



State of the TCG

Sesto
2015-06-15

Séverin Gaudet
For the TCG



Technical Coordination Group

- ▶ Assures technical coordination amongst WGs/IGs
- ▶ Liaison with IVOA Exec
- ▶ Specific role in Recommendation Process
- ▶ WG/IG chairs and vice-chairs:
 - ▶ 3-year terms
 - ▶ 1 year extension possible

	Chair	Vice-Chair
TCG	Séverin Gaudet	Matthew Graham
Working Groups		
Applications	Pierre Fernique	Tom Donaldson
Data Access Layer	François Bonnarel	Marco Molinaro
Data Model	Jesus Salgado	Omar Laurino
Grid and Web Services	André Schaaff	Brian Major
Registry	Markus Demleitner	Pierre Le Sidaner
Semantics	Norman Gray	Mireille Louys
Interest Groups		
Data Curation & Preservation	Françoise Genova	
Education	Massimo Ramella	Sudhanshu Barway
Knowledge Discovery in Databases	George Djorgovski	n/a
Operations	Tom McGlynn	
Theory	Franck Le Petit	Rick Wagner
Time Domain	John Swinbank	Mike Fitzpatrick
IVOA Committees		
Exec	Christophe Arviset	Enrique Solano
Standard and Processes	Francoise Genova	n/a
Science Priorities	Mark Allen	n/a



Technical Coordination Group

- ▶ New Interest Group with Interim chair

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Technical Coordination Group

► Terms ending this InterOp

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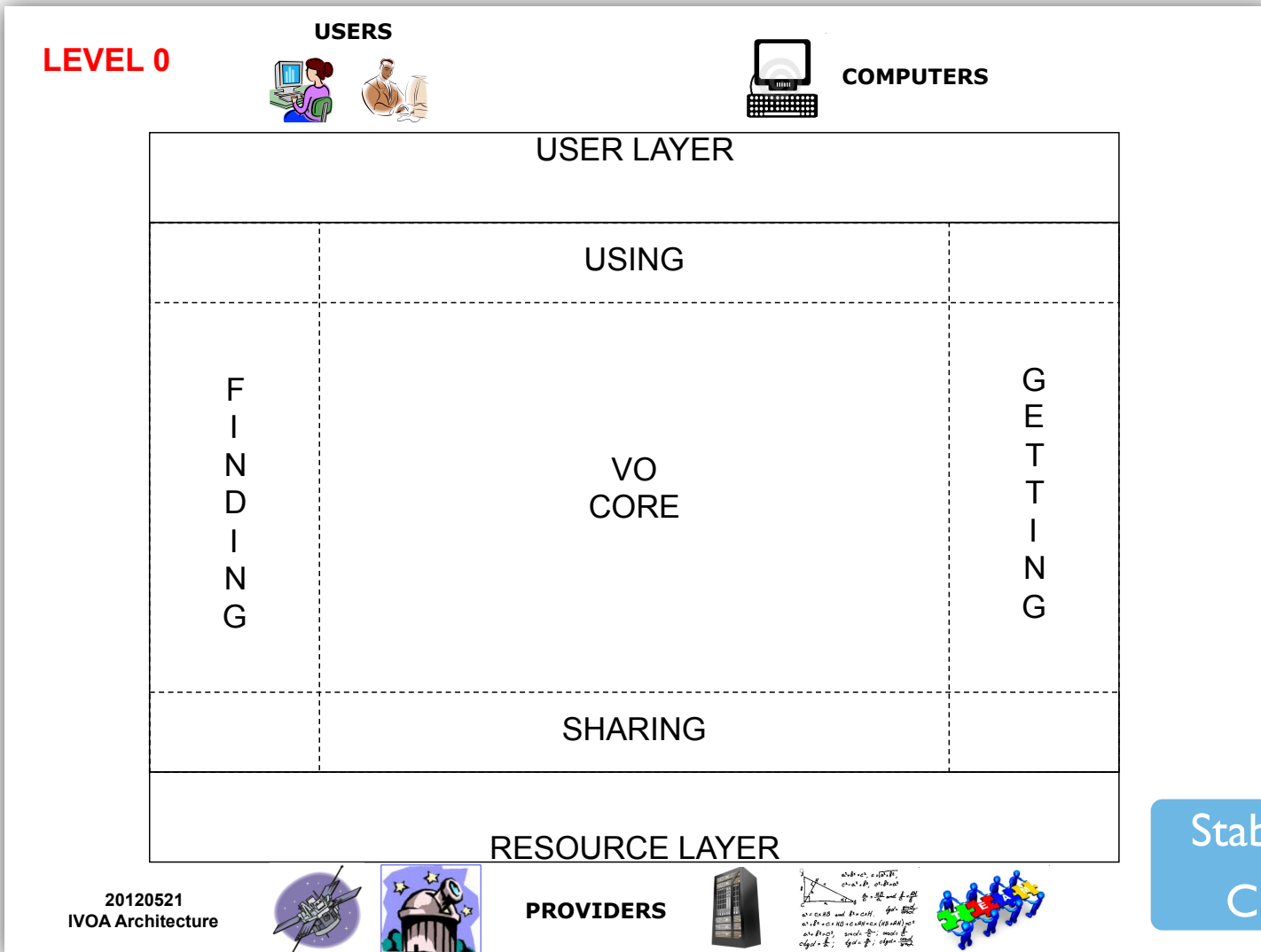


IVOA Architecture

- ▶ IVOA Architecture Note released on Nov 2010
 - ▶ <http://www.ivoa.net/Documents/Notes/IVOAArchitecture/20101123/index.html>
- ▶ General description of IVOA Architecture
 - ▶ Level 0, 1, and 2 from general to VO specific
 - ▶ Present all IVOA standards in one slide (Level 2)
- ▶ Level 0 and 1 stable since creation
- ▶ Level 2 updated with new IVOA standards
- ▶ Individual standards diagram updated



IVOA Architecture Level 0



Stable Since
Creation



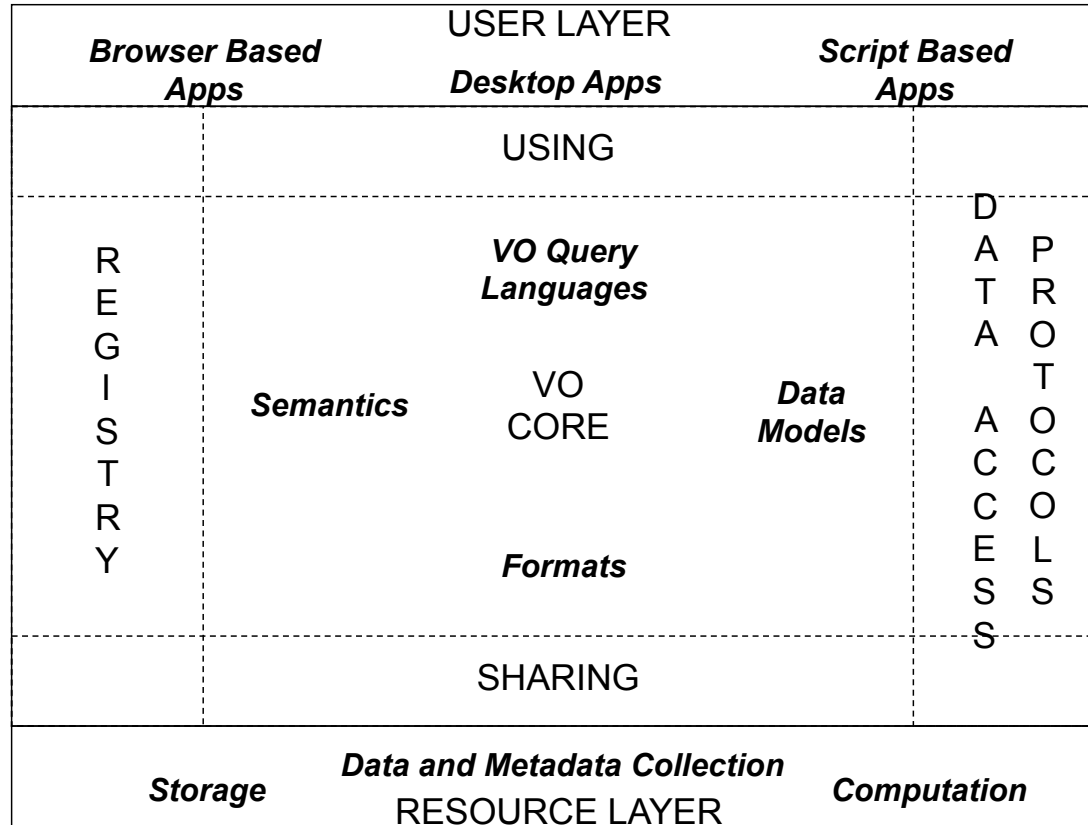
IVOA Architecture Level I

LEVEL 1

USERS



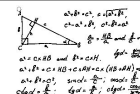
COMPUTERS



20120521
IVOA Architecture



PROVIDERS



Stable Since
Creation



IVOA Architecture Level 2

LEVEL 2
All standards



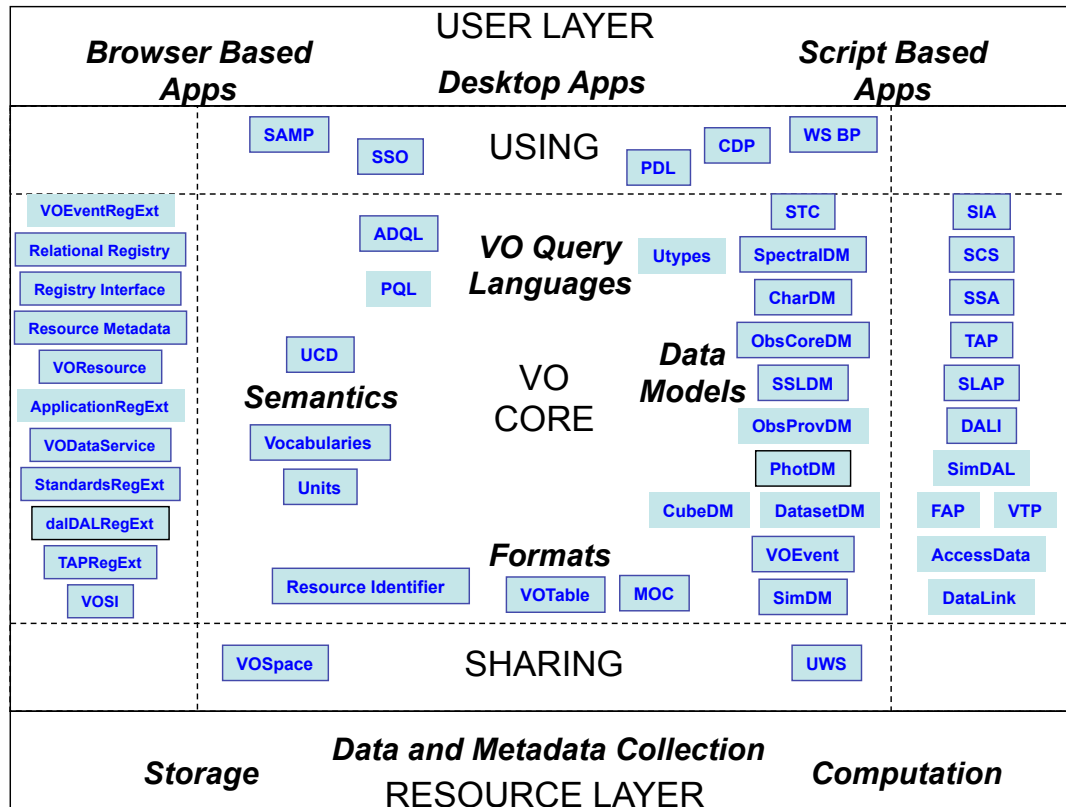
COMPUTERS

REC

InProgress

REGISTRY

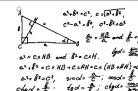
DATA ACCESS PROTOCOLS



20150614
IVOA Architecture



PROVIDERS



Updated with
new standards



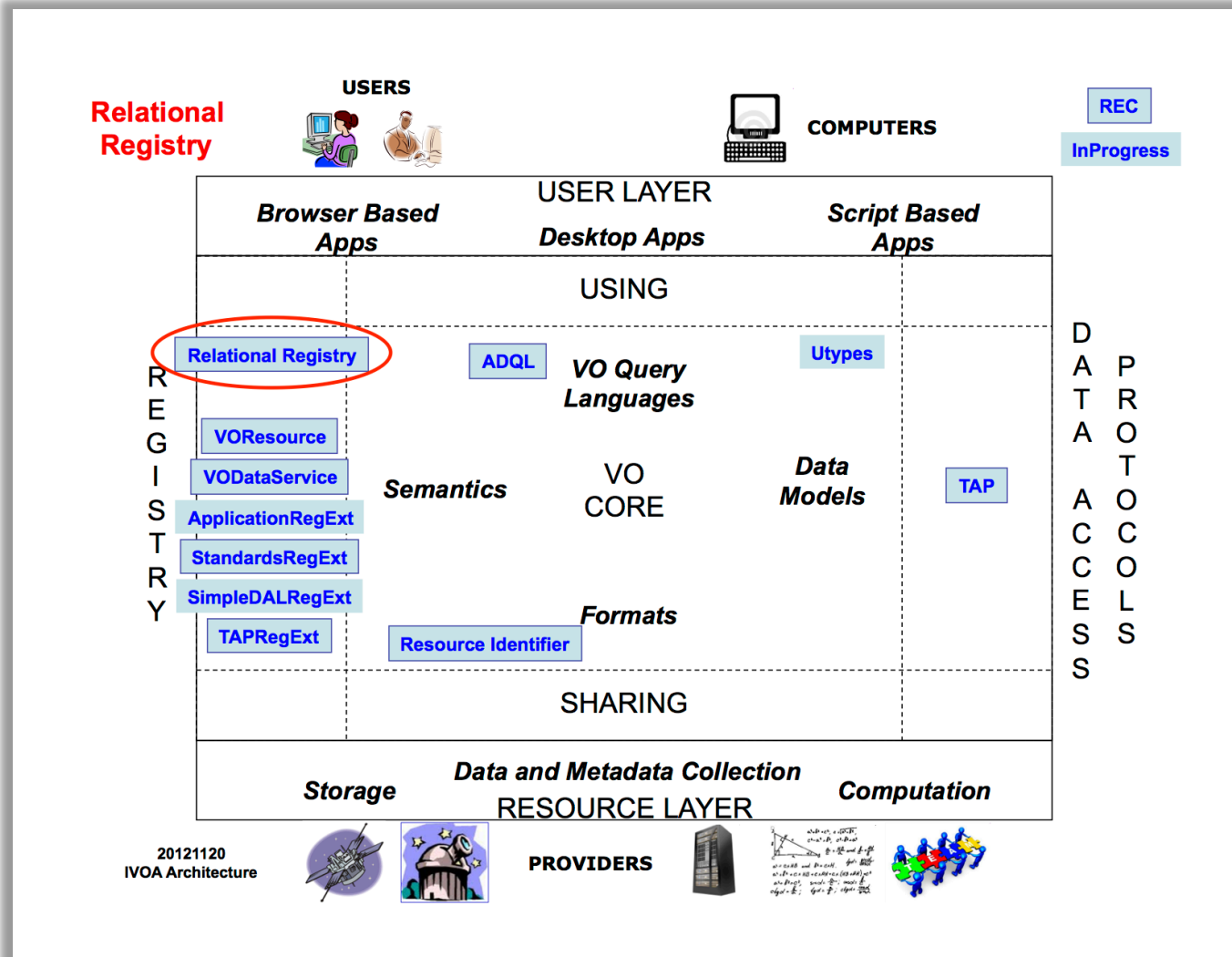
Standards approved at last InterOp

- ▶ Registry WG
 - ▶ Relational Registry (RegTAP) 1.0





Relational Registry 1.0





IVOA Standards – I

Date	WG/IG	Recommendation	Version	Replaces
Oct 2003	Standards & Processes	IVOA Document Standards	1.0	
Date	WG/IG	Recommendation	Version	Replaces
Aug 2004	VOTable	VOTable	1.10	
Date	WG/IG	Recommendation	Version	Replaces
Aug 2005	Semantics	Unified Content Descriptors	1.10	
Dec 2005	Semantics	UCD1+ Controlled Vocabulary	1.11	
Date	WG/IG	Recommendation	Version	Replaces
May 2006	Semantics	Maintenance of UCD Words	1.20	
Nov 2006	VOEvent	VOEvent	1.11	
Date	WG/IG	Recommendation	Version	Replaces
Mar 2007	Registry	IVOA Identifiers	1.12	
Apr 2007	Semantics	UCD1+ Controlled Vocabulary	1.23	1.11
Oct 2007	DM	STC	1.33	
Oct 2007	DM	SpectralDM	1.01	
Nov 2007	DM	CharDM	1.12	
Dec 2007	DAL	SSAP	1.03	

More details can be found on the IVOA Document pages at:
<http://www.ivoa.net/Documents/>



IVOA Standards – 2

Date	WG/IG	Recommendation	Version	Replaces
Jan 2008	GWS	SSO	1.03	
Jan 2008	GWS	VOSpace	1.02	
Feb 2008	Registry	VOResource	1.03	
Feb 2008	DAL	SCS	1.03	
Feb 2008	DAL	SSAP	1.04	1.03
Mar 2008	DM	CharDM	1.13	1.12
Oct 2008	VOQL	ADQL	2.0	
Date	WG/IG	Recommendation	Version	Replaces
Apr 2009	Apps	SAMP	1.11	
Oct 2009	Semantics	Vocabularies	1.19	
Oct 2009	GWS	VOSpace	1.15	1.02
Nov 2009	Registry	Registry Interface	1.0	
Nov 2009	DAL	SIAP	1.0	
Nov 2009	VOTABLE	VOTable	1.2	1.1

More details can be found on the IVOA Document pages at:
<http://www.ivoa.net/Documents/>



IVOA Standards – 3

Date	WG/IG	Recommendation	Version	Replaces
Feb 2010	GWS	CDP	1.0	
Mar 2010	DAL	TAP	1.0	
Apr 2010	Standards & Process	IVOA Document Standards	1.2	1.0
Oct 2010	GWS	UWS	1.0	
Dec 2010	Registry	VODataService 1.1	1.1	
Dec 2010	DM	SSLDM	1.0	
Dec 2010	DAL	SLAP	1.0	
Dec 2010	GWS	WS BP	1.0	
Dec 2010	Apps	SAMP	1.2	1.11
Date	WG/IG	Recommendation	Version	Replaces
May 2011	GWS	VOSI	1.0	
Jul 2011	VOEvent	VOEvent	2.0	1.11
Oct 2011	DM	ObsCoreDM	1.0	
Nov 2011	DM	SpectrumDM	1.1	1.01

More details can be found on the IVOA Document pages at:
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IVOA Standards – 4

Date	WG/IG	Recommendation	Version	Replaces
Feb 2012	DAL	SSAP	1.1	1.04
Apr 2012	Apps	SAMP	1.3	1.2
May 2012	Registry	StandardRegExt	1.0	
May 2012	Theory / DM	SimDM	1.0	
Aug 2012	DAL	TAPRegExt	1.0	
Date	WG/IG	Recommendation	Version	Replaces
Mar 2013	GWS	VOSpace	2.0	1.15
Sep 2013	Apps	VOTable	1.3	1.2
Nov 2013	Reg	SimpleDALRegExt	1.0	
Sep 2013	DM	PhotDM	1.0	
Nov 2013	DAL	DALI	1.0	
Date	WG/IG	Recommendation	Version	Replaces
May 2014	Semantics	VOUnits	1.0	
May 2014	GWS	PDL	1.0	
May 2014	Apps	MOC	1.0	
Nov 2014	Registry	RegTAP	1.0	

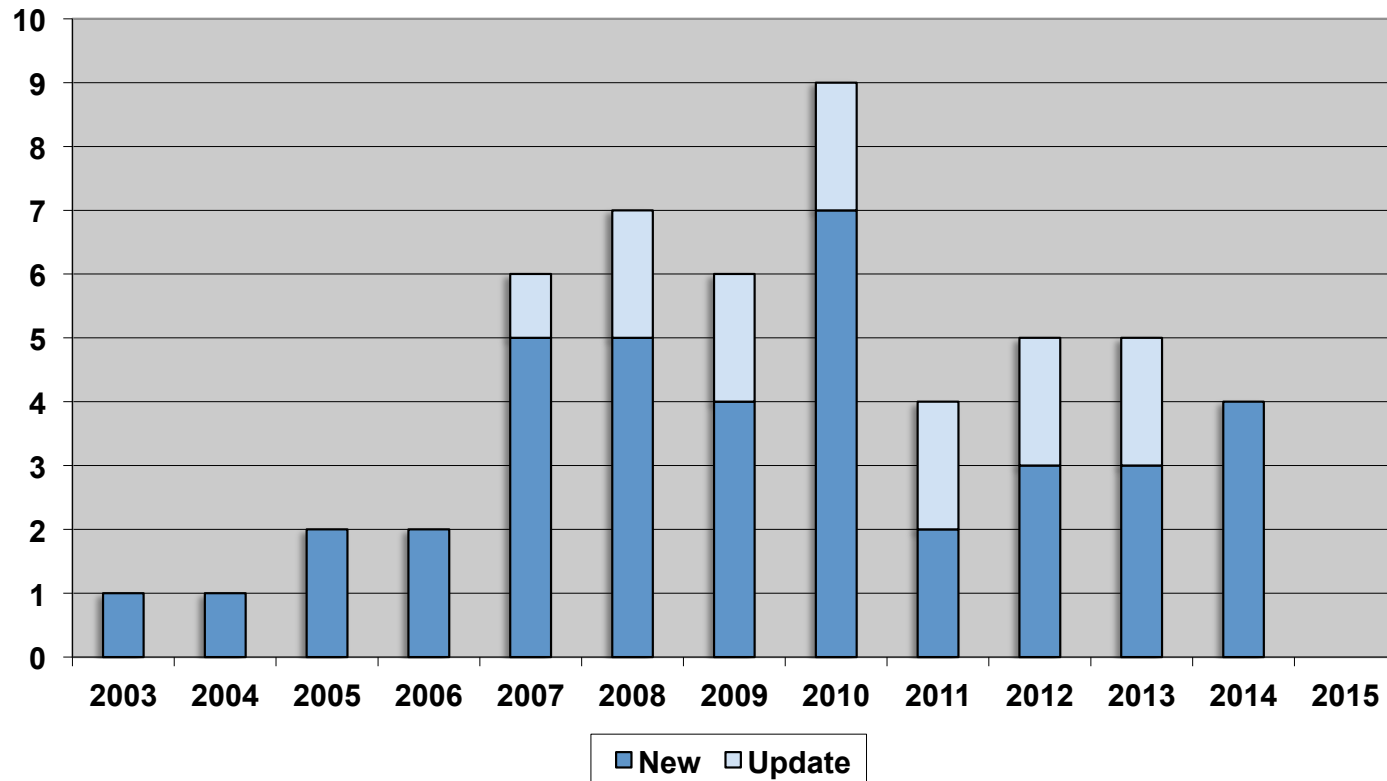
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IVOA Standards per year

Revised with help from Françoise Genova and Christophe Arviset

IVOA Standards Recommended per Year





Exec Endorsed Priorities

- ▶ **Multi-dimensional data:**
 - ▶ **SIA v2.0:**
 - ▶ ObsCore 1.0: Recommendation
 - ▶ Datalink 1.0: In Exec review
 - ▶ SIA 2.0: In TCG review
 - ▶ AccessData 1.0: In WG
 - ▶ **SIA v2.1:**
 - ▶ Obscore 1.1: In WD
 - ▶ ImageDM 1.0: Refactored into DatasetDM and CubeDM, both in WD.
 - ▶ SIAv2.1: to follow ImageDM and/or ObsCore



TCG Meeting June 14 2015

▶ Web Assets

▶ Mailing lists

- ▶ Discrepancy mailing lists
- ▶ Investigate a user registration and profile mechanism
- ▶ WG/IG to moderate respective mailing lists

▶ Document repository

- ▶ Flatten the document directory
- ▶ Investigate automation of Document page tables

▶ Validators

- ▶ Registered services that don't respond and the publishers that don't respond to emails.
- ▶ Should be reviewed



TCG Meeting June 14 2015

- ▶ **Reference Implementations and Validators**
 - ▶ The importance of reference implementations and validators early in the process
 - ▶ Hard to strictly define what they are
 - ▶ A “chicken and egg problem”
 - ▶ A TCG function to evaluate as part of the Recommendation process?
- ▶ **Recommendation Process**
 - ▶ Some things not functioning: late comments, lack of reference implementations, compliance checking and use cases
 - ▶ Brainstorming of ideas
 - ▶ Standards and Processes committee to be tasked with reviewing the process with input from TCG



TCG Meeting June 14 2015

- ▶ **Volute replacement**
 - ▶ Volute/Google Code repository end of life August 2015
 - ▶ Recommendation to Exec to request a free organizational account from GitHub
- ▶ **IVOA schema evolution**
 - ▶ Discussion at this InterOp. If solution is agreed upon, a Strong Note will document the solution.
- ▶ **Errata**
 - ▶ Discussed a proposal to have “Accepted Errata” page for standards and a process to endorse these errata by TCG and Exec.
 - ▶ Proposal to go to Standards and Processes committee



Review Process - I

- ▶ Working Drafts
 - ▶ WG/IG agreement
 - ▶ Leading to a Proposed Recommendation (PR)

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IVOA Document Standards Process





Review Process - 2

- ▶ **Proposed Recommendation**
 - ▶ **Request for Comment (RFC)**
 - ▶ IVOA-wide invitation to review
 - ▶ Review early!!!
 - ▶ TCG members should review
 - ▶ **TCG review and approval**
 - ▶ Integration verification
 - ▶ **Exec review and approval**
- ▶ **WG chairs**
 - ▶ Manage the process
 - ▶ Discretion on accepting late comments

IVOA Document Standards Process





PR's in the Rec Process

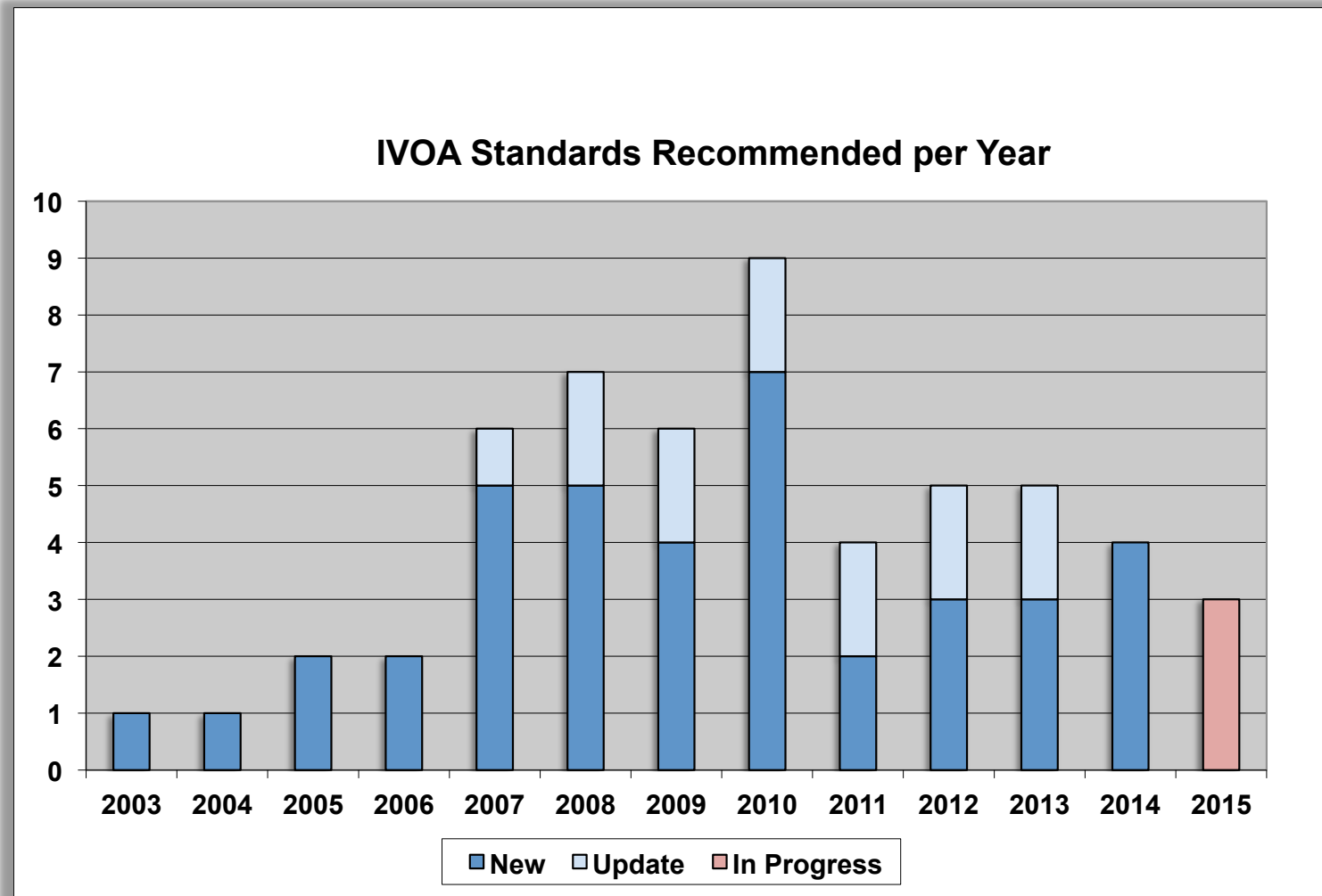
- ▶ In Exec review
 - ▶ DataLink 1.0
- ▶ In post-TCG review
 - ▶ Spectral Data Model 2.0
 - ▶ Simple Image Access (SIA) 2.0
- ▶ In RFC

IVOA Document Standards Process





IVOA Standards per year





Publishing Data in the VO

- ▶ All InterOp participants are invited to provide input
- ▶ TCG to maintain and review

TWiki > IVOA Web > PublishingInTheVONew (2013-05-12, MarkTaylor) Edit Attach

Publishing Data into the VO

- ▶ [Publishing Data into the VO](#)
 - ▶ [0. Introduction](#)
 - ▶ [1. Questions & Answers about what type of data to be published into the VO](#)
 - ▶ [2. Registry for VO Data Service Discovery](#)
 - ▶ [3. Toolkits to publish data into the VO](#)
 - ▶ [4. Developer's corner : other useful software tools and libraries for VO development](#)

0. Introduction

The purpose of this page is to provide practical information about how to publish you data holdings into the VO. The content of this page is user contributed by members of the IVOA community and its content will evolve as IVOA standards and implementations evolve.

Depending of your needs and your technical experience, there are several ways to publish you data into the VO:

- if you have very little technical expertise, you might want to contact your national VO projects who might already have the infrastructure to host your data and make it available to the VO. See the [list of national VO projects](#) and the [selection of open data centers](#) offering publication as a service.

<http://wiki.ivoa.net/twiki/bin/view/IVOA/PublishingInTheVONew>



IVOA Roadmap

- ▶ Roadmap page to be updated by WG/IG chairs after each InterOp.
- ▶ One page per IVOA “semester” – A and B
- ▶ Links to the Roadmap on website footer

TWiki > IVOA Web > IvoaTCG > 2015ARoadmap (2015-06-13, SeverinGaudet) [Edit](#) [Attach](#)

IVOA Roadmap for 2015A

This outlines the roadmap for development activities by the various IVOA working and interest groups in 2015 between the Sesto and Sydney Interops.

- ↓ [IVOA Roadmap for 2015A](#)
 - ↓ [Applications](#)
 - ↓ [Data Access Layer](#)
 - ↓ [Data Model](#)
 - ↓ [Grid and Web Services](#)
 - ↓ [Registry](#)
 - ↓ [Semantics](#)
 - ↓ [Data Curation & Preservation](#)
 - ↓ [Education](#)
 - ↓ [Knowledge Discovery in Databases](#)
 - ↓ [Operations](#)
 - ↓ [Theory](#)
 - ↓ [Time Domain](#)
 - ↓ [Standard and Processes](#)
 - ↓ [Science Priorities](#)

<http://www.ivoa.net>



This InterOp

- ▶ I wish all a productive week!

