

The Role of the EUCLID Archive System in Distributed Data Management & Processing

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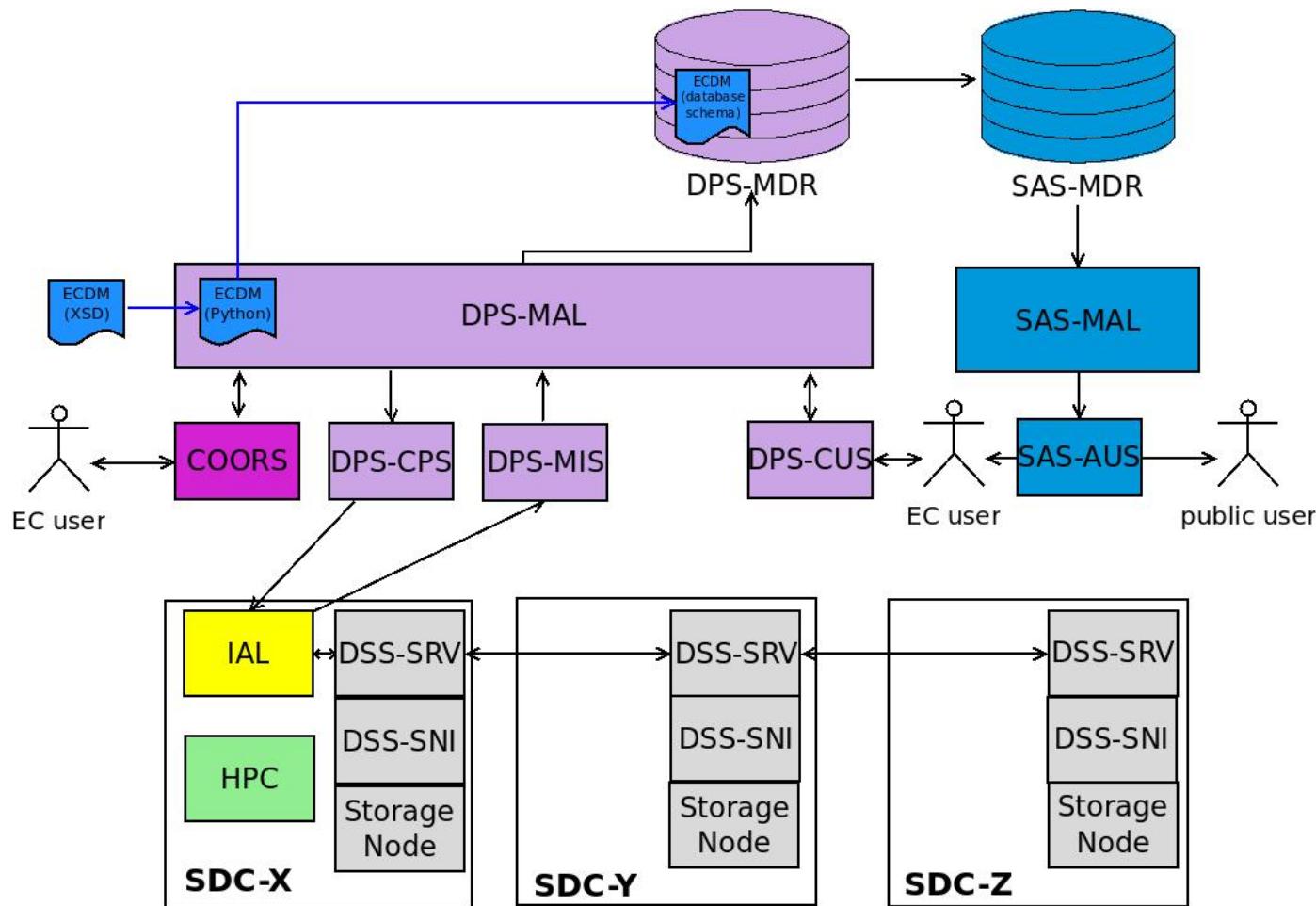
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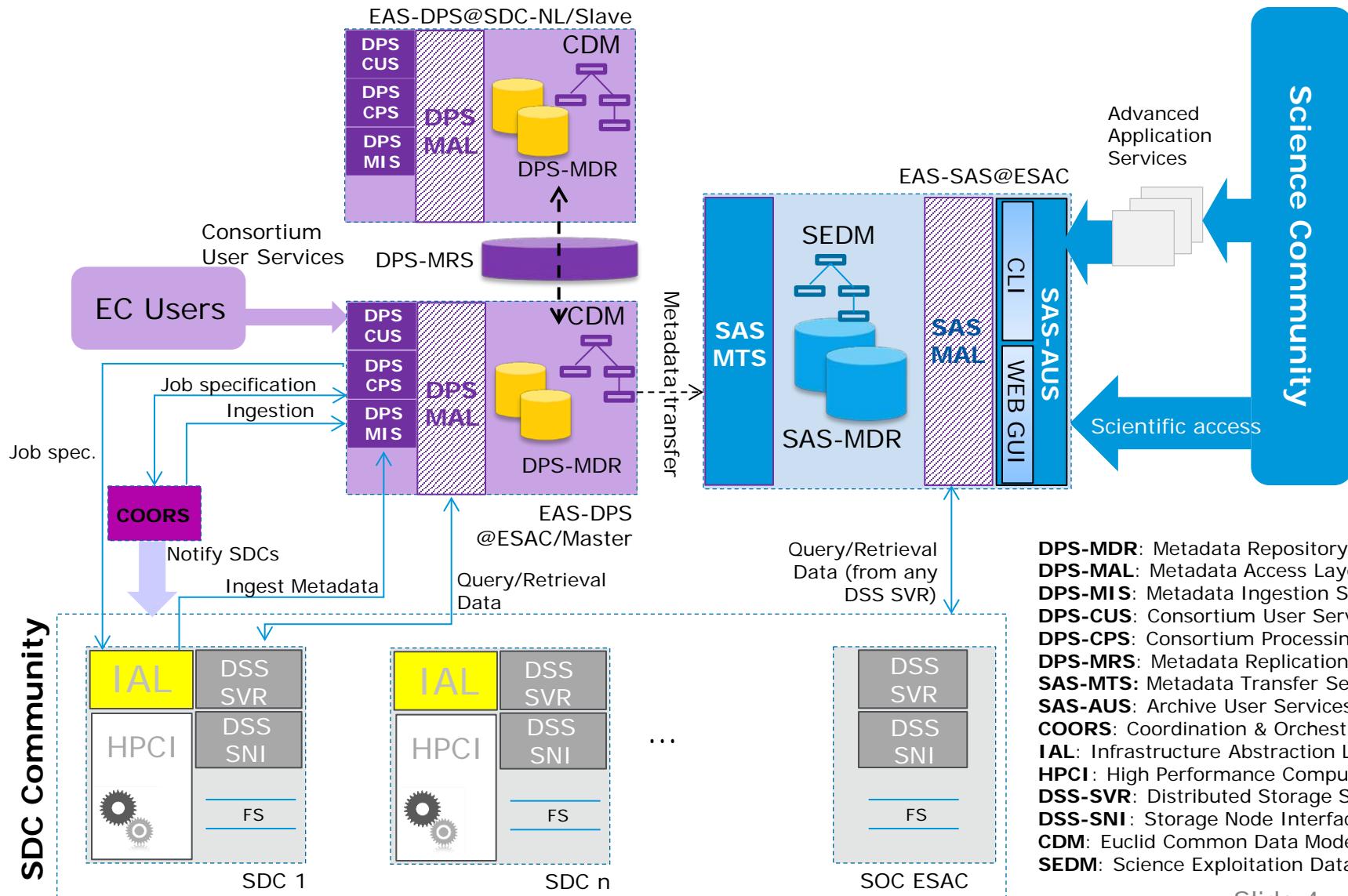
The Euclid Mission Archive (EAS) has a central role in the Euclid mission

- EAS acts as interface between all ground system components
- EAS data distributed across nine national SDCs
- EAS meta-data is centrally stored
- EAS metadata contains all information except images and spectra
- EAS stores dependencies of data products
 - Avoid unnecessary reprocessing
 - Data provenance ensured
- Builds on experience with the WISE information system used by
 - OmegaCAM (VST), Muse (VLT), LOFAR LTA
- Builds on experience with earlier ESA archives
- Traceability and data lineage are strong requirements

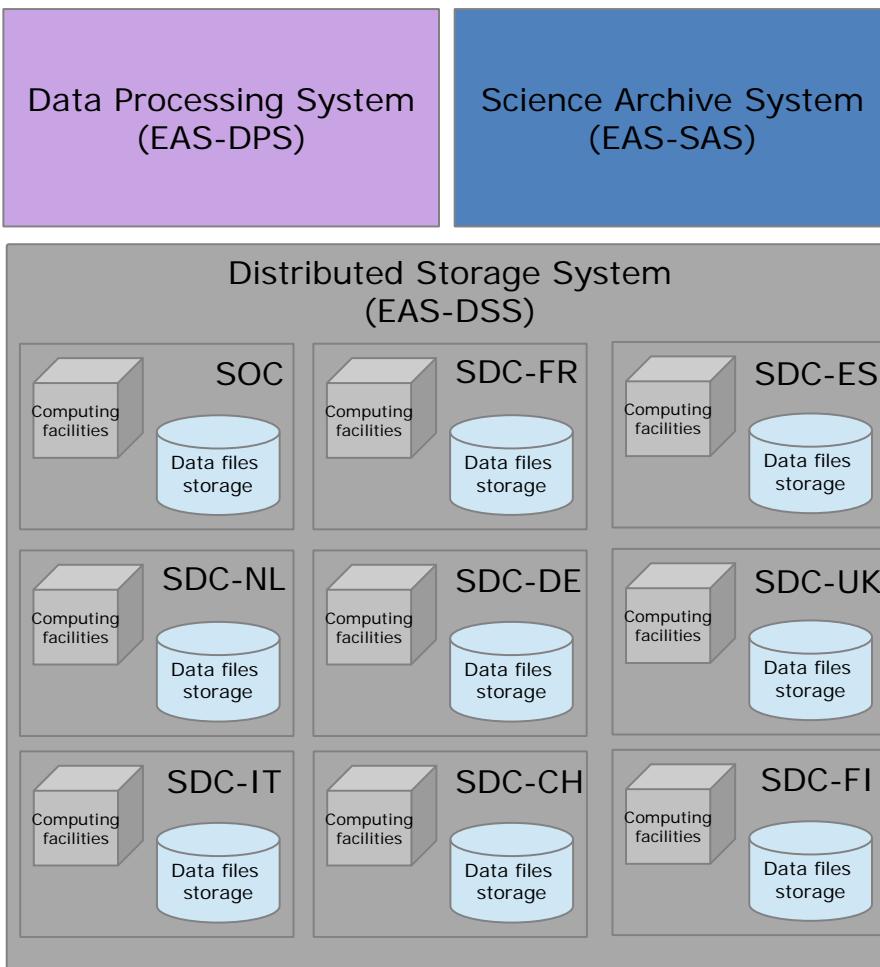
EAS-DPS Design



EAS Design



DSS Servers

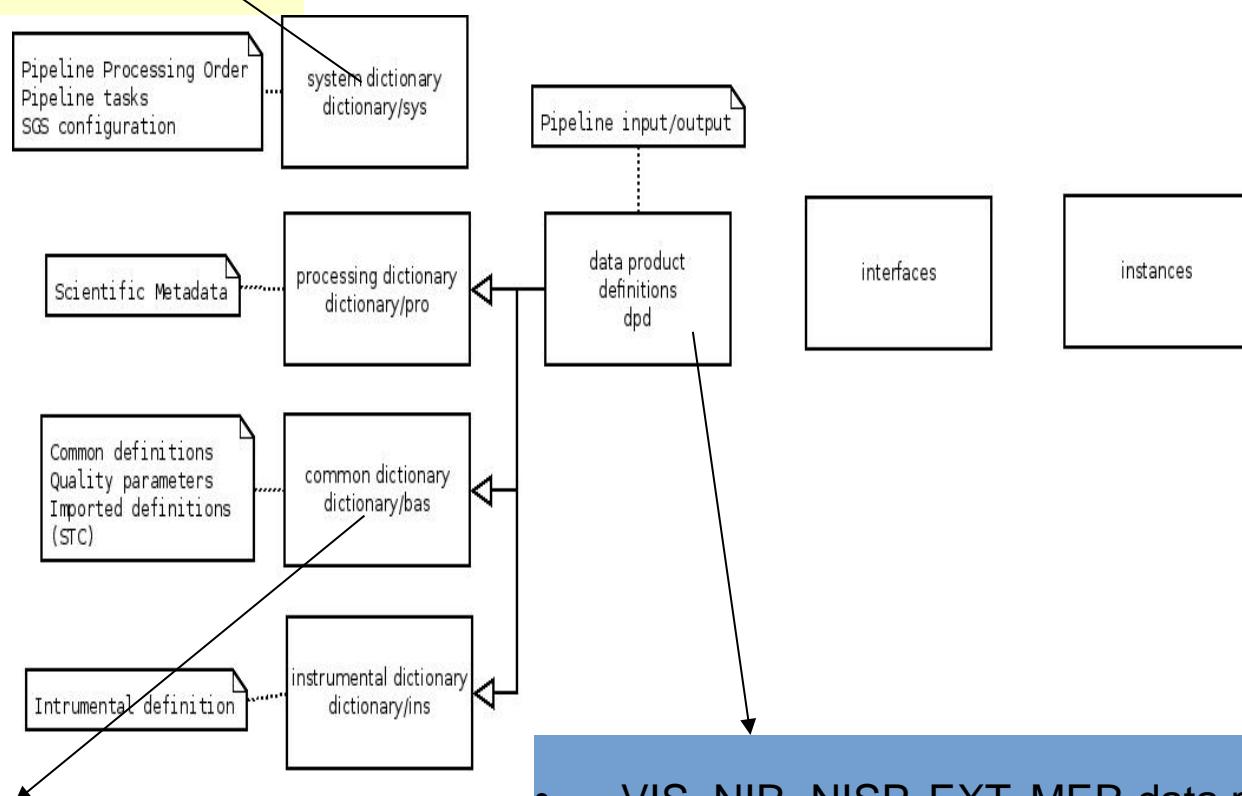


- DSS server installed at each SDC provides access to data at that SDC to other SDCs
- File location in metadata provides a global “file system”
- No constraint on storage solutions at SDCs
- DSS server supports the access of data in SDCs using different protocols
 - sftp, https, gridftp, Astro-Wise dataserver, Irods
- Python common code with modules to support local file systems
- Simple interface: store, retrieve, copy, delete, check
- Extended interface: cut-out services

Euclid Common Data Model

- Pipeline Processing Order (PPO)
- Processing plan
- SGS infrastructure
- IAL processing definitions

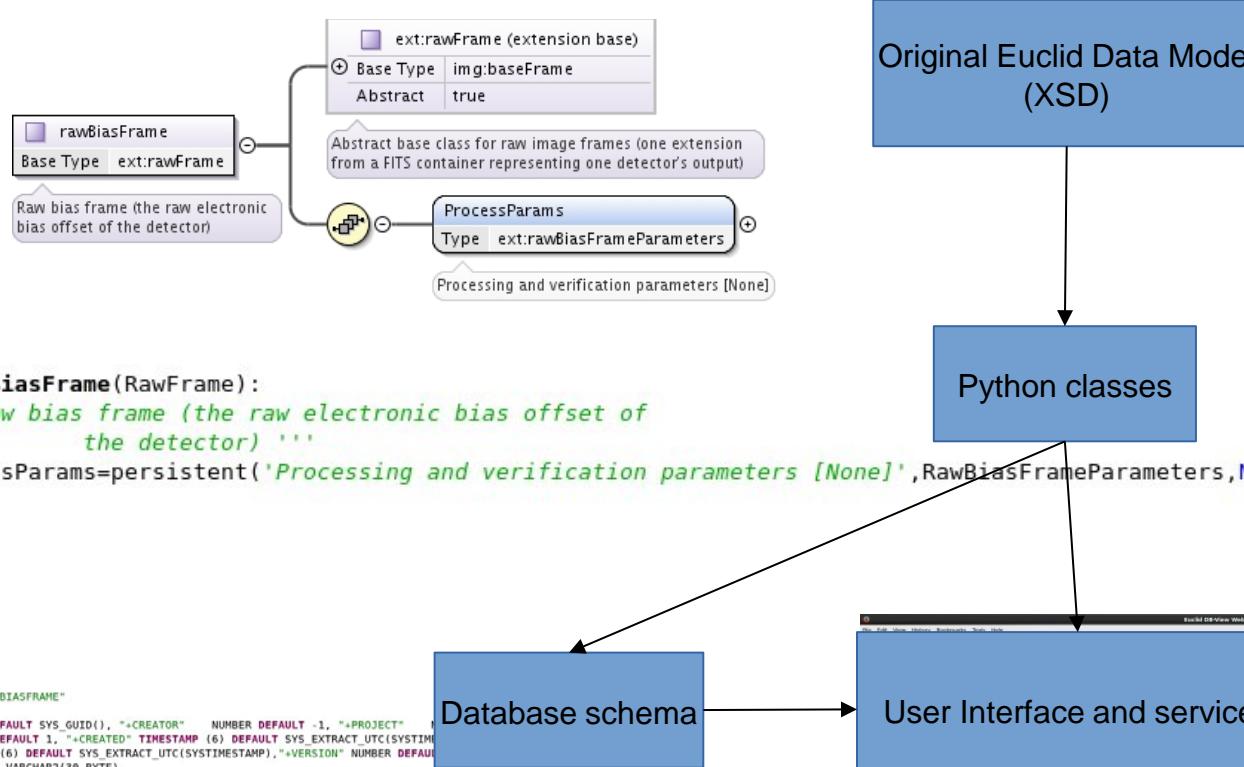
- Data model in XSD, objects in XML
- Common thesaurus (dictionary)
- **EAS is the only interface for data exchange in SGS, common data model is the only model for this interface**



- Quality flags
- Configuration parameters
- Common definitions and templates

- VIS, NIR, NISP, EXT, MER data products
- Metadata exchanged between pipelines
- Input for scientific data release

Euclid Common Data Model Implementation



- Detailed
 - ECDM objects implemented in full in the EAS
 - Provides lineage & traceability

```
class RawBiasFrame(RawFrame):
    """ Raw bias frame (the raw electronic bias offset of
        the detector) """
    ProcessParams=persistent('Processing and verification parameters [None]',RawBiasFrameParameters,None)
```

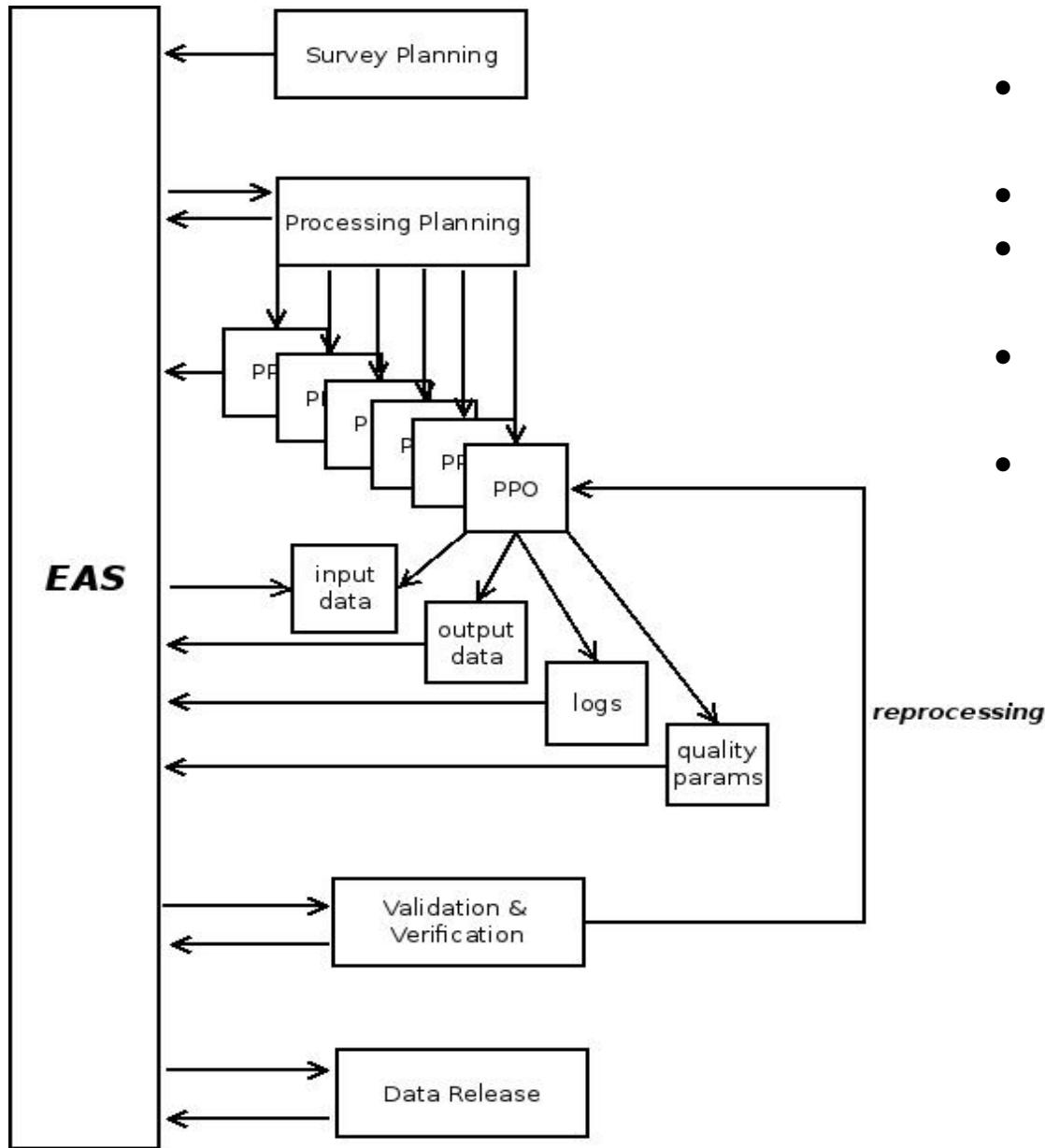
```

CREATE TABLE "AWOPER"."RAWBIASFRAME"
(
  "OBJECT_ID" RAW(16) DEFAULT SYS_GUID(), "+CREATOR" NUMBER DEFAULT -1, "+PROJECT" NUMBER,
  "+PRIVILEGES" NUMBER DEFAULT 1, "+CREATED" TIMESTAMP (6) DEFAULT SYS_EXTRACT_UTC(SYSTIMESTAMP),
  "+MODIFIED" TIMESTAMP (6) DEFAULT SYS_EXTRACT_UTC(SYSTIMESTAMP), "+VERSION" NUMBER DEFAULT 0,
  "+CHIP" RAW(16), "+CHIPS" VARCHAR2(30 BYTE),
  "+CREATIONDATE" TIMESTAMP (6) DEFAULT TO_TIMESTAMP('1990-01-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS'),
  "+DATE" TIMESTAMP (6) DEFAULT TO_TIMESTAMP('1990-01-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS'),
  "+DATEOBS" TIMESTAMP (6) DEFAULT TO_TIMESTAMP('1990-01-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS'),
  "+EXTOBJTIDS" VARCHAR2(30 BYTE), "+EXTOBJTIDS" NUMBER(*,0) DEFAULT 0,
  "+INSTMAT" RAW(16), "+INSTMAT" VARCHAR2(30 BYTE), "+INSTRUMENT" RAW(16), "+INSTRUMENTS" VARCHAR2(30 BYTE),
  "+ISVALID" NUMBER(*,0) DEFAULT 0, "+LST" BINARY_DOUBLE DEFAULT 0.0, "+MJDOBS" BINARY_DOUBLE DEFAULT 0.0,
  "+NAXIS1" NUMBER(*,0) DEFAULT 0, "+NAXIS2" NUMBER(*,0) DEFAULT 0,
  "+OBJECT" RAW(16), "+OBJECTS" VARCHAR2(30 BYTE), "+OBSSBLOCK" RAW(16), "+OBSSBLOCKS" VARCHAR2(30 BYTE),
  "+OBSERVER" RAW(16), "+OBSERVERS" VARCHAR2(30 BYTE), "+OVERSCANSTAT" RAW(16), "+OVERSCANSTATS" VARCHAR2(30 BYTE),
  "+OVERSCANSTAT" RAW(16), "+OVERSCANSTATS" VARCHAR2(30 BYTE),
  "+OVSK" NUMBER(*,0) DEFAULT 0, "+OVSKEXPRE" NUMBER(*,0) DEFAULT 0, "+OVSKXPST" NUMBER(*,0) DEFAULT 0,
  "+OVSY" NUMBER(*,0) DEFAULT 0, "+OVSYCPRE" NUMBER(*,0) DEFAULT 0, "+OVSYCPST" NUMBER(*,0) DEFAULT 0,
  "+PRESCANSTAT" RAW(16), "+PRESCANSTATS" VARCHAR2(30 BYTE),
  "+PRESCANSTAT" RAW(16), "+PRESCANSTATS" VARCHAR2(30 BYTE),
  "+PROCESSPARAMS" RAW(16), "+PROCESSPARAMS" VARCHAR2(30 BYTE),
  "+PRSKX" NUMBER(*,0) DEFAULT 0, "+PRSKPRE" NUMBER(*,0) DEFAULT 0, "+PRSKXPST" NUMBER(*,0) DEFAULT 0,
  "+PRSCY" NUMBER(*,0) DEFAULT 0, "+PRSCYPRE" NUMBER(*,0) DEFAULT 0, "+PRSCYPST" NUMBER(*,0) DEFAULT 0,
  "+QUALITYFLAGS" NUMBER(*,0) DEFAULT 0,
  "+RAFTIFS" RAW(16), "+RAFTIFS" VARCHAR2(30 BYTE), "+STORAGE" RAW(16), "+STORAGES" VARCHAR2(30 BYTE),
  "+TEMPLATE" RAW(16), "+TEMPLATES" VARCHAR2(30 BYTE), "+UTE" BINARY_DOUBLE DEFAULT 0.0
)

```

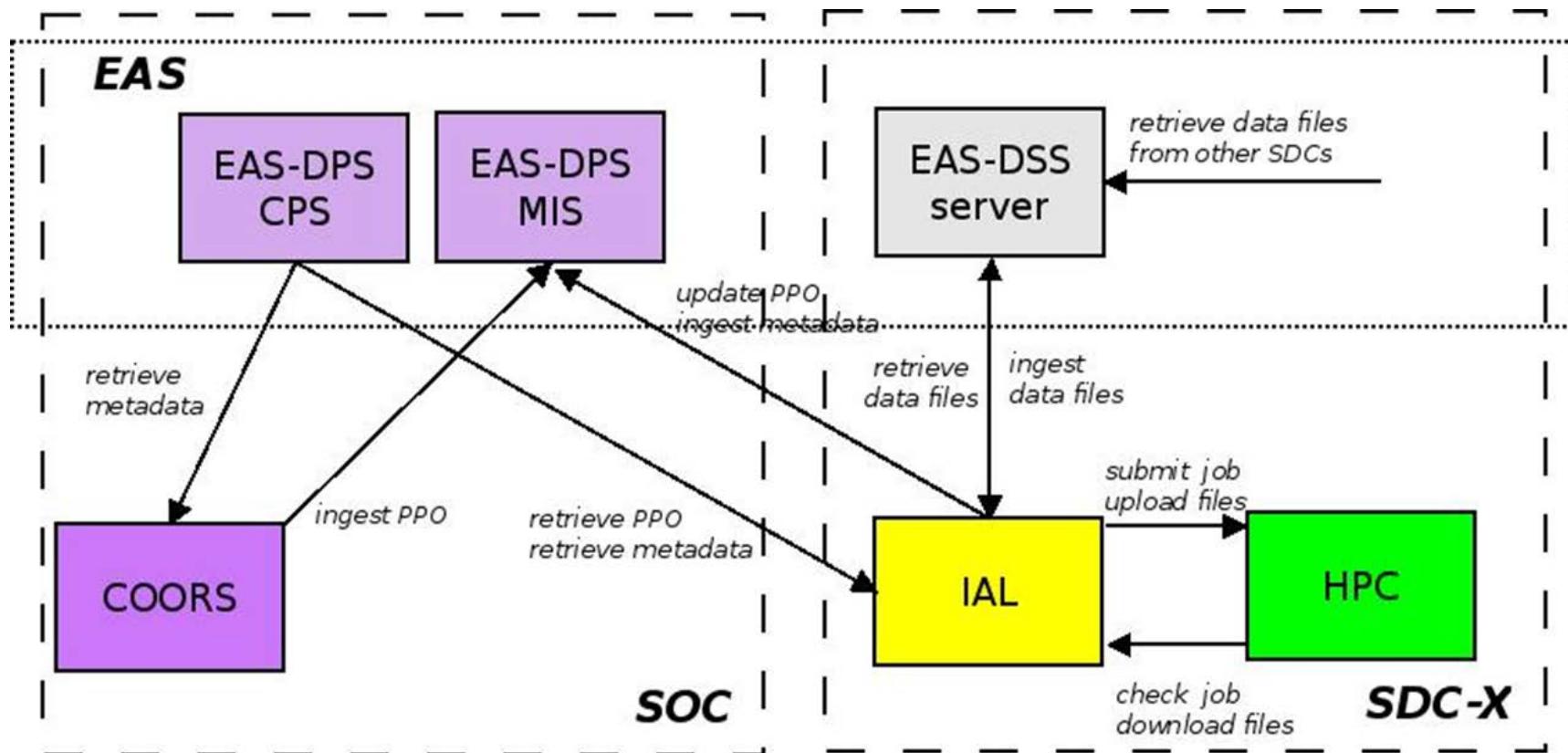
ROWNUM	project_id	+PRIVILEGES	object_id	CreationDate	Date	Datetime	Extension_1'
1	1	2	object_view	2011-08-12 07:18:58	2011-08-10 12:32:34	2011-08-10 12:32:33	5
2	1	2	object_view	2011-08-12 07:19:21	2011-08-10 12:34:21	2011-08-10 12:34:20	5
3	1	2	object_view	2011-08-12 07:19:21	2011-08-10 12:34:21	2011-08-10 12:34:20	5
4	1	2	object_view	2011-08-12 07:19:31	2011-08-10 12:35:50	2011-08-10 12:35:50	5
5	1	2	object_view	2011-08-12 07:32:17	2011-08-10 12:37:06	2011-08-10 12:37:07	5
6	1	2	object_view	2011-08-12 07:32:17	2011-08-10 12:37:06	2011-08-10 12:37:07	5
7	1	2	object_view	2011-08-12 07:29:42	2011-08-10 12:38:26	2011-08-10 12:38:25	5
8	1	2	object_view	2011-08-12 07:25:55	2011-08-10 12:37:46	2011-08-10 12:37:45	5
9	1	2	object_view	2011-08-12 07:05:51	2011-08-10 11:59:57	2011-08-10 11:59:57	5
10	1	2	object_view	2011-08-05 16:56:51	2011-06-05 15:53:48	2011-06-05 15:53:48	5
11	1	2	object_view	2011-08-05 16:56:51	2011-06-05 15:53:48	2011-06-05 15:53:48	5
12	1	2	object_view	2011-08-05 16:56:59	2011-06-05 15:49:17	2011-06-05 15:49:16	5
13	1	2	object_view	2011-08-05 16:56:59	2011-06-05 15:49:17	2011-06-05 15:49:16	5
14	1	2	object_view	2011-08-05 16:56:52	2011-06-05 15:52:31	2011-06-05 15:52:30	5
15	1	2	object_view	2011-08-05 16:56:55	2011-06-05 15:59:32	2011-06-05 15:59:32	5
16	1	2	object_view	2011-08-05 16:56:55	2011-06-05 15:59:32	2011-06-05 15:59:32	5
17	1	2	object_view	2011-08-05 16:56:57	2011-06-05 15:59:26	2011-06-05 15:59:25	5
18	1	2	object_view	2011-08-05 16:56:58	2011-06-05 15:53:09	2011-06-05 15:53:09	5
19	1	2	object_view	2011-08-05 16:56:57	2011-06-05 15:54:26	2011-06-05 15:54:25	5
20	1	2	object_view	2011-08-05 14:53:42	2011-06-05 14:07:53	2011-06-05 14:07:52	5
21	1	2	object_view	2011-08-05 14:53:42	2011-06-05 14:07:53	2011-06-05 14:07:52	5
22	1	2	object_view	2011-08-05 14:53:41	2011-06-05 14:08:33	2011-06-05 14:08:33	5
23	1	2	object_view	2012-01-07 19:47:17	2012-12-19 10:50:50	2012-12-19 10:50:49	19
24	1	2	object_view	2012-01-07 19:39:28	2012-11-19 10:50:12	2012-11-19 10:50:12	19
25	1	2	object_view	2012-01-07 20:29:44	2012-11-19 10:52:08	2012-11-19 10:52:08	19
26	1	2	object_view	2012-01-07 20:29:46	2012-11-19 10:51:20	2012-11-19 10:51:19	19
27	1	2	object_view	2012-01-07 20:29:46	2012-11-19 10:51:20	2012-11-19 10:51:19	19

Processing and EAS



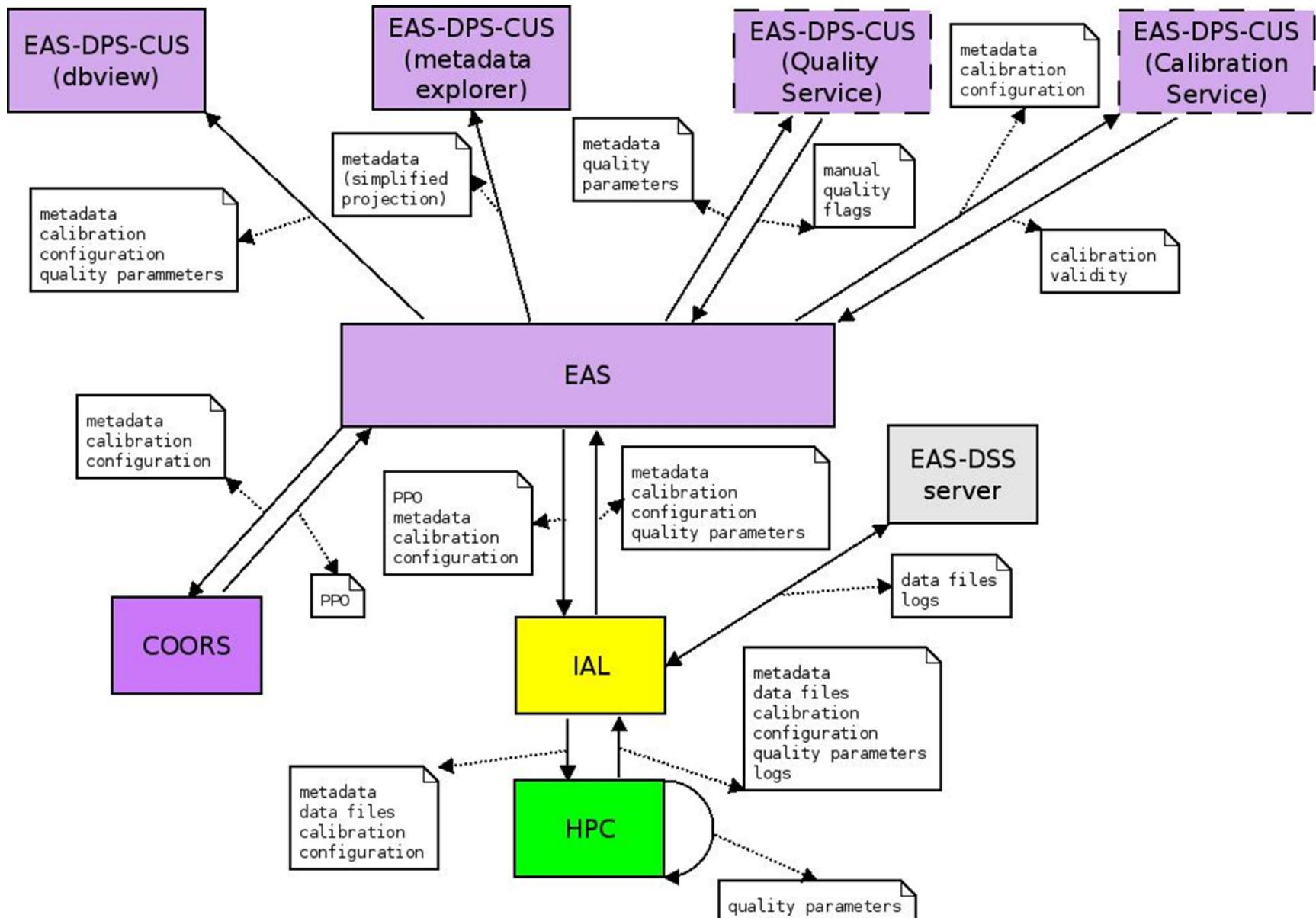
- Survey Plan → Processing Plans → PPOs
- PPO allocated to a SDC
- EAS keeps all information on each stage of processing
- EAS supports re-processing granularity at PPO level
- Back- and forward- lineage for PPOs and data products

Metadata/data flow during processing

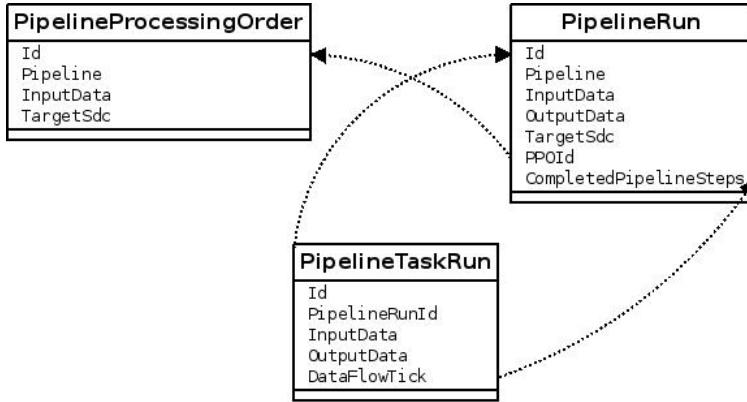


- SGS components interaction via EAS-DPS (services CPS and MIS)
- Data files exchange via EAS-DSS
- Processing triggering via publishing PPO from COORS to EAS-DPS (retrieved by IAL)

Metadata in user services



Dbview and processing information



- Info on pipeline run (actual running of pipeline)
- Reference to input and output data
- List of completed pipeline steps (tasks)

- Order to execute pipeline
- Contains pipeline name and path to executable
- Contains destination (SDC)
- Contains status of execution and timestamps for begin/end of execution

- Pipeline Task – minimum part of pipeline which can be run in isolation
- Input/output data for task
- Id of pipeline task in pipeline

- For each produced data product → Pipeline Run Id → PPO Id → Input data products
- For each input raw frames → PPO list → Pipeline Run list → Output data products
-

Dbview: Find PPOs

Euclid DB-View Web Service - Mozilla Firefox

(7) belikov@astro.rug.nl | Euclid DB-View Web Service | eas-dps-cus.test.euclid.astro.rug.nl/DbView?project=DSS&set_cookie=BON | DMSF - Euclid Archive | Euclid DB-View Web Service

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PipelineProcessingOrder

• Order by descending ascending

• 2nd Order By descending ascending

• Maximum number of rows: 500 descending ascending

• Show only data while project: yes no

• Show expanded attributes: yes no

• Show checkboxes: yes no

• Show Comments: yes no

• Export result as:

expand all attributes

Pipeline ProcessingOrder

- CommonDataModelVersion
- EdenVersion
- Id
- InstanceEAS
- PipelineDefinition
- PipelineDefinitionId
- PipelineDefinitionPath
- PipelineScriptPath
- Purpose
- Purpose
- SdcConfigurationId
- EndDate
- InputProducts
- PreviousProcessingState
- ProcessingState
 - ProcessingOrderState:
- StartDate
- TargetDir

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(7) belikov@astro.rug.nl | Euclid DB-View V | DMSF - Euclid | Euclid DB-View | Euclid DB-View | Euclid DB-View | +

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Show uplinks of this PipelineProcessingOrder
show hidden attributes
expand All

Query results for table PipelineProcessingOrder

Shown: 176 rows out of 176 entries, from only project DSS

ROWNUM	project_id	+PRIVILEGES	object_id	CommonDataModelVersion	EdenVersion
1	10	2	object:view	1.6.7	1.2
2	10	2	object:view	1.6.7	1.2
3	10	2	object:view	1.6.7	1.2
4	10	2	object:view	1.6.7	1.2
5	10	2	object:view	1.6.7	1.2
6	10	2	object:view	1.6.7	1.2
7	10	2	object:view	1.6.7	1.2
8	10	2	object:view	1.6.7	1.2
9	10	2	object:view	1.6.7	1.2
10	10	2	object:view	1.6.7	1.2
11	10	2	object:view	1.6.7	1.2
12	10	2	object:view	1.6.7	1.2
13	10	2	object:view	1.6.7	1.2
14	10	2	object:view	1.6.7	1.2
15	10	2	object:view	1.6.7	1.2
16	10	2	object:view	1.6.7	1.2
17	10	2	object:view	1.6.7	1.2
18	10	2	object:view	1.6.7	1.2
19	10	2	object:view	1.6.7	1.2
20	10	2	object:view	1.6.7	1.2
21	10	2	object:view	1.6.7	1.2
22	10	2	object:view	1.6.7	1.2
23	10	2	object:view	1.6.7	1.2
24	10	2	object:view	1.6.7	1.2
25	10	2	object:view	1.6.7	1.2
26	10	2	object:view	1.6.7	1.2
27	10	2	object:view	1.6.7	1.2
28	10	2	object:view	1.6.7	1.2
29	10	2	object:view	1.6.7	1.2
30	10	2	object:view	1.6.7	1.2
31	10	2	object:view	1.6.7	1.2
32	10	2	object:view	1.6.7	1.2
33	10	2	object:view	1.6.7	1.2
34	10	2	object:view	1.6.7	1.2
35	10	2	object:view	1.6.7	1.2
36	10	2	object:view	1.6.7	1.2
37	10	2	object:view	1.6.7	1.2
38	10	2	object:view	1.6.7	1.2
39	10	2	object:view	1.6.7	1.2
40	10	2	object:view	1.6.7	1.2
41	10	2	object:view	1.6.7	1.2
42	10	2	object:view	1.6.7	1.2
43	10	2	object:view	1.6.7	1.2
44	10	2	object:view	1.6.7	1.2
45	10	2	object:view	1.6.7	1.2
46	10	2	object:view	1.6.7	1.2
47	10	2	object:view	1.6.7	1.2
48	10	2	object:view	1.6.7	1.2
49	10	2	object:view	1.6.7	1.2
50	10	2	object:view	1.6.7	1.2
51	10	2	object:view	1.6.7	1.2
52	10	2	object:view	1.6.7	1.2
53	10	2	object:view	1.6.7	1.2
54	10	2	object:view	1.6.7	1.2
55	10	2	object:view	1.6.7	1.2
56	10	2	object:view	1.6.7	1.2
57	10	2	object:view	1.6.7	1.2
58	10	2	object:view	1.6.7	1.2
59	10	2	object:view	1.6.7	1.2

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Dbview: Find Pipeline Run for PPO

Pipeline tasks

The screenshot illustrates the Euclid DB-View Web Service interface. On the left, a search form for a PipelineRun is shown with various filters and settings. On the right, the results for a specific PipelineRun are displayed, including its ID and detailed configuration parameters.

Left Window (Search Form):

- Order by: <none> (radio button selected)
- 2nd Order by: <none> (radio button selected)
- Maximum number of rows: 10
- Show only data within project: yes (radio button selected)
- Show expanded attributes: yes (radio button selected)
- Show checkboxes: yes (radio button selected)
- Show Comments: yes (radio button selected)
- Export result as: HTML (selected)
- Submit button
- expand all attributes link
- PipelineRun section with fields:
 - CompletedPipelineSteps []
 - EdenVersion
 - Id: 57D3DB826E013D2BE053B316A9C3D006
 - Message
 - PipelineRootPath
 - PipelineScriptPath
 - ProcessingOrderId: = EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUN0-0
 - SdcConfigurationId
 - Workdir
 - EndDate
 - Input
 - Output
 - PreviousProcessingState
 - ProcessingState
 - StartDate
- Submit button

Right Window (PipelineRun Details):

PipelineRun(57D3DB826E013D2BE053B316A9C3D006)

- CompletedPipelineSteps: [(2, 1), '1', '(2, 2, 3, 1)', '(2, 2, 3, 2)', '(2, 2, 4, 1)', '(2, 2, 4, 2)', '(2, 2, 3, 3)', '(2, 2, 2, 1)', '(2, 2, 4, 3)', '(2, 2, 2, 2)', '(2, 2, 2, 3)', '(2, 2, 1, 1)', '(2, 2, 1, 2)', '(2, 3)', '(2, 2, 1, 3)', '(8, 3)', '3', '(6, 1)', '(8, 1)', '(6, 2, 2, 1)', '(6, 2, 1, 1)', '(6, 2, 3, 1)', '(6, 2, 4, 1)', '4', '5', '7', '(6, 2, 2, 2)', '(6, 2, 1, 2)', '(6, 2, 4, 2)', '(6, 2, 3, 2)', '(6, 3)', '9', '10']
- EdenVersion: 1.2
- Id: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUN0-0
- Message: None
- object_id: 57D3DB826E013D2BE053B316A9C3D006
- PipelineRootPath: /cvmfs/euclid-dev.in2p3.fr/CentOS7/EDEN-1.2/opt/euclid/Pipeline/0.2.0
- PipelineScriptPath: MER/PF_MER.py
- ProcessingOrderId: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33
- SdcConfigurationId: SdcConfig-SDC-DE-170807-133056-712
- Workdir: ppos/EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33/EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUN0-0
- EndDate (link)
- Input (link)
- Output (link)
- PreviousProcessingState (link)
- ProcessingState (link)
- StartDate (link)

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Dbview: Find tasks for Pipeline Run

Euclid DB-View Web Service – Mozilla Firefox

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(7) belikov@astro.rug.nl/DbView?mode=table_qn&class_=str

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PipelineTaskRun

Order by: none descending ascending

2nd Order by: none descending ascending

Max/min number of rows: 10

Show only data with project: yes no

Show expanded attributes: yes no

Show checkboxes: yes no

Show Comments: yes no

Export result as: HTML

Submit

expand all attributes

Manual SQL logic

```
WITH SO10 AS (
    SELECT * FROM PipelineTaskRun
    WHERE project_id = "EUC_MER_PPO"
)
SELECT ROWNUM, project_id, "PRIVILEGES", object_id, DataflowPath, DataflowTick, ExecutableName, id, OutputPath, PipelineRunId
FROM SO10
WHERE ROWNUM <= 10 AND SO10.project_id = "EUC_MER_PPO"
```

Export as: HTML

Query results for table PipelineTaskRun

Shown: 10 rows out of 33 entries, from only project 'DSS'

ROWNUM	project_id	"PRIVILEGES"	object_id	DataflowPath	DataflowTick	ExecutableName	id	OutputPath	PipelineRunId
1	EUC_MER_PPO	object_view			12,3	E-Run MER_Pipeline MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T2_3	bandsOperations_reduce	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
2	EUC_MER_PPO	object_view			4	E-Run MER_Pipeline MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4	MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
3	EUC_MER_PPO	object_view			5	E-Run MER_Pipeline MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5	MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4
4	EUC_MER_PPO	object_view			6	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6	MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5
5	EUC_MER_PPO	object_view			16,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_1	kernelPhotometry_map	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
6	EUC_MER_PPO	object_view			16,2,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1	kernelPhotometry_iterations_1_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
7	EUC_MER_PPO	object_view			16,2,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_2	kernelPhotometry_iterations_1_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
8	EUC_MER_PPO	object_view			16,2,3	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3	kernelPhotometry_iterations_2_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
9	EUC_MER_PPO	object_view			16,2,3,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_1	kernelPhotometry_iterations_3_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
10	EUC_MER_PPO	object_view			16,2,3,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_2	kernelPhotometry_iterations_3_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6

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Query results for table PipelineTaskRun

Shown: 10 rows out of 33 entries, from only project 'DSS'

ROWNUM	project_id	"PRIVILEGES"	object_id	DataflowPath	DataflowTick	ExecutableName	id	OutputPath	PipelineRunId
1	EUC_MER_PPO	object_view			12,3	E-Run MER_Pipeline MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T2_3	bandsOperations_reduce	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
2	EUC_MER_PPO	object_view			4	E-Run MER_Pipeline MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4	MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
3	EUC_MER_PPO	object_view			5	E-Run MER_Pipeline MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5	MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4
4	EUC_MER_PPO	object_view			6	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6	MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5
5	EUC_MER_PPO	object_view			16,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_1	kernelPhotometry_map	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
6	EUC_MER_PPO	object_view			16,2,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1	kernelPhotometry_iterations_1_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
7	EUC_MER_PPO	object_view			16,2,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_2	kernelPhotometry_iterations_1_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
8	EUC_MER_PPO	object_view			16,2,3	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3	kernelPhotometry_iterations_2_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
9	EUC_MER_PPO	object_view			16,2,3,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_1	kernelPhotometry_iterations_3_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
10	EUC_MER_PPO	object_view			16,2,3,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_2	kernelPhotometry_iterations_3_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6

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Show table of this PipelineTaskRun

show tables structure

expand all

PipelineTaskRun(57D3DBC9B21A3D41E05)

- Description: kernelPhotometryIterations_1_MER_Homogenize
- Constraints: (6, 2, 1, 1)
- ExecutableName: E-Run MER_Pipeline MER_Homogenize
- id: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1_1
- object_id: 57D3DBC9B21A3D41E05#5B16A9C31D#7
- OutputPath: kernelPhotometryIterations_1_MER_Homogenize
- PipelineRunId: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0
- ProcessId: 20025
- ProcessStage: None
- ProcessState: N/A
- Input (0)
- LogFile (0)
- TaskLog (1)

 - DataFileName: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1_1_log.txt
 - object_id: 57D3DBC9B21A3D41E05#5B16A9C390#0
 - Path (0)

- Pof (6)

 - FilePath: kernelPhotometryIterations_1_MER_Homogenize/matchedMosaic.xml
 - id: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1_1_out_matchedMosaic
 - object_id: 57D3DBC9B21A3D41E05#5B16A9C31D#7
 - PofPath: EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1_1
 - PofName: matchedMosaic
 - PofType: None
 - PofType: simpleFile
 - PofType: none

- ProcessingData (0)

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Query results for table PipelineTaskRun

Shown: 10 rows out of 33 entries, from only project 'DSS'

ROWNUM	project_id	"PRIVILEGES"	object_id	DataflowPath	DataflowTick	ExecutableName	id	OutputPath	PipelineRunId
1	EUC_MER_PPO	object_view			12,3	E-Run MER_Pipeline MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T2_3	bandsOperations_reduce	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
2	EUC_MER_PPO	object_view			4	E-Run MER_Pipeline MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4	MER_MosaicSelection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_3
3	EUC_MER_PPO	object_view			5	E-Run MER_Pipeline MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5	MER_Detection	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_4
4	EUC_MER_PPO	object_view			6	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6	MER_Deblending	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_5
5	EUC_MER_PPO	object_view			16,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_1	kernelPhotometry_map	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
6	EUC_MER_PPO	object_view			16,2,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_1	kernelPhotometryIterations_1_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
7	EUC_MER_PPO	object_view			16,2,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_2	kernelPhotometryIterations_1_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
8	EUC_MER_PPO	object_view			16,2,3	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3	kernelPhotometryIterations_2_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
9	EUC_MER_PPO	object_view			16,2,3,1	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_1	kernelPhotometryIterations_3_MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6
10	EUC_MER_PPO	object_view			16,2,3,2	E-Run MER_Pipeline MER_Photo	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_T6_2_3_2	kernelPhotometryIterations_3_MER_Homogenize	EUC_MER_PPO-TILE20_SC3-PLAN-1-PPO-33-SDC-DE-RUNO-0_6

Pipeline Run Id

Task log

Quality View

Quality of ReducedScienceFrame: Sci-GSIKKEMA-OMEGACAM-----OCAM_i_SDSS-ESO_CCD_#71-Red---Sci-55853.5464143-6b404f3a205bf92af4c99aaaf422a3c046679442e.fits - Mozilla Firefox

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Quality of ReducedSci... +

quality.astro-wise.org/QualityWISE?object_str=ReducedScienceFrame&object_id=ae82a1602e495b19e0407d81e60e6260&project=OMEG...

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Quality of REDUCEDSCIENCEFRAME:
Sci-GSIKKEMA-OMEGACAM-----OCAM_i_SDSS-ESO_CCD_#71-Red---Sci-55853.5464143-6b404f3a205bf92af4c99aaaf422a3c046679442e.fits

AstroWISE DBView CalTS Process

DName: awanonymous project: OMEGACAM@VST

is_valid = 1: valid no previous comments Enter comment here. Submit

Processing Details

creation_date	2011-10-19 13:06:55
is_valid	1
quality_flags	0
Privileges	3

Image Statistics Details

mean	+1.828e+02
median	+1.827e+02
stdev	+9.530e+00
min	+1.352e+02
max	+2.307e+02

Local Astrometry Details
(derived from a local solution)

creation_date	2011-10-19 16:38:51
is_valid	1
quality_flags	0
RMS	0.531
SEEING	0.940
NREF	121
SIG_DRA	0.000
SIG_DDEC	0.000
MEAN_DRA	0.000
MEAN_DDEC	0.000

Photometry Details

creation_date	2011-10-24 14:43:46
is_valid	1
quality_flags	0

Observational Details

DATE_OBS	2011-08-06 07:10:19	OBSERVER	UNKNOWN
MJD_OBS	55779.2988423	EXPTIME	115.0
OBJECT	SA113	AIRMASTR	1.23
R.A.	21:43:22.8094	AIRMEMD	1.235
Dec.	053:12.9840	Filter	OCAM_i_SDSS
		mag_id	SloanI

Chip ESO_CCD_#71 of instrument OMEGACAM

ReducedScienceFrame
2048 X 4100 pixel
7.29 X 14.58 arcmin

WeightFrame
2048 X 4100 pixel
7.29 X 14.58 arcmin

<http://ds.astro.rug.astro-wise.org:8000/QC-GS...33f65d63a6877fb6c8b8720c86c8795e62b481a6.jpg>

Calibration Service

- Astro-WISE example
 - Change any calibration frame/parameter
 - Set default

EAS Science Analysis System

- Third component of the EAS
- Data and metadata for public release is copied to the EAS Science Analysis System (SAS) by the Metadata Transfer Service (SAS-MTS)
- EAS Science Analysis System contains a reduced set of metadata
 - Optimised for Science Analysis
 - Uses the Euclid Science Exploitation Data Model
- See poster in hall on the EAS Science Analysis System for more information