

# Status of Validation of DAL Services

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# Process

Uses existing validators to test all VO services on a regular (monthly basis).

As validators are added, additional service types will be included.

SSA attempted, but issues with validators caused us to stop using them.

Currently all cone search, SIA and registry OAI interfaces tested.

Results available to all:

**<http://heasarc.gsfc.nasa.gov/vo/validation>**

# Summary

Total Number of Services	6633	
Total Number of Active Services	6591	
In Validation Queue	0	
Validated	6583	
Deleted	42	
Status	Total	Percent
Passed	3304	50.1
Failed	3217	48.8
Aborted	62	0.94
In Validation Queue	0	0
Skipped	8	0.12

[View Results by Center](#)

[View Results by Type](#)

Query by identifier or string. Any identifiers containing this string will be matched.

Last Validation Occured:	2010/11/16 06:44:51 ET
Next Scheduled Validation:	2010/11/17 06:50:00 ET
Services Tested Daily:	300
<a href="#">See All Services and Test Runs</a>	

# Validation Results by Type

Type	Total Services		passed(%)		failed(%)		aborted(%)		deleted
	(Apr.)	(now)	(Apr.)	(now)	(Apr.)	(now)	(Apr.)	(now)	
Cone	6335	6325	51	51	49	48	0	1	25
SIA	187	187	37	39	61	57	0	0	13
SSA	57	76	*	0	*	100	*	0	4
Registry(Harvest)	15	15	*	33	*	33	*	33	0
Registry(Search)	8	8	*	*	*	*	*	*	*

# Results by Institution

	Count of Services			Pass %			Fail %			Deleted
	<i>Nov-09</i>	<i>Apr-10</i>	<i>Nov-10</i>	<i>Nov-09</i>	<i>Apr-10</i>	<i>Nov-10</i>	<i>Nov-09</i>	<i>Apr-10</i>	<i>Nov-10</i>	
<b>Astronet</b>	21	21	21	0	0	0	100	100	100	0
<b>CADC</b>	11	11	4	64	0	0	36	100	100	7
<b>CDS</b>	5213	5226	5226	47	54	54	53	46	46	0
<b>GAVO DC</b>	7		13	29		92	71		8	1
<b>HEASARC</b>	522	536	542	74	79	84	21	21	16	4
<b>IRSA</b>	18		18	0		0	100		100	0
<b>LEDAS</b>	482		483	0		0	100		100	0
<b>MAST</b>	36		39	58		49	42		44	0
<b>NRAO</b>	10		10	0		0	100		100	0
<b>ROE</b>	26		29	23		31	77		66	20
<b>SDSS JHU</b>	26		26	0		0	100		100	0
<b>STScI</b>	31		38	0		0	100		100	0
<b>SVO Cab</b>			25			0			100	0
<b>XCATDB</b>	5		12	0		0	100		100	0

# Statistics

- 6633 total services
- 3319 services passing validation (50.1%)
- 3235 services not passing validation (48.9%)
- 52 Services aborted for unknown reasons.
- 8 services have been skipped
- Some Registry OAI services have not been tested due to HEASARC firewall issues
- 300 Services are tested per day

# Significant Changes and Issues

- Some Registry OAI interfaces have been tested
- SSA service testing has been suspended after correctness of validators questioned
- Checks for services registered with malformed URL errors including URLs that do not end with '?' or '&' added
- Current validators may not handle VOTable v1.2
  - CADC services incorrectly fail
- Manual consistency tests fail between columns advertised in metadata queries and returned in data queries

# CDS

Current error types for center: CDS		
Errorname	Error Description	Frequency
2.2.1a	The TABLE must contain exactly one FIELD with ucd='ID_MAIN'.	2117
3a	Error message must appear in an INFO or PARAM with name='Error' in required location.	1523
comm	Apparent communication error produced an exception inside the validator:	1508
error parsing page	cannot connect to web page or response could not be parsed	9
2.1b	The RESOURCE element must contain exactly one TABLE.	8
2.1a	VOTable must contain only one RESOURCE.	7
mal-formed URL	This service url is mal-formed. It is missing either a '?' or '&' at the end	6
2.2.1d	Values in the ID_MAIN column must be unique.	4

- ID\_MAIN issues.

E.g. [hJ/ApJS/165/1](#) contains:

```
<FIELD name="SDSS" ucd="ID_ALTERNATIVE" datatype="char"
arraysize="18*"><!-- ucd="meta.id;meta.main" -->
```

- Error messages must be inside INFO element
- ID\_MAIN missing. Some tables have 2 ID\_MAIN UCDs.
- There are several services with malformed URLs in the registry.
  - E.g. [III/235A](#) is missing a '&' at the end.



# HEASARC

Current error types for center: HEASARC		
Errorname	Error Description	Frequency
2.2.1a	The TABLE must contain exactly one FIELD with ucd='ID_MAIN'.	80
2.2.1d	Values in the ID_MAIN column must be unique.	45
2.2.2a	The TABLE must contain exactly one FIELD with ucd='POS_EQ_RA_MAIN'.	16
2.2.3a	The TABLE must contain exactly one FIELD with ucd='POS_EQ_DEC_MAIN'.	16
cannot find image	cannot find an ImageURL	3
2.2.1c	The ID_MAIN column must have a string-appropriate arraysize (recommend '*').	2
2.2.1b	The ID_MAIN column must have datatype='char'.	2
error parsing page	cannot connect to web page or response could not be parsed	1

- Table must contain exactly one field with ID\_MAIN
- Some tables do not contain an ID\_MAIN column
  - E.g. Swifttdrss
- POS RA and DEC missing from some tables (not in default columns returned)

# Arecibo

Current error types for center: Arecibo		
Errorname	Error Description	Frequency
2.2.1c	The ID_MAIN column must have a string-appropriate arraysize (recommend '*').	4

- The ID\_Main column does not have an arraysize attribute.  
<FIELD ID="AGCUGC" ucd="ID\_MAIN" datatype="char">

# Results by Center

Center	Total			Passed(%)			Failed %			Deleted
	(Nov/Dec.)	(Apr.)	(now)	(Nov/Dec.)	(Apr.)	(now)	(Nov/Dec.)	(Apr.)	(now)	
Astronet	21	21	21	0	0	0	100	100	100	0
CADC	11	11	4	64	0	0	36	100	100	7
CDS	5213	5226	5226	47	54	54	53	46	46	0
GAVO DC	7	*	13	29	*	92	71	*	8	1
HEASARC	522	536	542	74	79	84	21	21	16	4
IRSA	18	*	18	0	*	0	100	*	100	0
LEDAS	482	*	483	0	*	0	100	*	100	0
MAST	36	*	39	58	*	49	42	*	44	0
NRAO	10	*	10	0	*	0	100	*	100	0
ROE	26	*	29	23	*	31	77	*	66	20
SDSS JHU	26	*	26	0	*	0	100	*	100	0
STScI	31	*	38	0	*	0	100	*	100	0
SVO Cab	*	*	25	*	*	0	*	*	100	0
XCATDB	5	*	12	0	*	0	100	*	100	2