



## OPC UA DELIVERS REAL-TIME DATA

### About Symboticware

Symboticware offers real-time intelligent monitoring systems that operate in rugged environments. The SymBot platform offers bi-directionality, store-and-forward capabilities, data-standardization and remote configuration.

The SymBot has been used to monitor engine, air quality, production and maintenance data in mines; weather data in the northern reaches of Canada; water quality data on several lakes; and as an asset tracker. These situations place the SymBot under many different types of duress including extreme heat, cold, shock and vibration. Customer base includes some of the industry leaders in mining, research and mining innovation.

### SymBot Platform

The SymBot is a ruggedized, versatile device used for data collection. The SymBot runs Java and C/C++ based software to collect, process, log and forward data. The SymBot has built in support for analog and digital I/O, Modbus, CANbus, OPC UA, satellite communication and Wi-Fi access.

An OPC UA server was added to the SymBot platform to better meet the needs of our customers in the mining sector. It allows us to communicate with the SymBot via an OPC client and see real-time data being collected in the mine. This allows our customers to monitor and log air quality, production, machine location and various other parameters in real-time from surface.

In a recent application, a SymBot was placed on several underground mining vehicles used for pro-



duction needs in mines. The SymBot was used to relay air quality and engine data to the surface. In a mining based application, wireless connectivity is intermittent and often not available for extended periods of time. We also had to account for the sudden loss of power that would occur when the engine was shut off. The Prosys OPC UA Java SDK allowed us a lot of flexibility in creating our OPC UA system. Prosys gave us the capability needed to implement a store-and-forward system, within the components of their OPC UA Java SDK, to ensure that all of the collected data was delivered to surface.

## Prosys OPC UA Java SDK

Symboticware chose Prosys because of their excellent reputation for customer support and their ability to function within a Linux based operating system. The support team at Prosys has been very responsive and provided excellent service. They have answered our questions very promptly and thoroughly. Prosys was also very accommodating in implementing requested features into their SDK.

From a software development standpoint, the Prosys OPC UA Java SDK was very easy to comprehend and implement. Prosys also provided thorough examples and documentation on their product that allowed us to implement a server and a testing client in a timely manner. The Prosys OPC UA Java SDK has been very reliable and has performed very well in our system benchmark testing.

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