

30 April 2019

Mr. Sandeep Shriyan  
Subcontract Manager - Energy & Propulsion  
Naval Group Australia

**Subject: Reference for IPACS for developing the platform for visualizing and optimizing the University's Remote Power Infrastructure**

The University of South Australia (UniSA) is a globally-focused, locally-engaged institution established on the dual principles of equity and excellence. With more than 33,000 students, the university is South Australia's largest and was the youngest Australian institution to be named in the top 50 of 2013 The Times Higher Education's Top 100 global universities aged under 50.

The University of South Australia's Facility Management Unit (FMU) manages the power infrastructure for six campuses spread across Adelaide and country South Australia. Each campus operates a separate production and energy management system. The FMU uses BACnet, a communications protocol for building automation and control networks and the Niagara Framework, a software platform that integrates all the data collected from the university's building assets

The University is continually seeking to increase equipment availability and reduce costs across all its assets. The FMU sought to investigate providing an interface that unified all their data collection using the industry standard OSI soft platform to provide an overview across all the large number of sensors distributed over a wide geographical area that generated production (SCADA) data. The FMU wanted this integrated interface to help them visualize and analyze all their SCADA data.

IPACS Australia led a project with these aims and demonstrated capability in

- Defining client's requirements and basic design and delivering the desired capability
- Undertaking detailed design through to execution
- Project planning and scheduling
- Delivering the technology on time and on budget

As a result of this project, the FMU was able to evaluate OSI soft based access and visualize and analyze real time data from across its extensive network of assets using the OSI soft platform. Using the technology it was shown to be possible to identify potential faults and incorporate specific alarm systems. The outcome is expected to be a significant reduction in the cost of maintenance of the University of South Australia's assets.

Yours faithfully



Associate Professor David Kearney  
Phone +61 4 02700274  
Fax +61 8 8302 3381  
Email [David.Kearney@unisa.edu.au](mailto:David.Kearney@unisa.edu.au)

**School of Information  
Technology & Mathematical  
Sciences**

D Building  
Mawson Lakes Campus  
Mawson Lakes  
South Australia 5095

GPO Box 2471  
Adelaide  
South Australia 5001  
Australia

t: +61 8 8302 3582  
f: +61 8 8302 3381

[www.unisa.edu.au](http://www.unisa.edu.au)

CRICOS Provider Number 00121B