

Operations Interest Group Session Introduction

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Charter

- Publicize existing forums and encourage new ones for monitoring services, notifications, discussions and questions regarding “real-time” operations of VO / distributed services.
- Promote discussion within the IVOA on standards and practices that would increase the reliability of VO implementations.
- Develop nominal implementation strategies for VO services as guides to best practice in the operational use of VO protocols.
- Periodically provide reports to the IVOA executive and WGs summarizing availability, quality and usage statistics for distributed services and VO protocols.
- During the IVOA standards review process, assess the validation capabilities that are now required as part of new standards.

NAVO Monitor Statistics

Center	# Tested	Total # of Services	2015/5/1 to 2016/4/30	2016/5/1 to 2017/4/30	2017/5/1 to 2018/4/30	2018/05/01 to 2018/11/01	$\Delta(+/-)$
Astronet	2	28	91.2	64.8	40.6	96.7	56.1
CDS VizieR	7	19363	99.4	98.7	99.4	98.8	-0.6
ESA VO	5	23	98.8	98.1	98.3	95.7	-2.6
GAVO	6	67	99.5	99.7	98.1	98.4	0.3
HEASARC	7	1052	96.9	99.3	99.2	99.1	-0.1
INAF	4	39	97.8	97.8	87.1	96.5	9.4
IRSA	7	470	99.6	99.5	99.3	99.7	0.4
JVO	4	37	99.4	99.8	99.5	98.3	-1.2
MAST/STScI	9	135	99.6	99.0	99.7	97.7	-2.0
SDSS	6	24	95.1	98.1	99.3	98.8	-0.5
SVO	10	59	99.6	98.6	99.7	99.7	0.0
VO Paris	4	26	99.3	95.5	98.7	97.9	-0.8
VOPDC OBSPM	2	26	99.7	99.2	98.9	99.8	0.9
WFAU	6	233	89.0	95.9	97.2	95.4	-1.8

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3CR Snapshots	1	1	99.0	99.4	99.9	99.5	-0.4
ARCHES	2	2	92.0	99.1	93.0	80.6	-12.4
ARVO	1	1	96.3	98.1	87.1	97.7	10.6
ASDC	1	1	98.8	99.9	97.9	99.8	1.9
ASU	4	13				91.5	
BIRA	2	2				100.0	
BSDC	3	9	91.6	99.2	98.4	99.3	0.9
CADC	4	6	95.3	98.1	96.2	93.3	-2.9
CDPP	1	3	97.6	98.6	98.6	99.8	1.2
CDS	1	1	98.9	99.6	99.9	97.3	-2.6
CDS SIMBAD	2	2	98.5	99.7	99.6	98.7	-0.9
CESAM	2	11				63.1	
CSIRO	5	16	98.9	99.3	78.6	80.0	1.4
ChiVO	4	4				85.7	85.7
China VO	3	4	89.7	98.8	99.3	99.2	-0.1
DAME	1	1	93.5	95.2	87.7	94.9	7.2
ESO ORG	3	4	99.8	98.9	99.4	95.6	-3.8
FU-Berlin	2	2				100.0	
GAVO Purx	1	2			99.4	99.2	-0.2
GCP	2	2				93.9	
HESIOD	2	6	96.8	98.4	98.7	98.9	0.2
Harvard ADS	1	1	97.9	95.5	97.5	95.0	-2.5
Harvard CXC	4	8	99.6	99.3	99.9	99.6	-0.3
Heidelberg	2	4		99.9	99.6	99.4	-0.2
Helio VO	1	3	94.4	99.4	98.0	99.9	1.9
IAA	2	2				99.8	
IDOC	1	5		84.3	99.1	98.4	-0.7
IVOA	1	2	99.9	99.8	99.7	100.0	0.3
IVOA RofR	1	1	98.1	99.5	99.7	100.0	0.3
IWF	2	2				99.8	

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Jacobs University	2	2				100.0	
MAGIC	1	1	96.0	56.9	0.0	0.0	0.0
MPPPC	1	1			97.4	99.9	2.5
MSSL	2	4			36.0	12.0	-24.0
NAO	1	3	97.1	97.6	83.4	91.1	7.7
NCI	2	3	96.7	98.2	99.6	99.5	-0.1
NEA	1	1		100.0	99.6	99.9	0.3
NED	4	5	99.8	99.6	99.4	99.2	-0.2
NOAO	1	1	92.0	95.6	99.9	99.9	0.0
NOVA	4	6	94.3	88.6	69.3	86.2	16.9
NRAO	1	1	99.9	99.8	100.0	100.0	0.0
OVGSO	1	1	97.8	95.6	97.8	98.7	0.9
Obs Haute Provence	1	1	99.1	98.6	99.4	99.5	0.1
Obs Lyon	1	2	98.0	97.7	99.1	98.3	-0.8
SAO RAS	3	8				99.1	
SAO TDC	2	2				99.9	
StarDB	1	1	99.0	99.7	98.2	99.7	1.5
Swinburne	1	1	99.9	99.9	100.0	61.5	-38.5
Tohoku University	2	2				98.5	
UCL Astro	2	2				99.6	
USNO	1	3	90.2	66.2	94.5	18.8	-75.7
VO Paris DC	1	2	99.7	99.5	99.2	99.5	0.3
VOPDC IAP	1	1	99.7	99.5	99.2	99.5	0.3
VOVU	1	1				100.0	
VOXAstro	3	3				99.7	
XAOVO	3	7	98.9	99.3	97.2	99.7	2.5
XCAT	5	14	99.0	99.4	99.9	99.5	-0.4

Summary

Center	# Tested	Total # of Services	2015/5/1 to 2016/4/30	2016/5/1 to 2017/4/30	2017/5/1 to 2018/4/30	2018/05/01 to 2018/11/01	$\Delta(+/-)$
Total (+CDS)		21782	21520.6	21426.4	21553.7	21499.5	-54.2
Uptime% (+ CDS)	189	21707	99.1	98.6	99.2	98.7	-0.5
Uptime% (- CDS)	179	2341	97.0	98.3	97.7	97.9	.2

Permanent Service Issues

Summary of Problematic Sites					
Center	Total	# Tested	# To Remove	Untouched	Type to Remove
MAGIC	1	1	1	0	1 SSA
USNO	3	1	3	0	3 C
MSSL	4	2	1	3	1 C
CESAM	11	2	1	10	1 C

Services to Delete	
Site	Identifier
MAGIC SSA	ivo://magic/ssa
USNO Cone	ivo://fs.usno/cat/nomad
	ivo://fs.usno/cat/usnoa2
	ivo://fs.usno/cat/usnob
MSSL Cone	ivo://mssl.ucl.ac.uk/xmmsuss_dsa/xmmsuss
CESAM Cone	ivo://lam.cesam/SCS/VUDS-COSMOS/DR1