IVOA Roadmap 2012

The IVOA in 2011: Technical Assessment and Roadmap for 2012

Version 1.0, *IVOA Note 2012-01-26*

http://www.ivoa.net/Documents/Notes/IVOATechRoadmap2011/index.html

F. Genova, EuroVO-ICE Technology Forum, 9-10 May 2012, Strasbourg

Status of priorities and RECs

- Science priorities: standards identified for the SED case should be completed early 2012

- Standards completed in 2011
  - IVOA Support Interface (VOSI) 1.0, GWS WG, May 2011
  - VOEvent 2.0, VOEvent WG, July 2011
  - ObsCoreDM 1.0, DM WG, October 2011 (SCSP)
  - SSAP 1.1, DAL WG, November 2011
  - SpectrumDM 1.1, DM WG, November 2011

- Standards completed in 2012
  - SAMP 1.3, App WG, REC 10 April 2012
  - StandardsRegExt 1.0, RoR WG, REC 28 April 2012
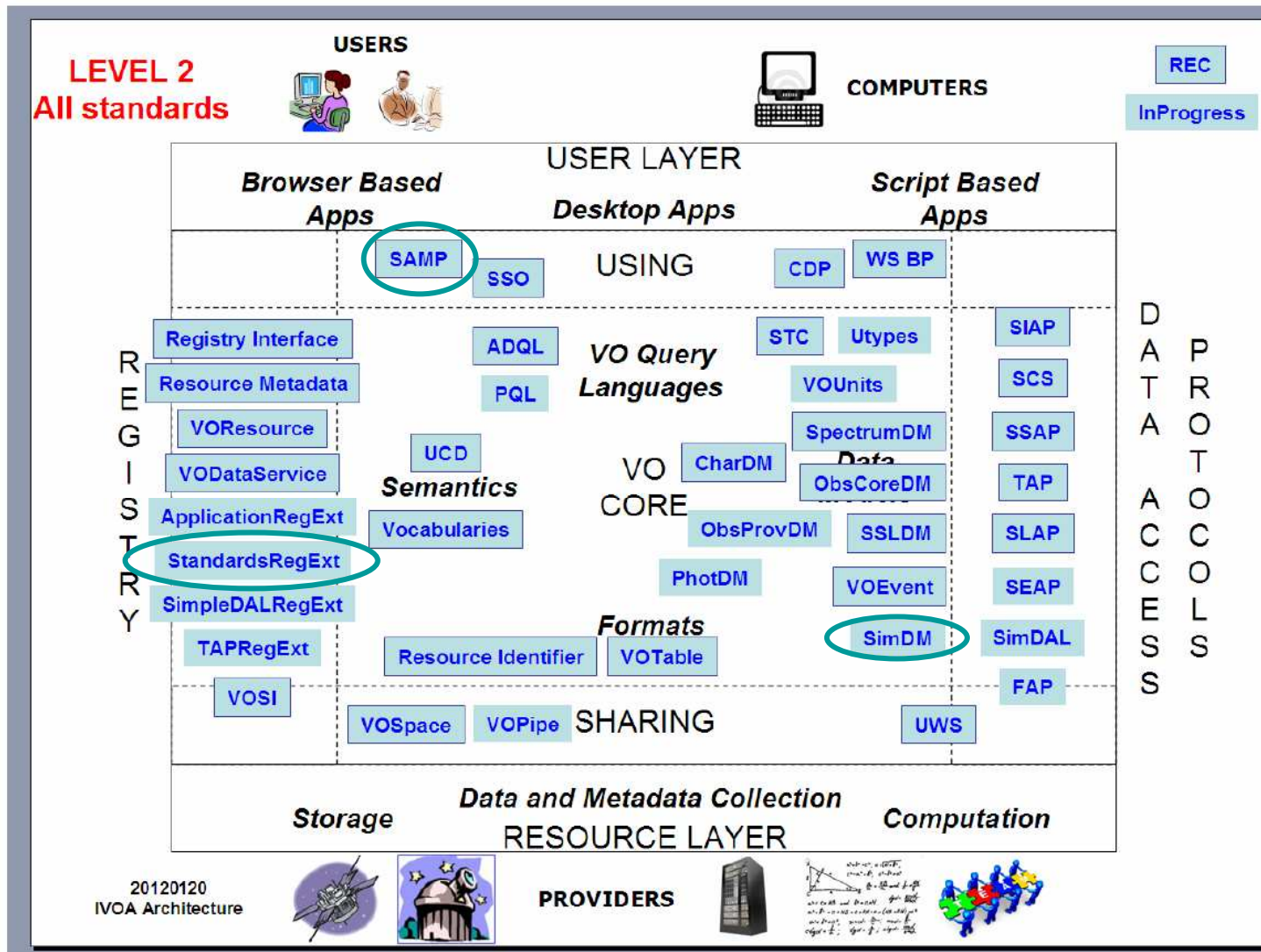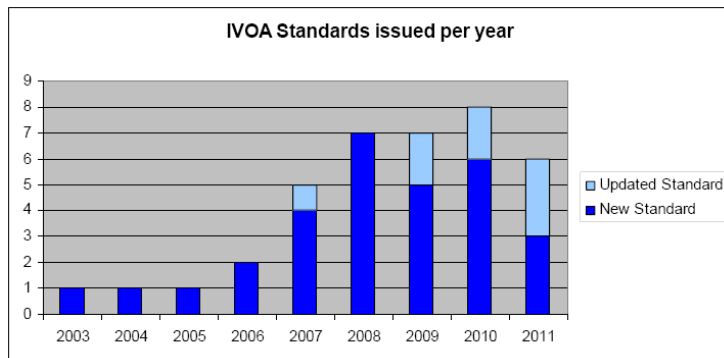 - SimDM 1.0, DM WG & Theory IG, REC 5 May 2012

Figure 1: IVOA Architecture Level 2

IVOA Standards issued per year

2012 (in progress)			
DALI 1.0 DAL Interfaces	DAL		
PQL 1.0 Parameter Query Language	DAL		
DataLink 1.0	DAL		
TAPRegExt 1.0	DAL		
SIAP 2.0 Simple Image Access Protocol	DAL		Update from SIAP 1.0
PhotDM 1.0 Photometry DM	DM		
Spectral DM 2.0	DM		Update from Spectrum DM 1.1 to accommodate PhotDM
Utypes 1.0	DM		
CharDM 2.0 Characterization DM	DM		Update from CharDM 1.0
ObsProvDM 1.0 Observation and Provenance DM	DM		
SED DM	DM		
VOEventRegExt 1.0	Registry		
SEAP 1.0 Simple Event Access Protocol	VOEvent / DAL ?		
VOUnits 1.0	Semantics		
VOSpace 2.0	GWS		Update from VOSpace 1.15
REST BP 1.0	GWS		
UWS 1.1	GWS		Update from UWS 1.0
UCD 1+ 1.3	Semantics		Update from UCD 1+ 1.23
SimDAL and SimDB Simulation Data Access Layer	Theory		

TCG tasks

- Coordination

- Completion of standards required for SED builder

- Architecture update two years after the initial version

- « VO publishing tools »

- Implementation feedback

- Collaboration with SC for Science Priorities

Standards : On-going development and update (1)

- VOTable 1.3 (managed by App WG) ?
- DAL WG
  - TAPRegExt 1.0 – *TCG review*
  - DALI – *WD February 2012*
  - DataLink
  - PQL - new WD?
  - ADQL?
  - (SIAP 2.0 after DALI, DataLink and PQL)?
  - Simulation Data Access Layer (with Theory IG)
  - Collecting use cases on Time Series

Standards: On-going development and update (2)

- ## DM WG
  - DM for SED Builder science case: SpectralDM 2.0 makes reference to CharDM, PhotDM 1.0, SED DM, TimeSerieDM TBD
    - PhotDM 1.0 – *WD October 2011*
    - SpectralDM 2.0
    - SED DM
  - Char DM 2.0
  - Utypes 1.0 (*one of the core VO components*!!)
  - ObsProvDM 1.0 (?)
  - Also SEAP (VOEvent), SimDAL/DB

Standards: On-going development and update (3)

- ## G&WS
  - VOSpace 2.0 – *PR? December 2011* (REST)
  - UWS 1.1
  - REST Basic Profile 1.0
  - Scientific Workflows
  - Note on working grammar for describing parameters and their constraints

Standards: On-going development and update (4)

- ## Registry WG
  - SimpleDALRegExt 1.0 – *WD September 2011*
  - VOEventRegExt
  - ApplicationRegExt
- ## Semantics WG
  - VOUnits 1.0 (*one of VO core components*!!) – *WD December 2011*
  - UCD1+ V1.3 (applying the defined procedure)
- ## VOEvent
  - SEAP 1.0 (to be coordinated by DAL)

Standards: on-going development and update (5)

- Theory
    - SimDAL/DB, S3 (DAL WG)
- Data Curation & Preservation
    - Data identifiers/data citations