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Chair: [Tom McGlynn](#)Vice Chair: [Mark Taylor](#)

Applications Working Group Charter

The IVOA Applications Working Group is concerned primarily with the software tools that Astronomers use to access VO data and services for doing Astronomy.

The VO is enabling new ways of doing Astronomy. Interoperability between Astronomy data, services and software empowers astronomers to combine these for scientific discovery and analysis. VO Applications may take many forms such as GUI desktop applications, software libraries, web interfaces to services, or other innovative 'portals' to the VO. Legacy Astronomy software is becoming VO enabled and new and novel VO applications are being created. The IVOA Applications Working Group provides a means for VO Applications development and implementation to be closely linked to the standards development in the IVOA, and where necessary to propose and develop standards for VO Applications to interoperate.

The role of the Applications Working Group is to:

- Provide a forum for announcement and discussion of VO Applications
- Provide feedback to IVOA on the implementation of interoperability

standards in VO applications

- Identify missing or desirable technical capabilities for VO applications
- Identify missing or desirable components in terms of scientific usability
- Propose and develop standards specific to VO Astronomy-user-Applications

Organisation

The Applications Working Group is overseen by a chair and deputy chair approved by the IVOA executive. The chairs organise the interop meeting sessions, and fulfil the normal responsibilities of a WG chair for publishing proposed recommendations.

Standards proposed for development within the Applications Working Group are to be considered within the wider context of the IVOA, and care should be taken to interface appropriately with other working groups. Development of Applications Working Group standards is ideally done by small teams. These teams are required to make a mission plan and to report regularly to the group.

Interop Meetings

Applications sessions at Interop meeting will be organised for

- General discussion, announcement and demonstration of VO applications.
- Technical development of interoperability standards for VO applications.

News

Applications IG sessions at Interop Meetings:

- Oct, 2008: [InterOpOct2008Applications](#)
- May, 2008: [InterOpMay2008Applications](#)
- Sept, 2007: [InterOpSep2007Applications](#)
- May, 2007: [InterOpMay2007Applications](#)
- Sept, 2006: [InterOpSept2006Applications](#)
- May, 2006: [InterOpMay2006Applications](#)
- Oct 06, 2005: [InterOpOct2005Applications](#)
- May 17, 2005: [InterOpMay2005Applications](#)
- May 25, 2004: [InterOpMay2004Applications](#)

Links

Applications (Please add new links by editing this page)

[NVO List of Tools and Software](#)

[US National Virtual Observatory](#)

| | |
|----------------------------------|--|
| NVO DIS | Data Inventory Service (Datascope) |
| RVS | Remote Visualization System |
| VOIndia VOPlot | A tool for visualizing astronomical data |
| TOPCAT | Tool for OPerations on Catalogues And Tables |
| STILTS | Command-line tools for table/VOTable manipulation |
| Treeview | A viewer for hierarchical structures |
| NOAO VOTool | A VOTable Visualization and Editing Tool |
| CDS Aladin | Image and Catalogue tool |
| Bell Labs Mirage | Multi-dimensional visualization of data from VOTable |
| ESA VOSpec | A tool to handle VO compliant spectra through SSAP |
| VOSED | A tool for building Spectral Energy distributions |
| VODesktop | A resource-centered desktop client for VO: includes |

| | |
|---|--|
| | VOExplorer, Query and Task Runner, Astroscope, Myspace Browser |
| VisIVO | A Visualisation Interface to the Virtual Observatory |
| A list of Visualization Tools | VOTech Project DS6 survey |
| A Study On Existing Tools | VOTech Project |
| China VO VOFliter | VOTable Filter for OpenOffice Calc |
| VOTable2XHTML | XSLT Stylesheet for VOTable to HTML |
| SPLAT | Spectral Analysis Tool |
| SAADA | Auto-Configurable Database Generator |
| Octet | CVO Observation Catalog Exploration Tool |
| NOAO NVO Portal | NOAO Image Visualization Discovery Tool |
| NOAO WCSFixer | The NOAO Web-enabled IRAF Plate Solver |
| VO-CLI | Command-line Tools for the VO |
| AR Commandline | Python commandline VO tools |
| Applications Infrastructure | |
| Astro Runtime | Middleware that makes it simple to call VO services from programs and science scripts |
| Common Execution Architecture (CEA) | A methodology and toolkit for VO enabling legacy applications by publishing them as web services |
| Libraries and Parsers | |
| JAVOT (CalTech) | Java VOTable parser |
| SAVOT (CDS) | Java VOTable parser |
| STIL | Starlink Tables Infrastructure Library - Generic Java Table Handling for Astronomy |
| VOIndia C++ | VOTable parser |
| VOTable Parser (Caltech/Spitzer Science Center) | Java VOTable parser based XMLBeans |

| | |
|-----------|--|
| IDL VOlub | Libraries for using VO services (requires IDL 6.+) |
| VORuby | RUBY language libraries for using VO Services |

Protocols and Formats

[IVOA Standards Documents](#)

[PLASTIC - PLatform for AStronomical Tool InterCommunication](#)

Applications Standards Development

- [SampProgress](#)
- [ApplicationsMessaging](#) (historical interest)
- [Messaging Work Plan](#) (historical interest)

Mailing-list

- Applications Interest Group Discussion Forum [archive](#). (Email: apps@ivoa.net)

Documents

| | | |
|---|--------|----------|
| AIG report to IVOA Executive committee V0.1 | (.doc) | May 2004 |
| Table 2 for AIG Report | (.xls) | May 2004 |
| Querying heterogeneous datasets with Saada | (.ppt) | May 2006 |
| Saada demo presented at BEIJING | (.ppt) | May 2007 |