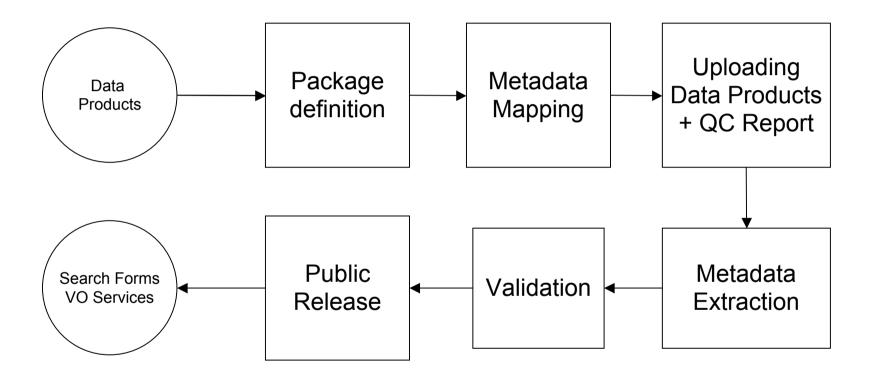
# Phase 3 Tools for ESO Public Surveys

- Submission of reduced data products
- Schematic workflow
- P3 submission interface & tools
- Metadata mapping
- Conclusions

## Submission of reduced data products

#### Schematic workflow

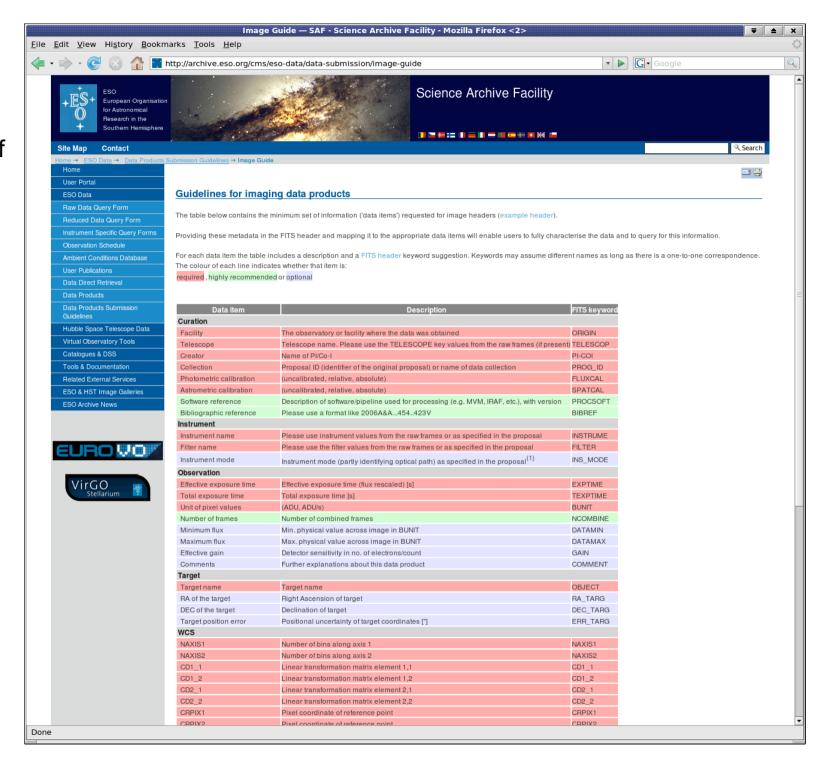


Metadata homogenization is a key issue at the time of archive ingestion, in order to ensure that useful archive services can be build up.

## Submission of reduced data products

- The submission procedure for public survey data products will closely follow the procedure being developed for the delivery of data products resulting from ESO Large Programs.
- Specific guidelines for phase 3 of Public Surveys with focus on the survey data products as stated in the survey management plans are currently under preparation.
- Pls/Co-ls of ESO Public Surveys are being assisted in the submission process by ESO's External Data Products group.

Guidelines for the submission of data products resulting from ESO Large Programs

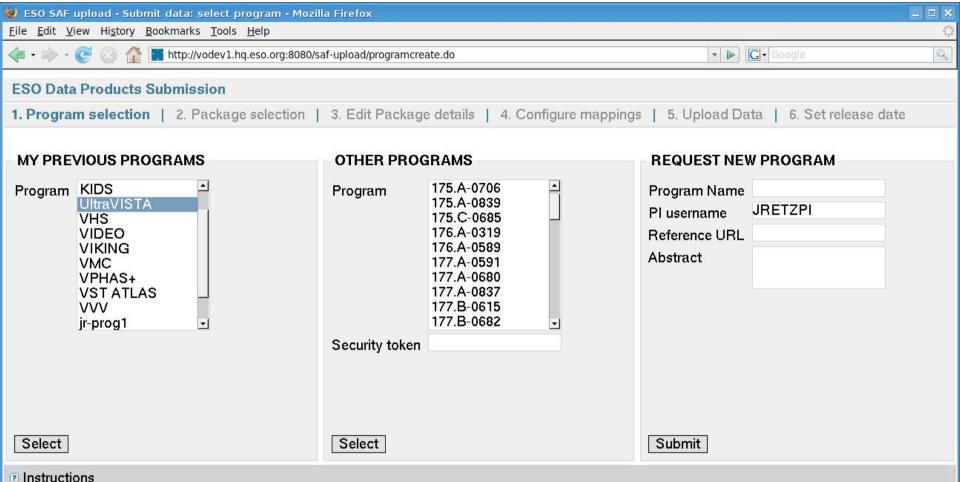


## The P3 user interface for the submission of data products

The web-based <u>Submission Interface</u> provides a unique entry point for the delivery of reduced data to ESO and will guide PI/Co-Is through the submission procedure.

- Project selection
- Data package/release specification
- Configuration of metadata mappings
- Data upload
- Data Release

The submission interface includes the interactive <u>Metadata Editor</u> which is used to define a metadata mapping from the data products to the ESO science archive for each data product type.



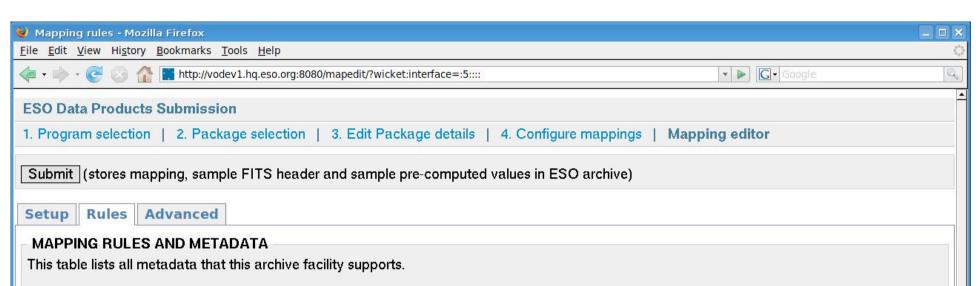
Please select an ESO program from which the data products you are about to submit originate. You can either choose from the list of programs you have previously already submitted data for (left panel), or from the list of other programs data submission has been enabled for (middle panel).

If you select from "OTHER PROGRAM" you have to provide the "Security token" -- a shared password enabling access by a team of investigators. It has been made available at the time of program creation to the requestor (usually the PI of the program).

If your program is not displayed in either list, please submit a request for creating a new program using the right panel. Generally, the ESO program identifier is adopted as program Name.

## The P3 tool for data organization and transfer

- Integrated into the workflow of the submission interface
- To be downloaded from the ESO website
- Executed locally on the users host which holds the data to be submitted
- Creates an inventory of data product files
- Data product type classification
- Supports definition of relations between files
- Secure file transfer to the ESO archive



All required metadata (marked with a \*) must have a value; this value is obtained by executing the rule expression.

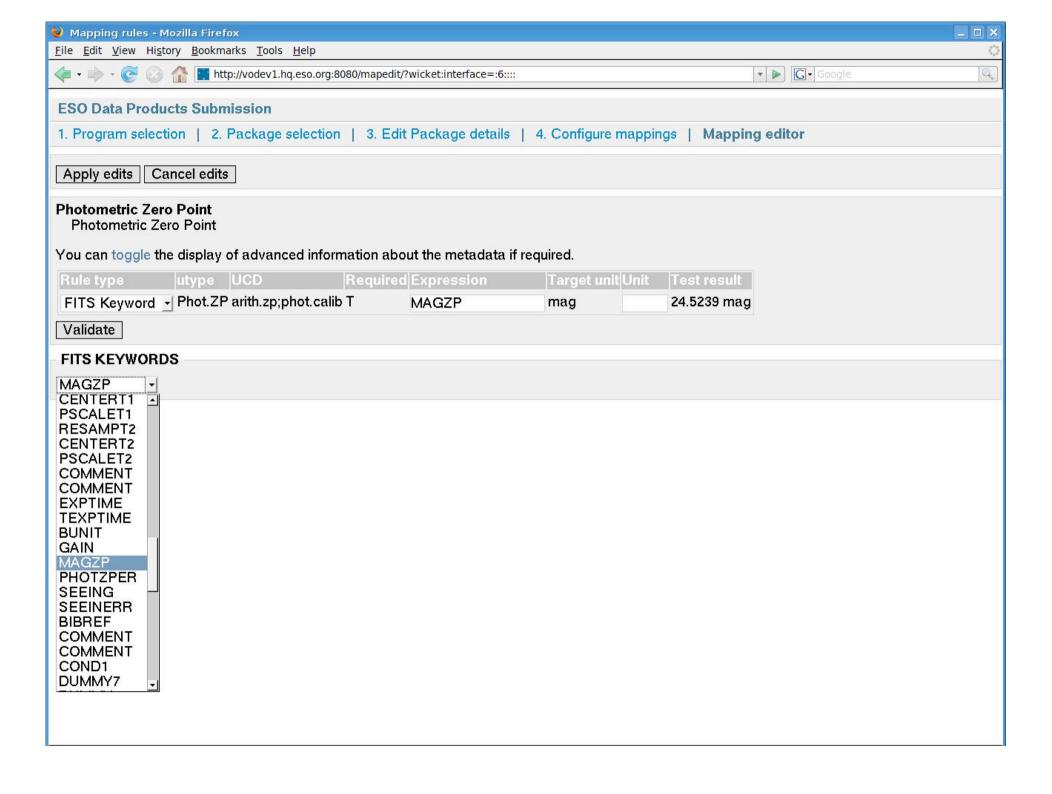
A default rule expression is predefined for all items. To validate the rules, you need first to upload a FITS header. After validation, you should remove the invalid rules.

The validation runs all rules against the sample FITS header, and the resulting values are displayed on the test result column. All required items must have a rule and all mapping rules must to be valid in order to have you dataset properly described.

You can toggle the display of advanced information about the metadata if required.

Validate | Clear rules that generate warnings

Metadata description	Expression	Test result	Actions
Facility *	"ESO-La Silla"	ESO-La Silla	[edit]
Telescope *	TELESCOP	MPI-2.2	[edit]
Creator	"H. Hildebrandt"	H. Hildebrandt	[edit]
Collection	"164.O-0561,169.A-0725"	164.O-0561,169.A-0725	[edit]
Photometric Calibration *	"ABSOLUTE"	ABSOLUTE	[edit]
Astrometric Calibration *	"ABSOLUTE"	ABSOLUTE	[edit]
Temporal Calibration *	"CALIBRATED"	CALIBRATED	[edit]
Software reference	{SOFTNAME}	SWarp	[edit]
Bibliographic reference	'2006A&A452.1121H'	2006A&A452.1121H	[edit]
Instrument name *	"WFI"	WFI	[edit]
Filter name *	FILTER	BB#B/99_ESO842	[edit]
Instrument mode			[edit]
Technique of Observation *	"imaging"	imaging	[edit]
Effective exposure time *	{EXPTIME;s}	1.0 s	[edit]
Total exposure time *	{TEXPTIME;s}	11696.8 s	[edit]
Unit of pixel values *	BUNIT	ADU/s	[edit]
Number of frames	NEXP	39	[edit]



## Conclusions

- Phase 3 represents the final step in the execution of ESO Public Surveys.
- Phase 3 closes the loop with the user community.
- Phase 3 is a joined effort of the public survey Pls/Cols with ESO/EDP.
- Phase 3 deliveries are the survey data products and the QC report as stated and agreed upon in the Survey Management Plan.
- A focused workshop for Phase 3 with tutorials for public survey Pls/Cols will be organized once data products will become available.