive tool (<https://archive.nrao.edu>) that gives astronomers the ability to utilize the NRAO's processing clusters to manipulate observation data using CASA. This release provides the additional capability of providing ALMA OUS restores.

Additional features include:

- Responsive interface that works on mobile devices.
- Natural language (text based) searches of the observation's title, abstract, source names, authors, and more; e.g., search on 'nova'.
- Search results displayed as an Observations View (similar to the legacy archive) or a Projects View, which aggregates observations by project and also displays the title, abstract and other assorted details missing from the Observations View.
- Display a scans report for a given execution block, including the scan intents and subscans.
- The 'my data' feature: log in, press a button, and see a list of your observations.
- If you link your ALMA and NRAO accounts, you can use either to access your observations.
- For ALMA and VLA you can download your SDM as a measurement set and filter by scan intent.
- For VLA you can download a calibrated measurement set restored from a previously run calibration pipeline.

New Features

- refactoring of VLBA IDIFITS ingestion to support older format (multiple UV_DATA tables)
- support for VLASS quicklook image and VLBA IDIFITS and UVFITS reingestion, in order to improve metadata quality
- faster availability of restore functionality, as the search index updates are more complete upon calibration ingestion
- support for customization of cluster job limits (both time and memory) to allow greater flexibility of CIPL processing
- support for data quality notes

Known Issues

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Engineering Task

- [\[SSA-6915\]](#) - Missing ALMA ASDM and calibration files
- [\[SSA-6934\]](#) - add locator to ingestion complete event
- [\[SSA-6953\]](#) - disable 'tar' option for GBT downloads
- [\[SSA-6969\]](#) - Refine ALMA OUS metadata definitions
- [\[SSA-6987\]](#) - legacy VLA indexer tweak, export -> visibility
- [\[SSA-7054\]](#) - mods for unicorn

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Epic

- [\[SSA-6997\]](#) - text based image searches
- [\[SSA-7009\]](#) - add scan time to scans report

Engineering Task

- [\[SSA-6998\]](#) - add fields to the images core
- [\[SSA-6999\]](#) - modify service to support image_text queries
- [\[SSA-7003\]](#) - Cleaner CARTA process cleanup
- [\[SSA-7010\]](#) - add exposure time to search indexes
- [\[SSA-7011\]](#) - add exposure time to GUI
- [\[SSA-7028\]](#) - Workflow fixes for ingestion of large VLBA fits files

Bug

- [\[SSA-7029\]](#) - GBT position searches don't work
- [\[SSA-7050\]](#) - observations count, telescope facet
- [\[SSA-7105\]](#) - Directory problems with AUDI reimaging