

## VPAC Capability Statement – for ANDS

The following capability statement covers the capabilities that VPAC can provide to ANDS, in collaboration with its Member Universities and other organizations such as VeRSI. The capabilities that VPAC can provide to ANDS are classified in a hierarchy, from basic hardware for data storage, to storage management and applications support. The capabilities described below are based on current VPAC employees and projects at VPAC that are “data-centric”, as opposed to “compute-centric” (though any project always has a blend of data and compute components). VPAC employs approximately 50 technical staff.

VPAC is involved in several major data projects, especially in the domain of Health Informatics

- ❖ Health Informatics: The MMIM project and its successor the Australian Cancer Grid (VPAC is a major contractor on this project, providing services ranging from Project management to software developer)
- ❖ VICNISS: Federation of hospital data sets for reporting on hospital acquired infection (being deployed across Victoria and designed and developed by VPAC)

VPAC also has major projects with data components in Engineering and Geospatial sciences.

### Data Hardware Capabilities (Storage)

- ❖ VPAC has a large NFS storage system with a major acquisition of new storage in progress (~100T)

### Data Management Capabilities (Filesystems management, authentication and authorization, distributed data systems) [~5 FTE]

- ❖ VPAC operates distributed sites at 4 locations, with major storage and compute resource across 3 of those sites (acting as a testbed for grid-enabled applications)
- ❖ VPAC manages authentication and access control and a national and internationally recognized Certificate Authority for the APAC Grid and its successor Pfc ICI
- ❖ Data set hosting

### Data Applications Development and Support [~6 FTE; J2EE and .NET]

- ❖ Web Portals and Content Management Systems (e.g, Plone, Drupal)
- ❖ XML (schema design, meta-data handling, validation, and transformation)
- ❖ Relational database design and deployment
- ❖ Image database applications, including geospatial data processing and integration (google-earth and ESRI tools)
- ❖ Tiered architecture design
- ❖ Meta data management tools

More information is available on our website ([www.vpac.org](http://www.vpac.org)).