

# Euro-VO Registry Status and Plans

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ESA ESAC

I/OA interoperability meeting, Registry WG session, 19/10/2022



HOME

### WELCOME TO THE EURO-VO FULL HARVESTABLE VO RESOURCE REGISTRY

The new Euro-VO Registry offers you the following main functionalities:

- **For astronomers and end users:** Search the VO resources through the Simple Search Panel, the Advanced Search or through the expert ADQL Search Panel.
- **For data publishers:** Host your resources with EuroVO, create and update your own VO Resources via a password-protected interface, check their compliance with the associated IVOA standards.
- **For VO Applications developers and for other IVOA Registries:** Harvest the registry, retrieve individual resources, or search the registry through its programmatic OAI-PMH, RI1 and RegTAP interfaces.



### TOP FEATURES



#### SEARCH

Search through all data.



#### ADQL SEARCH

Search with ADQL query through all data.



#### STANDALONE VALIDATION

This page is used for validating standalone.



#### INFO

Information related to EuroVO Registry Services.



#### CONTACT

For questions, suggestions or problem reports, contact our [EuroVO Registry Support](#).

# VOResources Publishing for European (and others)



## Euro-VO Registry



MY RESOURCES

Results (45)

	Short Name	IVOID	Status	Title	Resource Type	Capabilities	Compliance	#total versions	Created	
		ivo://esavo/gaia/conesearch	is deleted					3	2018-09-26 15:24:57	
		ivo://esavo/hst/ssap	is deleted					2	2016-02-29 16:56:03	
		ivo://esavo/isa/siap	is deleted					1	2016-02-05 15:48:38	
		ivo://esavo/iso/siap	is deleted					10	2020-11-28 03:25:11	
		ivo://esavo/iso/ssap	is deleted					11	2020-11-28 03:25:25	
		ivo://esavo/nist/siap	is deleted					12	2019-09-20 10:14:22	
		ivo://esavo/xsa/cs/XMMSL2	is deleted					2	2018-10-30 20:02:19	
	3XMM-DR7-stacked	ivo://esavo/xsa/cs/3xmmdr7s	active	The 3XMM-DR7s Stacked Catalogue at ESA	vs:CatalogService	cs:conesearch	Partially Compliant(C--)	2	2019-05-16 09:37:10	
	3XMM-DR8	ivo://esavo/xsa/cs/3xmm	active	XMM-DR8 Catalogue at ESA	vs:CatalogService	cs:conesearch	Partially Compliant(C--)	9	2019-05-16 09:36:20	
	EHST/HLA/SIAP	ivo://esavo/hla/siap	active	European HST Archive SIAP	vs:CatalogService	ssa:simpleimageacces	Compliant(B)	6	2019-05-16 09:30:38	
	EHST/HLA/SSA	ivo://esavo/hla/ssap	inactive	European HST Archive SSA	vs:CatalogService	ssa:simpleimageacces	Partially Compliant(C--)	4	2019-05-16 09:30:54	
	EHST/HST/SIAP	ivo://esavo/hst/siap	active	European HST Archive SIAP	vs:CatalogService	ssa:simpleimageacces	Compliant(B)	5	2020-01-30 12:28:01	
	EHST/HST/SSAP	ivo://esavo/hst/ssap	active	European HST Archive SSAP	vs:CatalogService	ssa:simpleimageacces	Compliant(A)	7	2020-01-30 12:27:04	
	ESA	ivo://esavo/esavo	active	ESA Registry	vs:CatalogService	cs:conesearch	Compliant(A)	4	2019-05-16 09:28:46	
	ESA-ESDC	ivo://esavo	active	ESA-ESDC Registry	vs:CatalogService	cs:conesearch	Compliant(A)	4	2019-05-16 09:27:13	
	ESASky	ivo://esavo/esasky/tap	active	ESA SkyTap Registry	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C--)	8	2021-04-27 10:02:04	
	ESASkyLegacy	ivo://esavo/esaskylegacy/tap	active	ESA SkyTap Legacy Registry	vs:CatalogService	tr:tableaccess1.1	Compliant(B)	5	2021-04-27 10:02:14	
	ESAVO TAP	ivo://esavo/registry/tap	active	ESAVO TAP Registry	vs:CatalogService	tr:tableaccess1.1	Compliant(B)	7	2019-06-04 10:51:44	
	ESDC ESASky HIPS	ivo://esavo/esasky/hips	active	ESA SkyTap HIPS Registry	vs:CatalogService	tr:tableaccess1.1	not applicable	2	2019-05-16 09:28:11	
	EURO-VO Registry	ivo://esavo/registry	active	EURO-VO Registry	vs:CatalogService	cs:conesearch	Harvest, Harvest, Search, Search	not applicable, not applicable, Not Compliant(E), Not Compliant(E)	46	2019-09-19 15:00:46
	GAIA	ivo://esavo/gaia/tap	active	GAIA TAP Registry	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C)	9	2020-12-02 17:39:30	
	GAIA DR1	ivo://esavo/gaia/csdr1	active	GAIA DR1 Catalogue	vs:CatalogService	cs:conesearch	Compliant(A++)	11	2020-12-02 17:39:42	
	GAIA DR1 TGAS	ivo://esavo/gaia/csdr1/tgas	active	GAIA DR1 TGAS Catalogue	vs:CatalogService	cs:conesearch	Compliant(A++)	11	2020-12-02 17:39:59	
	GAIA DR2	ivo://esavo/gaia/csdr2	active	GAIA DR2 Catalogue	vs:CatalogService	cs:conesearch	Compliant(A++)	13	2020-12-02 17:40:12	
	GAIA DR3	ivo://esavo/gaia/csdr3	active	GAIA DR3 at ESA	vs:CatalogService	cs:conesearch	Compliant(A++)	1	2022-05-19 12:43:40	
	GAIA EDR3	ivo://esavo/gaia/csedr3	active	GAIA EDR3 at ESA	vs:CatalogService	cs:conesearch	Compliant(A++)	1	2020-11-30 11:44:14	
	Herschel	ivo://esavo/hsa/tap	active	Herschel TAP Registry	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C--)	4	2019-05-16 09:31:43	
	Herschel SIAP	ivo://esavo/hsa/siap	active	Herschel ESA Archive SIAP	vs:CatalogService	ssa:simpleimageacces	Compliant(B)	6	2019-05-16 09:31:13	
	Herschel SSAP	ivo://esavo/hsa/ssap	active	Herschel ESA Archive SSAP	vs:CatalogService	ssa:simpleimageacces	Partially Compliant(C--)	4	2019-05-16 09:31:29	
	Hubble HCV ESA	ivo://esavo/hst/hcv	active	Hubble Catalog of Variables ESA	vs:CatalogService	cs:conesearch	Compliant(A++)	5	2019-10-07 11:43:44	
	Hubble HSC ESA	ivo://esavo/hst/hsc	active	Hubble Source Catalog ESA	vs:CatalogService	cs:conesearch	Compliant(A++)	1	2019-10-07 11:43:24	
	Hubble/TAP	ivo://esavo/ehst/tap	active	European HST Archive TAP	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C)	5	2019-05-16 09:27:26	
	iasdslap	ivo://esavo/iasd/siap	active	IASD ESA Slap	vs:CatalogService	slap:SimpleLineAccess	not applicable	19	2019-05-16 09:32:28	
	ISLA	ivo://esavo/isa/obsloctap	active	Integral Science Archive TAP	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C--)	16	2021-01-18 19:51:11	
	ISO SIAP	ivo://esavo/new-iso/siap	active	Infrared Space Observatory (ISO) ESA SIAP	vs:CatalogService	ssa:simpleimageacces	Compliant(B)	4	2020-11-18 14:35:50	
	ISO SSAP	ivo://esavo/new-iso/ssap	active	Infrared Space Observatory (ISO) SSAP	vs:CatalogService	ssa:simpleimageacces	Compliant(A)	4	2020-11-28 03:24:38	
	ISO TAP	ivo://esavo/iso/tap	active	Infrared Space Observatory (ISO) TAP	vs:CatalogService	tr:tableaccess1.1	Partially Compliant(C--)	4	2020-11-11 09:57:41	

Create minimal Table Access 1.0 Resource  
(you may later use the forms interface to add or edit elements...)

Status\*: active

Ivoid\*: ivo://esavo/ |

Title\*:  
Publisher\*:  
Contact Name\*:  
Subject\*:  
Description\*:  
Reference URL\*:  
Language Name\*:  
Language Version Name\*:  
Output Format Mime\*:  
Access URL\*:  
Use\*: full

OK Cancel

IVOA Full Searchable Registry

VOResources publishing  
Support to publishers

Harvesting other publishing  
registries



# Search functionalities



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## Euro-VO Registry

SEARCH

SIMPLE SEARCH

Managed Authority  Select

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ADVANCED SEARCH

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## Euro-VO Registry

ADQL Search

[10]Find all SSAP services that provide theoretical spectra.

```

SELECT access_url
FROM rr.res_detail
NATURAL JOIN rr.capability
NATURAL JOIN rr.interface
WHERE detail_xpath='/capability/dataSource'
AND intf_type='vs:paramhttp'
AND standard_id='ivo://ivoa.net/std/ssa'
AND detail_value='theory'
    
```

Clear Ctrl+Space for query autocompletion

Not really working  
Various bugs fixing needed

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## Euro-VO Registry

RESULTS #1 x

Search Results (131)

Short Name	Publisher	Title	Capabilities	Compliance	IVOID	Resource Type	Description
SSA	WFAU, Institute for Astronomy, University of Edinburgh	SuperCOSMOS Science Archive (SSA)	undefined, undefined, tritableaccess1.0	not applicable, not applicable, not applicable	ivo://wfau.roe.ac.uk/ssa-tap	vs:catalogservice	The SuperCOSMOS data held in the SSA primarily originate from scans of Palomar and UK Schmidt blue, red and near-IR southern <a href="#">(more)</a>
IAPS_TAP	IAPS-INAF	IAPS TAP SERVICE	tritableaccess1.0	not applicable	ivo://ia2.inaf.it/iaps/tap	vs:catalogservice	The IAPS TAP SERVICES' TAP end point, The Table Access Protocol (TAP) lets you execute queries against our database tables, <a href="#">(more)</a>
	Leibniz Institute for Astrophysics Potsdam (AIP)	APPLAUSE - Archives of Photographic Plates for Astronomical USE TAP Service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://www.plate-archive.org/tap	vs:catalogresource	The TAP Service registry for www.plate-archive.org.
	Leibniz Institute for Astrophysics Potsdam (AIP)	MUSE-Wide survey TAP Service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://musewide.aip.de/tap	vs:catalogresource	The TAP Service registry for musewide.aip.de.
TAPVizieR	CDS VizieR service	TAP VizieR query engine	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://cds.vizier/tap	vs:catalogservice	This service provides TAP access to a simplified view of the VizieR database <a href="#">(more)</a>
SIMBAD TAP	CDS SIMBAD service	SIMBAD TAP query engine	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://cds.simbad/tap	vs:catalogservice	This service provides TAP access to a simplified view of the SIMBAD database <a href="#">(more)</a>
UCL Astro TAP	astro.ucl.ac.uk	UCL DaCHS server TAP service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://astro.ucl.ac.uk/tap	vs:catalogservice	The UCL DaCHS server's TAP end point. The Table Access Protocol (TAP) lets you execute queries against our database tables, <a href="#">(more)</a>
VizieR ObsTAP	CDS VizieR service	TAP VizieR query engine	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://cds.vizier/obstap	vs:catalogservice	This service provides ObsTAP access to VizieR spectra, time-series and images. <a href="#">(more)</a>
MissionMAST TAP	Space Telescope Science Institute	MAST STScI MissionMAST TAP service for HST Science Data	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://archive.stsci.edu/mission	vs:catalogservice	The Table Access Protocol (TAP) lets you execute queries against our database tables, and inspect various metadata. <a href="#">(more)</a>
ChIVO TAP	ChIVO	ChIVO TAP service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://chivo/tap	vs:catalogservice	The ChIVO's TAP end point. The Table Access Protocol (TAP) lets you execute queries against our database tables, inspect vari <a href="#">(more)</a>
IAA and CAB TAP	Instituto de Astrofísica de Andalucía-CSIC; IAFN-CAB	Cross section values TAP service	tritableaccess1.0	not applicable	ivo://spectrum.iaa/tap	vs:catalogservice	The Cross section values' TAP end point. The Table Access Protocol (TAP) lets you execute queries against our database table <a href="#">(more)</a>
VSA TAP	WFAU, Institute for Astronomy, University of Edinburgh	VSA - VISTA Science Archive	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://wfau.roe.ac.uk/vsa-tap	vs:catalogservice	The VISTA Science Archive (VSA) holds the image and catalogue data products generated by VIRCAM on the Visible and Infrared S <a href="#">(more)</a>
ia2_projects_tap	INAF IA2 Project Resources TAP Service	INAF IA2 Project Resources TAP Service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://ia2.inaf.it/tap/projects	vs:catalogservice	INAF IA2 TAP service dedicated to projects and surveys that are not direct outcome of IA2 managed observatory <a href="#">(more)</a>
GCP TAP	Planetary Virtual Observatory and Laboratory (PVOL)	PVOL EPN-TAP TAP service	tritableaccess1.0, undefined, undefined, undefined	not applicable, not applicable, not applicable, not applicable	ivo://pvol/tap	vs:catalogservice	The PVOL EPN-TAP's TAP end point. The Table Access Protocol (TAP) lets you execute queries against our database tables, inspe <a href="#">(more)</a>
SkyMapper TAP	National Computational Infrastructure	SkyMapper TAP	tritableaccess1.0	not applicable	ivo://nci.org.au/skymapper/t	vs:catalogservice	SkyMapper TAP service
WiggleZ TAP	National Computational Infrastructure	WiggleZ Final Data Release TAP	tritableaccess1.0	not applicable	ivo://nci.org.au/wigglez/tap	vs:catalogservice	WiggleZ final data release TAP service

Virtual Observatory for Extragalactic... The VVO Astro Data Center's TAP end point. The Tabler... access Protocol (TAP)

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# Regular Resources Validation – “weather report”



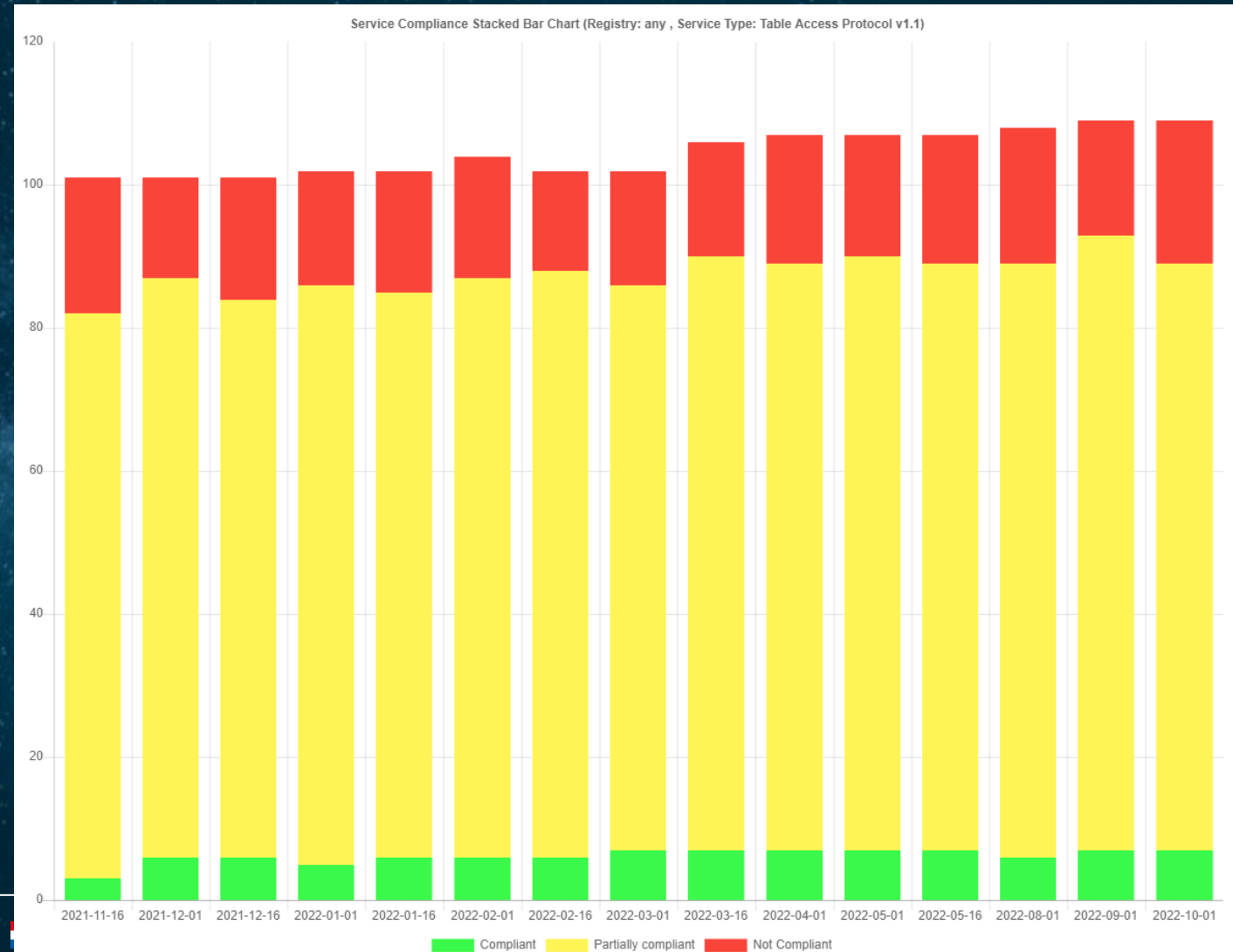
Own Validators for

- SCS v1.03
- SIAP v1.0 & 2.0
- SSAP v1.1

TAP v1.0 & 1.1 through Taplint

See presentation in Ops IG session

•Compliant (no requirement fails)	
A++	no criterion fails
A+	no requirement, warning or recommendation fails
A	no requirement or warning fails, but at least one recommendation fails
B	no requirement fails, but at least one warning fails
•partially compliant (some (but not all) requirements fail)	
C	at least one (1) req fails, but at least one (1) req equally succeeds
C-	at least two (2) reqs fail, but at least one (1) req equally succeeds
C--	at least three (3) reqs fail, but at least one (1) req equally succeeds
•not compliant (all requirements fail)	
D	all reqs fail but some other criterion (of lesser importance) succeeds
E	no criterion succeeds
Criterion Type	
name	description
REQUIREMENT	Tests drawn from 'MUST' statements in the respective standard
WARNING	Tests drawn from strongly encouraged 'SHOULD' statements in the respective standard
RECOMMENDATION	Tests drawn from 'SHOULD' statements in the respective standard
EXTRA	Criteria not defined in the IVOA 'Service Validation' wiki



# Standalone Validator



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## Euro-VO Registry

STANDALONE VALIDATION

Service Type: **Table Access Protocol v1.1** Access URL:  **Add Job**

Service Access URLs

Service Type	Standard Version	Compliance	Access URL	Validated on	Duration in ms	Validate Now	Remove Job
TAP11	1.1		<a href="https://gea.esac.esa.int/tap-server/tap">https://gea.esac.esa.int/tap-server/tap</a>		0	validating...	<b>Remove</b>
TAP11	1.1	<b>Partially Compliant (C-)</b>	<a href="http://hst.esac.esa.int/tap-server/tap">http://hst.esac.esa.int/tap-server/tap</a>	16:29:43 10/10/2022	9112	<b>Run</b>	<b>Remove</b>

Validation

Val Code	Val Type	Val Result	Description
E_CNID	REQUIREMENT	Failed	Column name not ADQL identifier
E_CTYP	REQUIREMENT	Failed	
F_EXNO	extra	Failed	Validation URL
F_NOUP	extra	Failed	
W_CZZZ	WARNING	Failed	http://hst.esac.esa.int/tap-server/tap
W_CUNI	WARNING	Failed	
W_UNSC	WARNING	Failed	Details
E_A2XI	REQUIREMENT	Pass	
E_ADQX	REQUIREMENT	Pass	[1]Check content of tables metadata from /tables: Column name is not ADQL identifier 'ra dec' in table ivoa.ssap - should delimit like "'ra dec'"
E_BAPH	REQUIREMENT	Pass	
E_BMIM	REQUIREMENT	Pass	[2]Check content of tables metadata from TAP_SCHEMA: Column name is not ADQL identifier 'ra dec' in table ivoa.ssap - should delimit like "'ra dec'"
E_CERR	REQUIREMENT	Pass	
E_CINT	REQUIREMENT	Pass	
E_CLDR	REQUIREMENT	Pass	
E_CLIO	REQUIREMENT	Pass	
E_CLOG	REQUIREMENT	Pass	
E_CLRD	REQUIREMENT	Pass	
E_CNAM	REQUIREMENT	Pass	
E_CPIF	REQUIREMENT	Pass	
E_CPIO	REQUIREMENT	Pass	
E_CPSX	REQUIREMENT	Pass	
E_CPT1	REQUIREMENT	Pass	
E_CPTV	REQUIREMENT	Pass	
E_CRSV	REQUIREMENT	Pass	
E_CTNO	REQUIREMENT	Pass	
E_CUCD	REQUIREMENT	Pass	
E_CUNI	REQUIREMENT	Pass	
E_CUTP	REQUIREMENT	Pass	
E_DCER	REQUIREMENT	Pass	
E_DECO	REQUIREMENT	Pass	
E_DEHT	REQUIREMENT	Pass	
E_DEMO	REQUIREMENT	Pass	

Detailed validation against each individual criteria specified in the IVOA standards.

Missing API to do the same in a scriptable manner  
Will be developed as part of Euro-VO Registry v4.0, expected summer 2023.



# Registry Ecosystem health report



## Registry Anomalies Report

Anomalies discovered in the IVOA registry ecosystem.

Report run time: 2022-10-01T00-03-58.

anomaly	anomaly kind	counts
<a href="#">XSD-invalid RoR registry resource</a>	<a href="#">ROR</a>	2
<a href="#">common managed authority</a>	<a href="#">ROR</a>	1
<a href="#">common managed authority</a>	<a href="#">HRV</a>	1
<a href="#">same (case-insensitive) registry short name</a>	<a href="#">HRV</a>	4
<a href="#">a registry record was harvested that was not also found in the RoR</a>	<a href="#">ROR-HRV</a>	4
<a href="#">OAI-PMH / RoR registry info discrepancy</a>	<a href="#">ROR-HRV</a>	13
<a href="#">OAI-PMH protocol failure</a>	<a href="#">SUI</a>	7

warning	warning kind	counts
<a href="#">a registry doesn't contain a 'shortName' field</a>	<a href="#">RORW</a>	7
<a href="#">common managed authority prefix</a>	<a href="#">RORW</a>	2
<a href="#">same (case-insensitive) registry short name</a>	<a href="#">RORW</a>	1
<a href="#">identifier in OAI-PMH namespace</a>	<a href="#">RORW</a>	1
<a href="#">common managed authority prefix</a>	<a href="#">HRVW</a>	2
<a href="#">a registry doesn't contain a 'shortName' field</a>	<a href="#">HRVW</a>	8
<a href="#">a registry is not declared as a harvestable registry</a>	<a href="#">HRVW</a>	4

Detailed information for all anomalies below.

## RoR registry resource anomalies

Anomalies discovered when examining solely the representation of registry resource records as made available by the RoR

### ROR-01 :: XSD-invalid RoR registry resource

A registry resource record as made available by the RoR is XSD-invalid

Anomaly count: 2

#	Description
1	ivo://jacobsuni/_system_/services/registry   cvc-complex-type.2.4.a: Invalid content was found starting with element 'logo'. One of '{name}' is expected.
2	ivo://China-VO/registry   cvc-complex-type.2.4.a: Invalid content was found starting with element 'validationLevel'. One of '{validationLevel, title}' is expected.

## Harvests with wrong Managed Authority records

Harvest operations that yielded wrong Managed Authority records in the last 30 days.

Only latest for each kind shown.

Report run time: 2022-10-01T00-00-08.

IVOID	Metadata	Operation	Idx	%
<a href="#">ivo://archive.stsci.edu/nvregistry</a>	ivo_vor	FH	426	1
<a href="#">ivo://CEFCa/catalogues/registry</a>	ivo_vor	FH	19	100
<a href="#">ivo://CEFCa/catalogues/registry</a>	oai_dc	FH	19	100
<a href="#">ivo://helio-vo.eu.org/astrogrid.registry.RegistryService</a>	ivo_vor	FH	83	3
<a href="#">ivo://helio-vo.eu.org/astrogrid.registry.RegistryService</a>	oai_dc	FH	83	3
<a href="#">ivo://ivoa.net/rofi</a>	ivo_vor	FH	82	100
<a href="#">ivo://padc.obspm.astro/_system_/services/registry</a>	ivo_vor	FH	5	8
<a href="#">ivo://padc.obspm.astro/_system_/services/registry</a>	oai_dc	FH	5	8
<a href="#">ivo://stc.pas/_system_/services/registry</a>	ivo_vor	FH	101	29
<a href="#">ivo://stc.pas/_system_/services/registry</a>	oai_dc	FH	101	29

### STSCI :: ivo\_vor :: FH

Harvested at: 2022-09-09, total number of wrong Managed Authority records: 3

Wrong Managed Authority records found when harvesting registry with IVOID [ivo://archive.stsci.edu/nvregistry](#), for the ivo\_vor metadata fo

At the OAI-PMH interface:

[http://vao.stsci.edu/directory/oai.aspx?verb=Identify](#)

... the registry declared the following 32 managed authorities: anusf.anu.au, archive.eso.org, archive.noao.edu, archive.stsci.edu, arecibo.cornell.edu, mast.stsci.edu, msc.koa, NAOC, nao.ua, nasa.gsfc.nas.nasa.gov, ned.ipac, nexsci.ipac, nrao, nvo.jhu, obs-lp.fr, obs-lyon.fr, obo.stsci, sdss.fnal, sc

The harvest contained 3 records (out of a total of 280) that did not belong to any of the above. Below are 3 such records:

- ivo://nasa.heasarc/skyview/2mass\${b}
- ivo://nrao.archive/nrao.archive
- ivo://nrao.archive/nrao.archive

The below 1 contact detail elements are declared for said registry (in the registry resource):

- o name: MAST VO team
  - o email: vo-registry@stsci.edu

### CEFCa Catalogues :: ivo\_vor :: FH

Harvested at: 2022-09-09, total number of wrong Managed Authority records: 5

Wrong Managed Authority records found when harvesting registry with IVOID [ivo://CEFCa/catalogues/registry](#), for the ivo\_vor metadata fo

At the OAI-PMH interface:

[https://archive.cefc.es/catalogues/registry\\_harvest.html?verb=Identify](#)

... the registry declared the following 1 managed authorities: ceffc.

The harvest contained 5 records (out of a total of 5) that did not belong to any of the above. Below are 5 such records:

- ivo://CEFCa/minipas/MINI-PAS-PDR201912
- ivo://CEFCa/catalogues/registry
- ivo://CEFCa

Monthly checks of harvesting among registries from RoR

Reports available at

[http://registry.euro-vo.org/evor/whsaweb/download\\_report\\_s\\_service?key=s\\_ra\\_202210.html](http://registry.euro-vo.org/evor/whsaweb/download_report_s_service?key=s_ra_202210.html)

[http://registry.euro-vo.org/evor/whsaweb/download\\_report\\_s\\_service?key=s\\_wma\\_202210.html](http://registry.euro-vo.org/evor/whsaweb/download_report_s_service?key=s_wma_202210.html)



# Euro-VO Registry Plans – 2022-2024



Development had been put on hold in 2022, due to lack of (human) resources

Operations and minimum support this year through Sara Nieto (RHEA)

New contract with Winter Way as of September 2022 for development and operations (Mattias Wångblad - [mattias@winterway.eu](mailto:mattias@winterway.eu))

## Main upcoming developments:

- Need for significant code refactoring to facilitate development, operations and maintenance
- More Agile development approach
- User Authentication and Authorization through ESA LDAP services (like all ESA archives)
- REST API to Resource Validation
- Improvement of Euro-VO Registry Validators and validation process
- Implementation of updated IVOA Registry standards
- Better support and documentation for VOResources publishers
- Various bug fixes

