



State of the TCG

*Christophe Arviset
For the TCG*

Technical Coordination Group



TCG

TCG	Chair	Vice-Chair
TCG	Christophe Arviset	Séverin Gaudet
IVOA Chair	Paolo Padovani	Ajit Kembhavi
Working Groups	Chair	Vice-Chair
Applications	Tom McGlynn	Mark Taylor
Data Access Layer	Patrick Dowler	Mike Fitzpatrick
Data Model	Mireille Louys	Jesus Salgado
Grid&Web Sevices	Matthew Graham	Paul Harrison
Registry	Gretchen Greene	Pierre Lesidaner
Semantics	Sebastien Derriere	Norman Gray
VOEvent	Rob Seaman	Roy Williams
VOTable (dormant)	François Ochsenbein	n/a
VO Query Language	Merged with DAL since May 2010	
Interest Groups	Chair	Vice-Chair
Data Curation & Preservation	Alberto Accomazzi	n/a
Knowledge Discovery in Databases	Giuseppe Longo	n/a
Theory	Herve Wozniak	Claudio Gheller
IVOA Committees	Chair	Vice-Chair
Standard and Processes	Francoise Genova	n/a
Science Priorities	Dave De Young	n/a

- Technical Coordination amongst WGs/IGs

- Liaison with IVOA Exec

- Specific role in Recommendation Process

- New WG/IG chairs since December

<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/IvoaTCG>

TCG F2F meeting #03 – 15 May



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- Review and update IVOA Architecture
 - Common understanding of inter dependencies between standards
 - Levels 0 and 1 remains unchanged
 - Level 2 gets new standards in
 - Some updates for various upcoming Standards

- Discussion and clarification on the IVOA Recommendation Process

IVOA Architecture Note



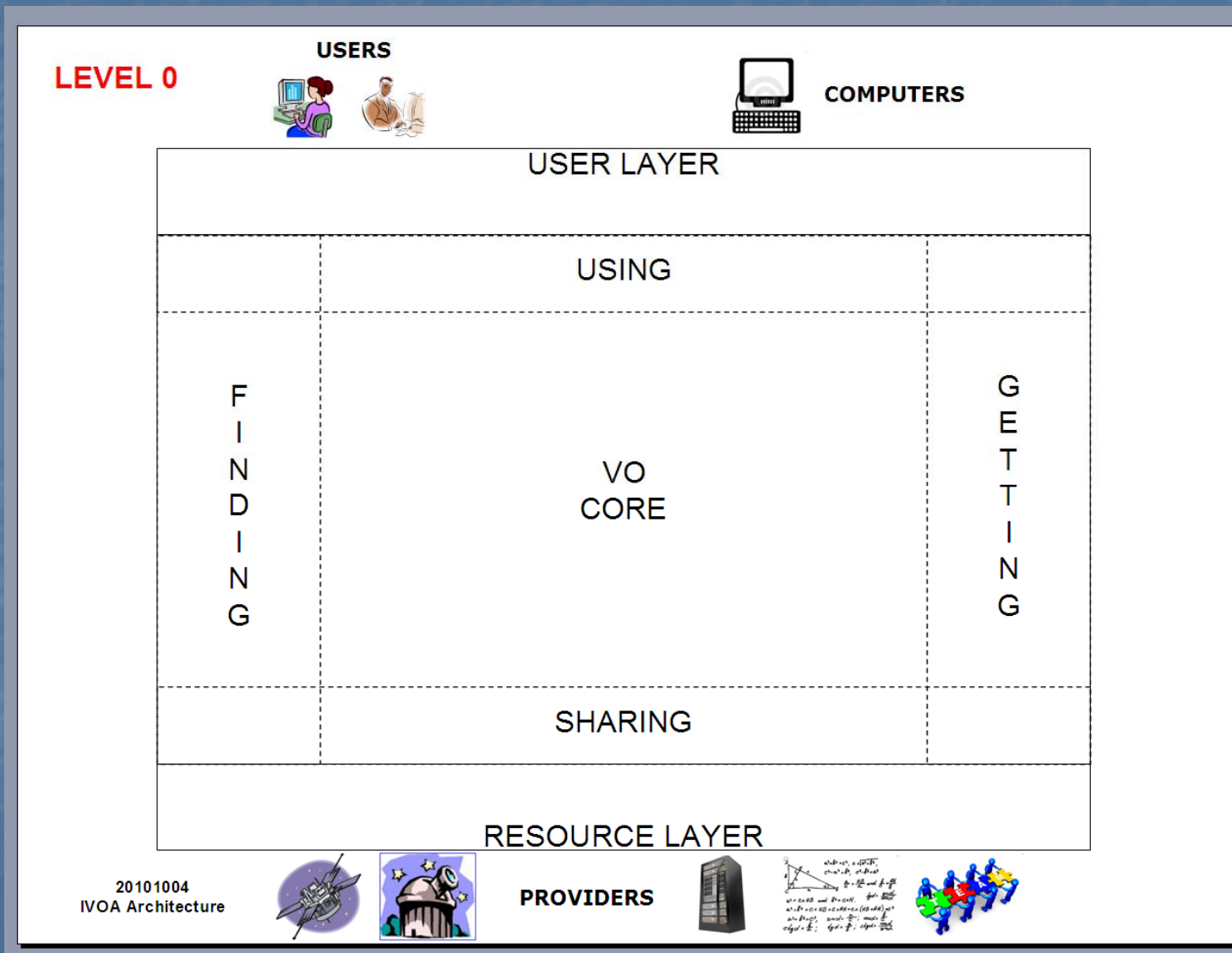
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- Released on 23/Nov/2010
 - <http://www.ivoa.net/Documents/Notes/IVOOArchitecture/20101123/index.html>
- General description of IVOA Architecture
 - Level 0, 1, and 2 from general to VO specific
 - Present all IVOA standards in one slide (Level 2)
- For each existing and upcoming IVOA Std
 - Place in IVOA Architecture, link with other stds
 - General (not too technical) description

IVOA Architecture Level 0



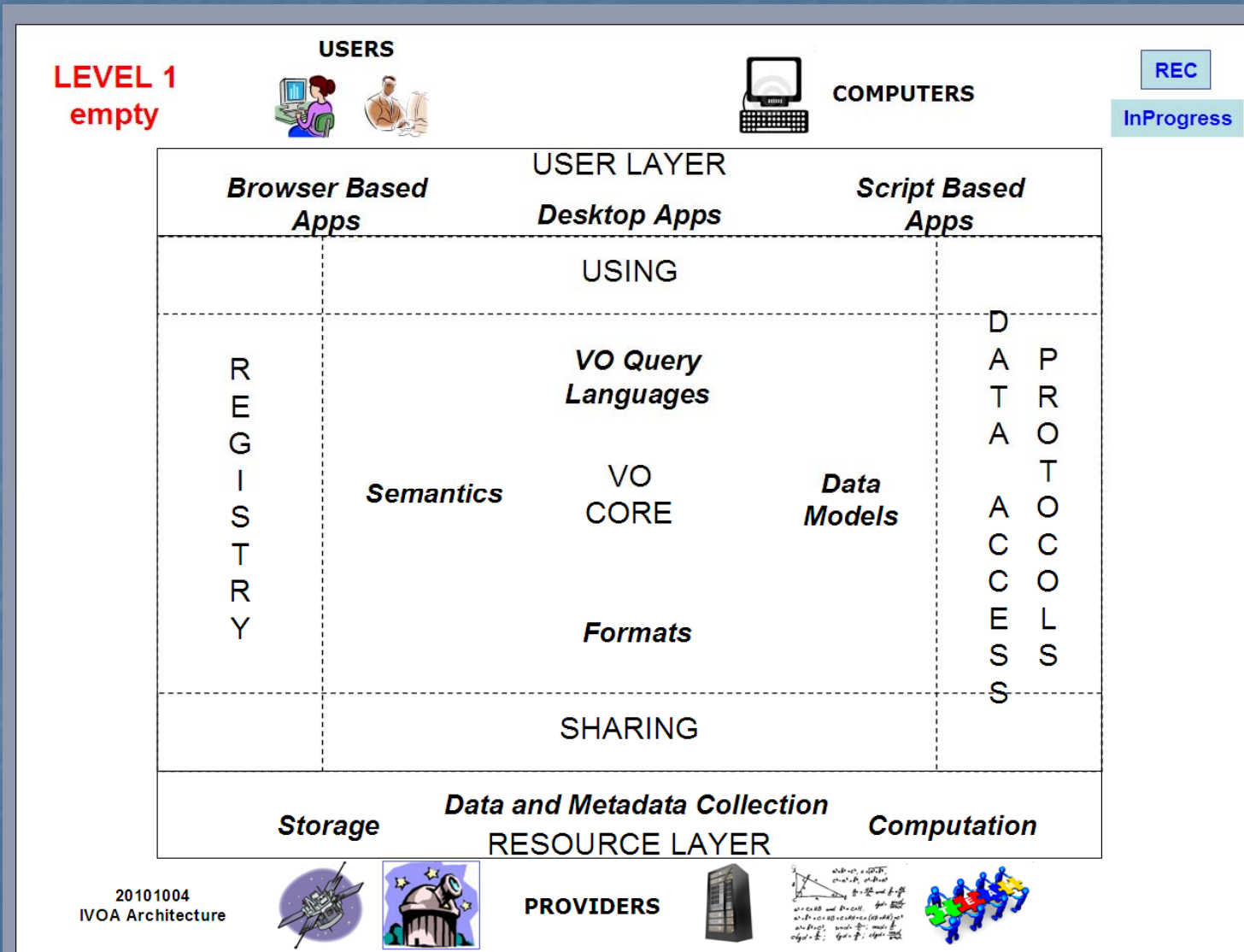
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IVOA Architecture Level 1



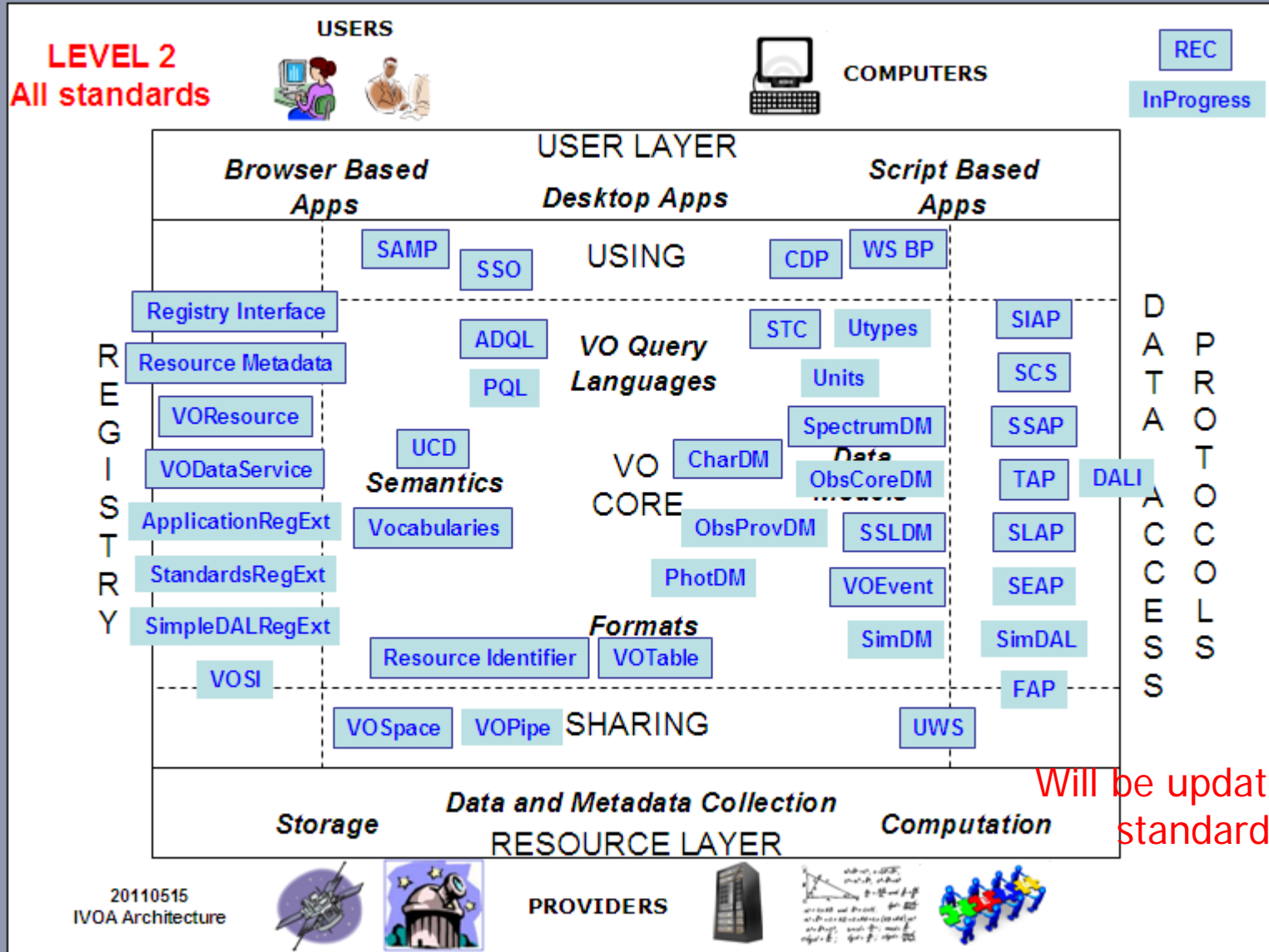
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IVOA Architecture Level 3



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Will be updated when new standards appear

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IVOA Architecture

ObsCoreDM

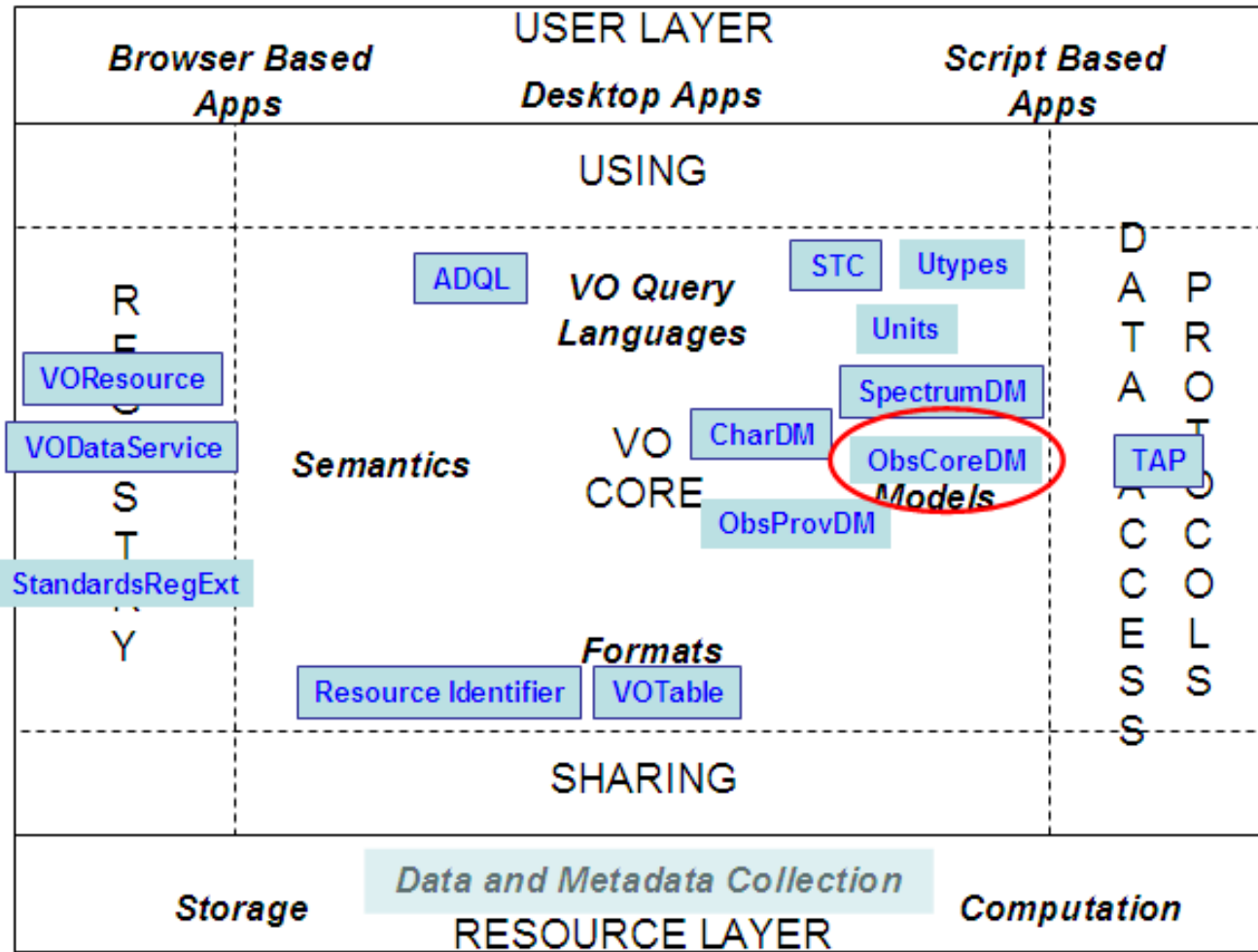
USERS



COMPUTERS

REC

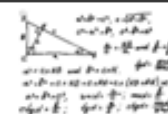
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IVOA Architecture



PROVIDERS



VOEvent

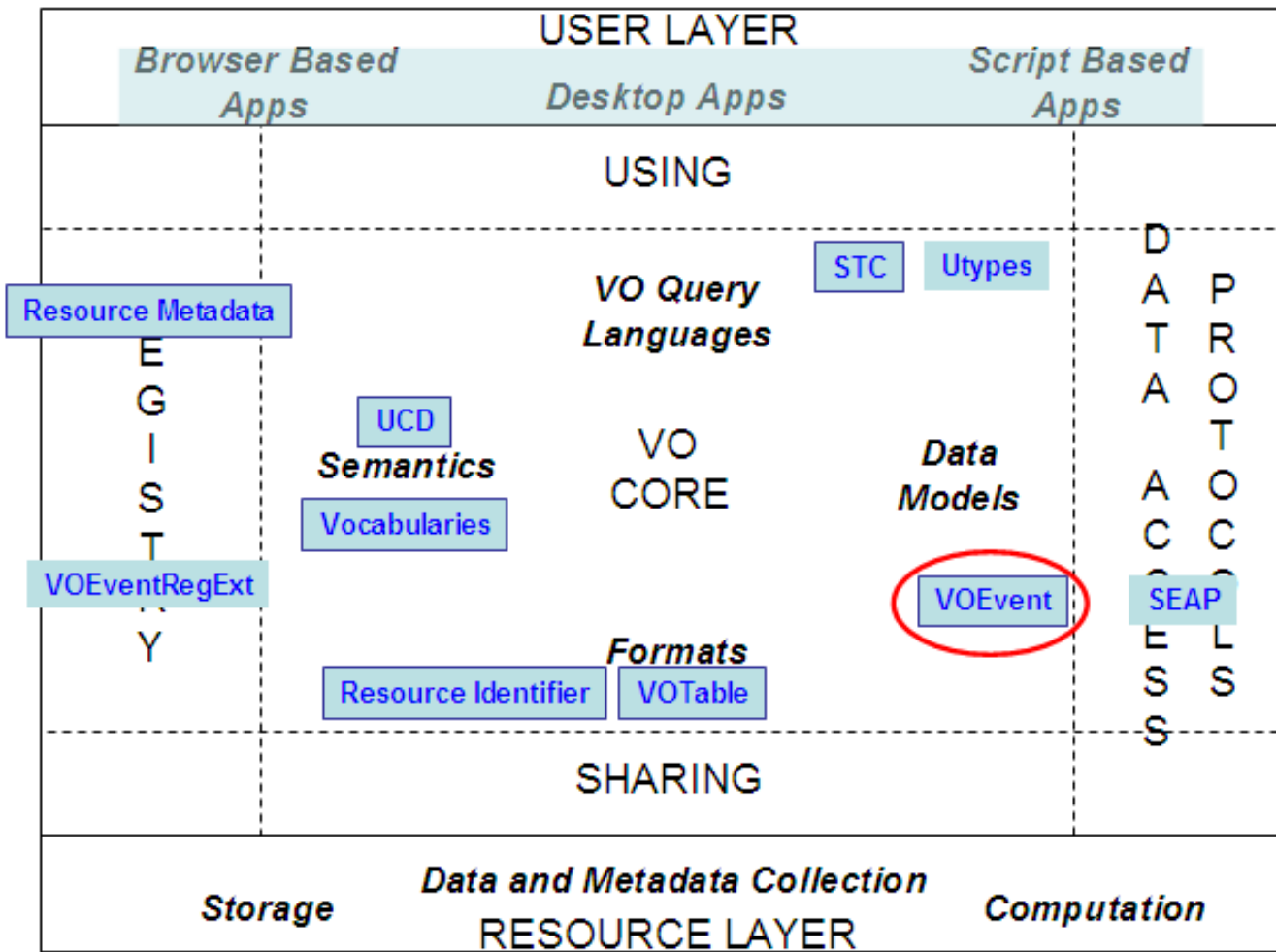
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COMPUTERS

REC

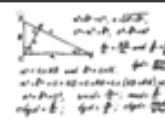
InProgress



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IVOA Architecture



PROVIDERS



Suggestions for IVOA Docs Page



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Technical Specifications

Group	Title	Most stable	In progress	Version history
App	Simple Application Messaging Protocol	1.2	1.3	1.3 1.2 1.2 1.2 1.11 1.11 1.10 1.00
DAL	Simple Cone Search	1.03		1.03 1.02 1.01 1.00
	Simple Image Access	1.0		1.0 1.0 1.0 1.01 1.00
	Simple Line Access	1.0		1.0 1.0 1.0 1.0 1.0 1.0
	Simple Spectral Access	1.04	RFC	1.1 1.04 1.03 1.02 1.01 1.01 1.00
	Table Access Protocol	1.0		1.0 1.0 1.0 1.0 1.0 1.00
	TAPRegExt: a VOResource Schema Extension for Describing TAP Services	1.0	1.0	1.0
	IVOA Astronomical Data Query Language	2.00		2.00 2.00 2.00 1.01 1.00
	IVOA SkyNode Interface	1.01		1.01 1.00
DaM	Simulation Data Model	1.0	1.0	1.0 1.0
	Space-Time Coordinate Metadata for the Virtual Observatory (STC)	1.33		1.33 1.34 1.30 1.21 1.20 1.10 1.00
	Data Model for Astronomical DataSet Characterisation	1.13		1.13 1.12 1.12 1.11 1.10 1.00
	Simple Spectral Lines Data Model	1.0		1.0 1.0 1.0 1.0 1.0
	IVOA Spectral Data Model	1.1	RFC	1.1 1.03 1.02 1.01 1.01 1.01 1.00
	Observation Data Model Core Components and its Implementation in the Table Access Protocol	1.0	RFC	1.0 1.0
GWS	IVOA Single-Sign-On Profile: Authentication Mechanisms	1.01		1.01 1.01 1.00 1.00
	VOSpace service specification	1.15	2.0	2.0 2.0 2.0 1.15 2.0 1.15 1.15 1.14 1.13 1.12 1.12 1.11 1.10 1.02 1.02 1.01 1.00 1.00
	IVOA Credential Delegation Protocol	1.0		1.0 1.0 1.01 1.01 1.00
	Universal Worker Service	1.0		1.0 1.0 1.0 1.0 1.0 1.0
	IVOA Support Interfaces	1.0	RFC	1.0 1.0 1.0 1.0 1.0
ReR	IVOA Web Service Basic Profile	1.0		1.0 1.0 1.0 1.0 1.0
	Describing Simple Data Access Services	1.0	1.0	1.0
	IVOA Identifiers	1.12		1.12 1.11 1.10 1.10 1.10 1.00
	IVOA Registry Interfaces	1.0		1.0 1.0 1.00 1.02 1.01 1.00
	Resource Metadata for the Virtual Observatory	1.12		1.12 1.12 1.10 1.10 1.01 1.01 1.00 1.00
	StandardsRegExt: a VOResource Schema Extension for Describing IVOA Standards	1.0	RFC	1.0 1.0
	VOResource: an XML Encoding Schema for Resource Metadata	1.03		1.03 1.02 1.02 1.01 1.00
VODataService: a VOResource Schema Extension for Describing Collections and Services	1.1		1.1 1.1 1.1 1.1 1.1 1.10	
Semantics	An IVOA standard for Unified Content Descriptors	1.10		1.10 1.10 1.06 1.05 1.03
	UCD1+ Controlled Vocabulary	1.23		1.23 1.22 1.21 1.20 1.20 1.11 1.11 1.10 1.02 1.00
	Maintenance of the list of UCD words	1.00		1.00 1.00 1.00 1.00
	Vocabularies in the Virtual Observatory	1.00		1.00 1.00 1.00 1.00
SDP	IVOA Document Standards			
VOE	Sky Event Reporting Metadata (VOEvent)			
VOT	VOTable Format Specification			

Good view reflecting Doc Repository full content
 Need another view with ONLY REC versions (dark green)

Standards into REC since last Interop



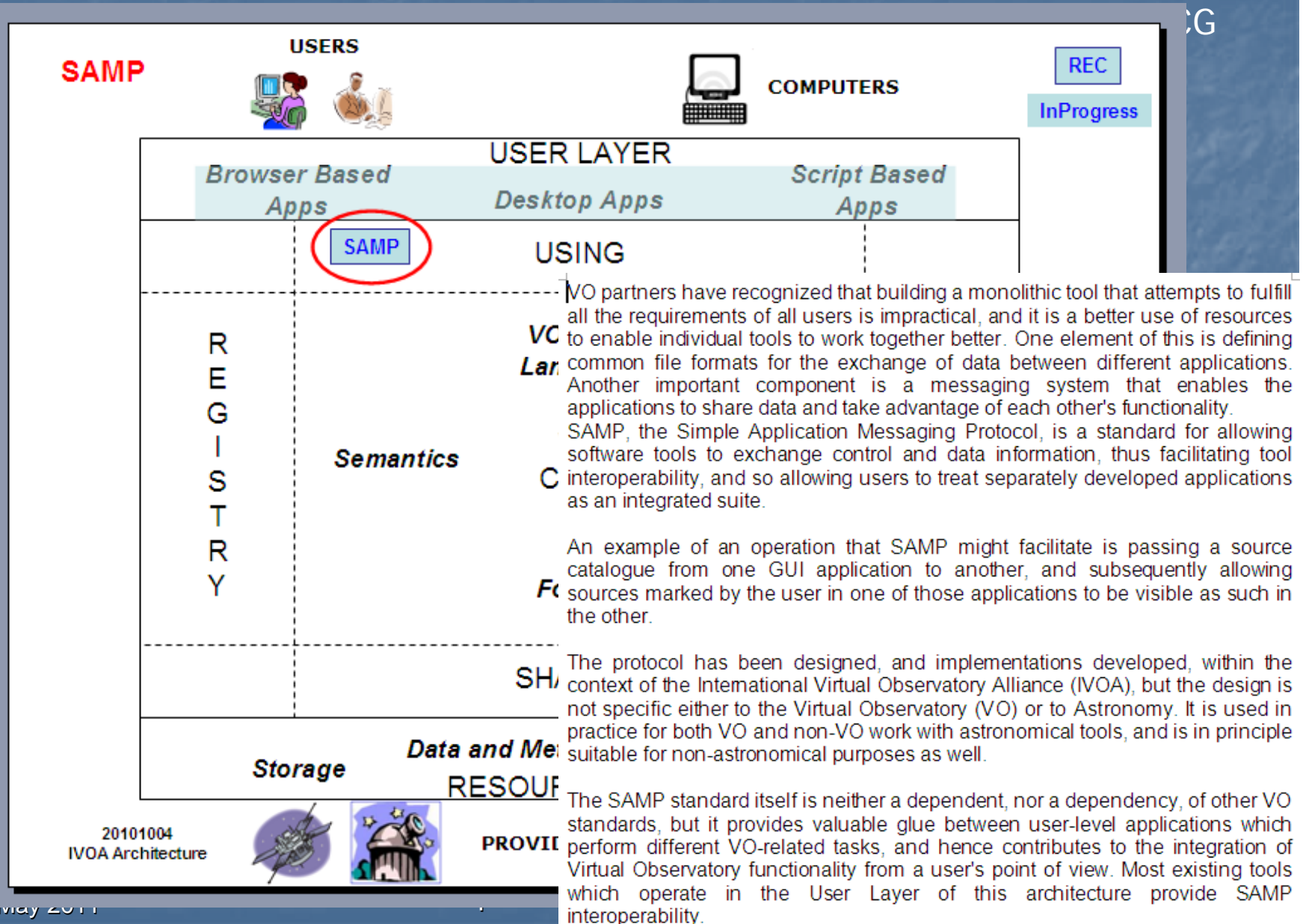
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- [GWS] Web Service Basic Profile 1.0
 - 16 December 2010

- [Apps] SAMP 1.2
 - 16 December 2010



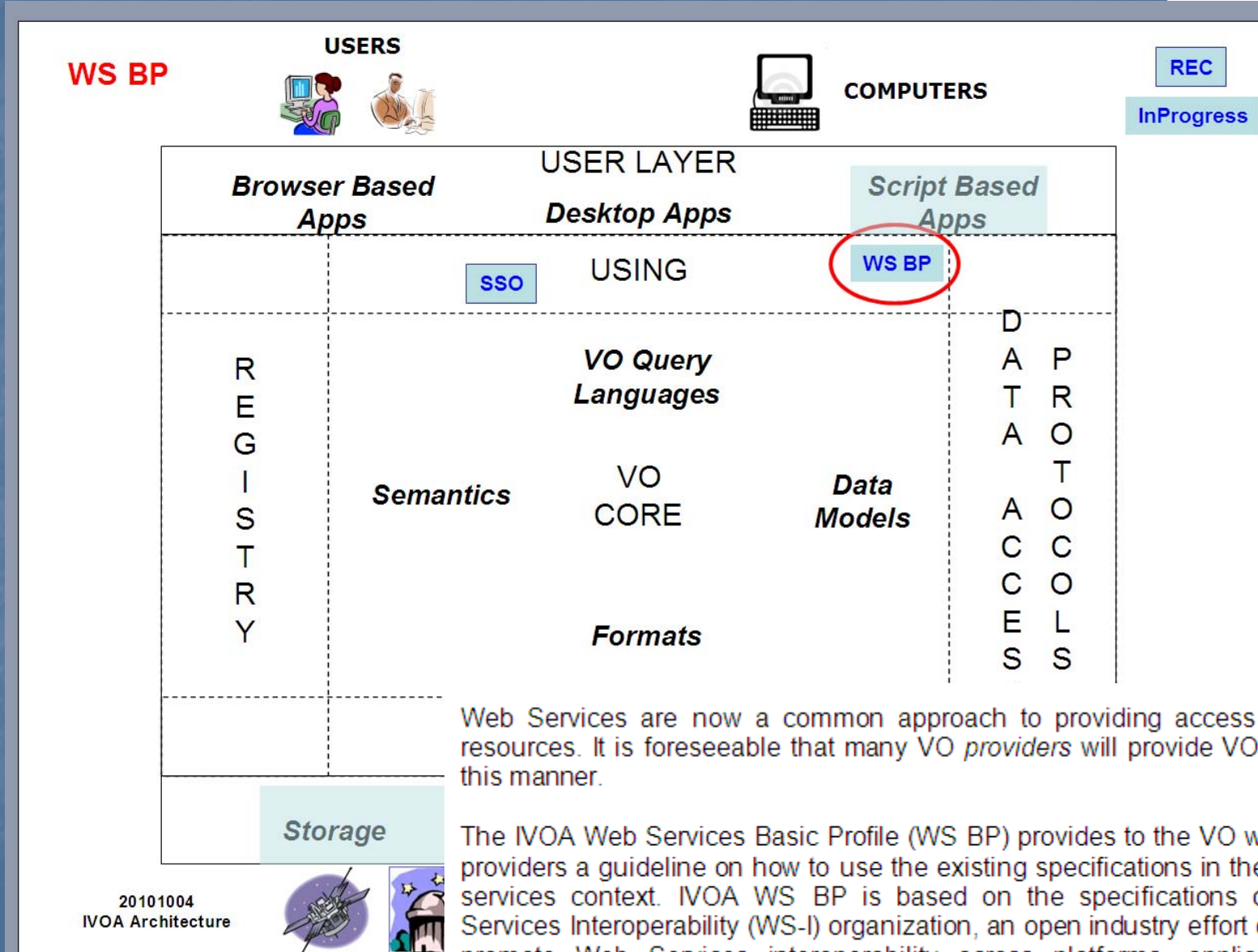
SAMP 1.2 – REC in Dec 2010



WS BP 1.0 - REC in Dec 2010



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Web Services are now a common approach to providing access to Internet resources. It is foreseeable that many VO providers will provide VO services in this manner.

The IVOA Web Services Basic Profile (WS BP) provides to the VO web services providers a guideline on how to use the existing specifications in the IVOA web services context. IVOA WS BP is based on the specifications of the Web Services Interoperability (WS-I) organization, an open industry effort chartered to promote Web Services interoperability across platforms, applications, and programming languages.

Existing IVOA REC standards - 1



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Standards	WG	Date	Comments
2003			
IVOA Document Standards v1.0	Standards & Process Committee	October 2003	IVOA Doc Std v1.2 in 2010
2004			
VOTable v1.10 VOTable Format Definition	VOTable	August 2004	VOTable v1.2 in 2009
2005			
UCD v1.10 An IVOA Standard for Unified Content Descriptors	Semantics	August 2005	
2006			
Maintenance of the list of UCD words v1.20	Semantics	May 2006	
VOEvent v1.11 Sky Event Reporting Metadata	VOEvent	November 2006	
2007			
Standards	WG	Date	Comments
IVOA Identifiers v1.12	Registry	March 2007	
Resource Metadata for the Virtual Observatory v1.12	Registry	March 2007	
UCD 1+ v1.23 The UCD1+ controlled vocabulary	Semantics	April 2007	UCD 1+ v1.3 expected in 2009
STC v1.33 Space-Time Coordinate Metadata for the VO	DM	October 2007	
SpectraDM v1.01 Spectral Data Model	DM	October 2007	

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

Existing IVOA REC standards - 2



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2008			
Standards	WG	Date	Comments
SSO v1.03 Single-Sign-On Profile: Authentication Mechanisms	GWS	January 2008	
VOSpace v1.02 VOSpace service specification	GWS	January 2008	VOSpace v1.15 in September 2009
VOResource v1.03 VOResource: an XML Encoding Schema for Resource Metadata	Registry	February 2008	
SCS v1.03 Simple Cone Search	DAL	February 2008	
SSAP v1.04 Simple Spectra Access Protocol	DAL	February 2008	
CharDM v1.13 Data Model for Astronomical DataSet Characterization	DM	March 2008	
ADQL v2.0 Astronomical Data Query Language	VOQL	October 2008	
2009			
Standards	WG	Date	Comments
SAMP 1.11 Simple Application Messaging Protocol	Apps	April 2009	
Vocabularies 1.16	Semantics	September 2009	
VOSpace 1.5	GWS	September 2009	Update from VOSpace 1.0
Registry Interface 1.01	Registry	September 2009	
SIAP 1.0 Simple Image Access Protocol	DAL	November 2009	
VOTable v1.2 VOTable Format Definition	VOTABLE	November 2009	Update from VOTable 1.10
CDP 1.0 Credential Delegation Protocol	GWS	November 2009	

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

Existing IVOA REC standards - 3



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2010			
Standards	WG	Date	Comments
TAP 1.0 Table Access Protocol	DAL	February 2010	
IVOA Document Standards v1.2	Standards & Process Committee	March 2010	Update from IVOA Document Standards v1.0
UWS 1.0 Universal Worker Service	GWS	October 2010	
VODataService 1.1	Registry	October 2010	
SSLDM 1.0 Simple Spectra Line DM	DM	November 2010	
SLAP 1.0 Simple Line Access Protocol	DAL	November 2010	
WS BP 1.0 Web Service Basic Profile	GWS	December 2010	
SAMP 1.2 Simple Application Messaging Protocol	Apps	December 2010	Minor updates from SAMP 1.11

More details can be found
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Standards to become REC soon



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On-going Recommendations (RFC period)

- [StandardsRegExt 1.0 RFC, 14/April/2011-14/May/2011](#)
- [SSAP 1.1 and SpectrumDM 1.1 RFC, 20/April/2011-17/May/2011](#)
- [ObsCoreDM 1.0 RFC, 3/May/2011-3/June/2011](#)
- [SimDM 1.0 RFC, 4/May/2011-4/June/2011](#)

On-going Recommendations (TCG Review)

- [VOEvent 2.0 RFC, 11/April/2011-06/May/2011, TCG Review 9/May/2011-6/June/2011](#)

On-going Recommendations (Exec Review)

- [IVOA Support Interfaces \(VOSI\) 1.0 RFC, 09/04/2010-14/05/2010, TCG Review 8/Dec/2010-7/Jan/2011, Exec Review from 13/May/2011](#)

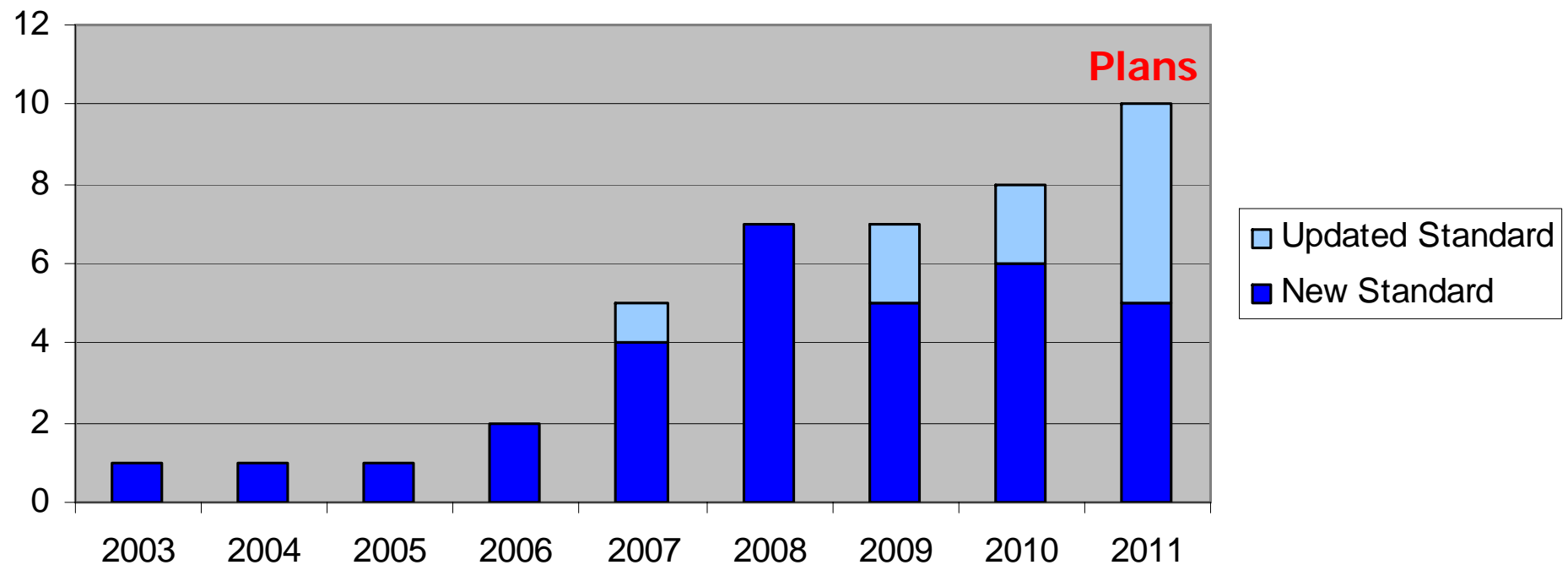
- More to start RFC soon after Naples
 - PhotDM 1.0, SAMP 1.3, VOspace 2.0
 - SSAP/SpectrumDM 1.2, Units?

IVOA Standards per year



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IVOA Standards issued per year



Naples Interop Program



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- Closer internal TCG coordination to setup this Interop program
 - Hopefully little “incompatibilities” between parallel sessions

- 2 new sessions “Splinter meetings, hack-a-thon”
 - Wed and Thu 16:30-18:00
 - Forum for dedicated focused discussions
 - Indicate them in the wiki page
 - <http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpMay2011Splinter>

Main upcoming TCG activities after Naples Interop



TCG

- REC process of various IVOA standards
- Update IVOA Technical Assessment and Roadmap 2011
- Update IVOA Architecture Note
- More regular teleconf
 - Every 2-3 month, keep the "pace"