



## MKS Toolkit Case Study

### logica

#### Logica Taps MKS Toolkit for Water Utility Application Port

Software integrator and systems house Logica has a solid reputation for working closely with the water industry. Its MC2000 telemetry solution enables water utilities - and gas companies, too - to collect monitoring and measurement data from remote sites around broad-spread catchment areas in real-time. For example, a water company with numerous reservoirs many miles apart will be monitoring each one for chemical levels, water levels, leakage, etc. The combined data provides controllers with an instant picture of exactly what is happening around the catchment area - enabling sufficient quantities of clean, healthy water flowing into our taps.

The scale of deployment of MC2000 is large - Anglian Water uses it to provide approximately 300,000 points of information from 7,200 sites - and is therefore suited to a heavy-duty, UNIX platform. Although Logica has many satisfied customers, the company made a decision to develop a 'lighter', Windows version of MC2000 to run in parallel.

"We felt that there was another market that would be keen to deploy a scaled down version," explained MC2000 Product Manager, Robert Longson. "District-based water companies need to measure their assets in the same way, but on a smaller scale. Obviously, their operational budgets are also smaller than the 10 main water 'PLCs' in the UK - so a smaller scale version of MC2000 available at a lower cost, and running on a Windows PC would be very attractive to them."

Logica's first step was to undertake a thorough evaluation of available porting tools. From the outset, re-writing the code was not a viable option: it is a complex program, managing the companies asset base in real time at over 7,000 sites. Logica was reluctant to build it again from scratch, and jeopardize any proven functionality or integrity - and this also would take too long to bring to market.

#### Strong Support from Scientific Computers

"Our analysis showed that MKS Toolkit for Enterprise Developers (formerly NuTCRACKER), a UNIX to Windows porting tool from MKS Inc., was clearly ahead of the market. It was the only alternative we seriously considered," confirms Robert Longson. The evaluation process showed MKS Toolkit for Enterprise Developers to be extremely flexible; for example it allowed Logica to use Win32 native timers in the UNIX code - something no other porting tool could offer and crucial to a real-time telemetry system.

Before the practical evaluation of the tool began Scientific Computers, the master reseller for MKS Toolkit in the UK, spent a day with Robert's team at Logica planning the trial port. "This was invaluable to us," says Robert "And the evaluation was made even easier by the thorough reports we had drawn up at the outset. We knew exactly how we wanted the Windows version of MC2000 to function, so we could provide precise expectations of the product to Scientific Computers. It made everybody's task so much more straightforward".

"Inevitably, there were a few minor teething troubles as the port began. Proactive support from Scientific Computers soon addressed these. During the port only one real problem was encountered - that some pre-set limits restricted our ability to have 150 plus tasks running simultaneously. We were very impressed that this was so easily solved by Scientific Computers, who ensured this was fed into the next release of MKS Toolkit. The product is evolving within proven customer requirements." Graphical tools were also tailored to ensure that the required Command Line utilities were available within Windows.

#### Windows Sale Already Achieved

The decision to deploy MKS Toolkit was soon made by Logica, and so MCLite was born. The port was quickly achieved, without any compromise on quality or integrity. "We are pleased to report that the first sale - to an Irish county council -



was made within a few months of the project's completion. Once the 'flagship' deployment there is complete, we are confident that many other companies will be eager to use MCLite too," reports Robert.

Because the two versions, UNIX and Windows, still share the same source code, there is also potential for larger water companies who already use MC2000, to run the streamlined Windows version alongside. Indeed, an Australian utility is currently evaluating the 'new' product to complement its existing MC2000 system. A two-handed deployment provides both a macro and a micro view of assets, without any compatibility issues or data mismatches between the two systems.

### For more information About Scientific Computers:

Scientific Computers  
 Jubilee House, Jubilee Walk  
 Three Bridges, Crawley  
 West Sussex RH10 1LQ  
 United Kingdom  
 Tel: (+44) (0) 1293 403636  
 Fax: (+44) (0) 1293 403641  
 Website: <http://www.scl.com>

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#### Corporate Headquarters

410 Albert Street  
 Waterloo, ON N2L 3V3  
 Canada  
 tel: 519 884 2251  
 fax: 519 884 8861  
 sales: 800 265 2797

#### Worldwide Offices

Fairfax, VA  
 tel: 703 803 3343  
 fax: 703 803 3344  
 sales: 800 637 8034

Burlington, MA  
 tel: 781 359 3300  
 fax: 781 359 3399  
 sales: 888 934 7268

Lombard, IL  
 tel: 630 495 2108  
 fax: 630 495 3591  
 sales: 800 633 1235

Germany  
 tel: +49 711 351775 7522  
 fax: +49 711 351775 7555

United Kingdom  
 tel: +44 1483 733900  
 fax: +44 1483 733901  
 sales: +44 1483 733919

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