



VIRTUAL ASTRONOMICAL OBSERVATORY

VOEvent WG

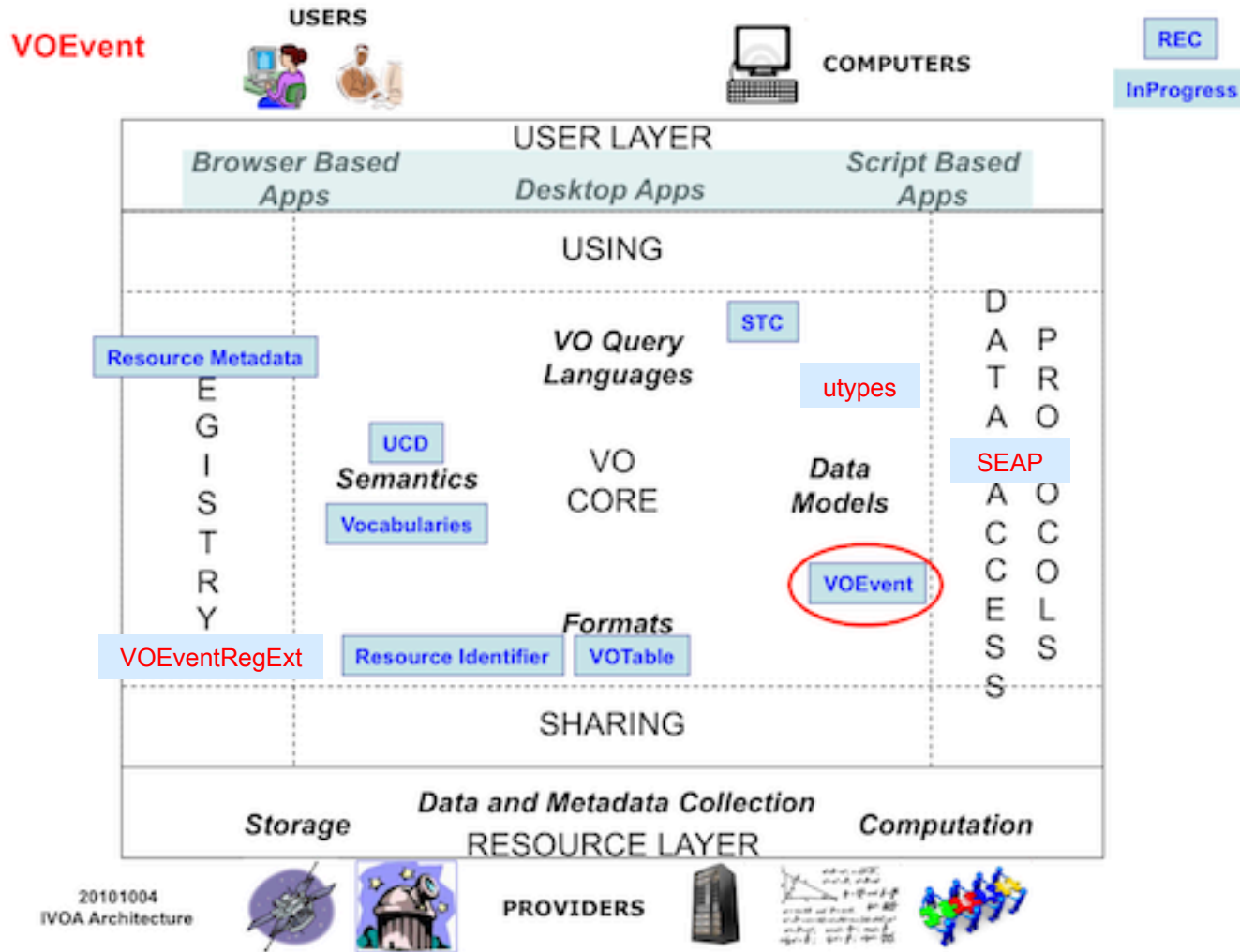
Rob Seaman, NOAO



The VAO is operated by the VAO, LLC.



VOEvent architecture





VOEvent Status

- VOEvent has been widely adopted (long list)
- With notable exceptions (eg, CRTS), these are prototypes for either:
 - Major future projects
 - Existing projects with significant investment in status quo
- Planning for third generation transport:
 1. VOEventNet (eg, VO-GCN -> robotic telescopes)
 2. SkyAlert (eg, CRTS -> iPhone)
 3. VAO transient facility (and IVOA partners)
- VOEvent 2.0 is gateway to advanced features
- An exercise in creative bootstrapping



Highlighted VOEvent 2.0 features

- <Tables> – (simplified & embedded VOTables)
- Time series as tables with utypes
- Stream discussion in preparation for Registry
- Transport description removed (Notes and/or Recs)
- <Param> generalized
- <References> generalized



VOEvent 2.0 PR status

- RFC period complete
- TCG period started
- Two reference implementations (plus v1.1 implementations)
 - Dakota (Bob Denny) – used by Bob’s customers
 - VOEventLib (Roy) – used by LIGO, LSST, LOFAR, ...
 - Mike suggests a broader IVOA discussion on what constitutes a reference implementation, if so, I suggest this not be retroactive
- Desire to complete Rec process expeditiously
 - VOEvent customers eager for uptake
 - Contingent SEAP & VOEvent Registry (VOEventRegExt) work
 - Want to focus again on transport and semantics



Current open VOEvent 2.0 TCG issues

- From breakfast discussion Sunday
 - Floating point formatting?
 - Nulls?
 - Both sound like broader IVOA issues to me
 - Intend to consult VOTable, W3C & IEEE usage
- Update spec with new architecture diagram
 - Utypes
 - SEAP
 - VOEventRegExt
- Add schema to spec?



Upcoming meetings *(tangentially pertinent)*

- *New Horizons in Time Domain Astronomy*
 - IAU Symposium 285 – Chairs Hanisch & Griffin
 - Workshop: *Transients in the VO* – Seaman, Williams & Murphy
 - 19-23 September 2011
 - Oxford, UK
 - <http://www.physics.ox.ac.uk/timedomainconf/>
- *The Decoupling of Clocks from Earth Rotation*
 - Colloquium on the redefinition of UTC (leap seconds)
 - 22-23 August 2011
 - Valley Forge, PA (Analytical Graphics, Inc.)
 - Chairs R. Seaman & J. Seago (web site pending)

