

## High integrity TCP/IP stack

Validated software and high performance in one stack

*Tamworth, Staffs, May nn.* Developers who are creating high-integrity embedded systems now have available a TCP/IP stack that is validated as meeting MISRA-C coding guidelines. The new stack, developed by advanced middleware company HCC-Embedded, is available in the UK from safety critical and high reliability specialists, Phaedrus Systems.

“Since most embedded systems today require connectivity, a TCP/IP stack is essential,” said Chris Hills, CTO of Phaedrus Systems. “Now developers have the HCC stack, confident that it is not only MISRA-C compliant but that it provides outstanding packet throughput.”

Following the MISRA-C guidelines and using coding standards tools has become an accepted approach for developers of high integrity systems. But there is a dilemma with middleware: buying a pre-written stack it is not possible to guarantee compliance with the guidelines, while writing a stack is time consuming and there is no guarantee that it would be an efficient implementation. The HCC TCP/IP stack resolves both issues. It comes with full MISRA-C compliance documentation developed using the LDRA advanced verification tool suite. And it is a very efficient implementation of TCP/IP, combining high speed throughput (up to 4X comparable implementations) with low system resources (around 14K ROM and as low as 12K RAM). It is highly portable and drivers are already available for most popular architectures from ARM, Atmel, Freescale, Microchip, NXP, ST, Renesas and T.I.

The HCC-Embedded TCP/IP stack is available now.

### **About Phaedrus Systems**

Phaedrus Systems Limited is the UK's leading specialist in the support of engineers at all stages of embedded safety-critical and high-integrity projects. Tools available include requirements capture for ISO 26262, IEC 61508, EN 50128 and nuclear applications, a SIL3 RTOS and compiler validation reports. Consultants have experience working on automotive, rail and aerospace applications, meeting standards such as IEC 61508 SIL4, and DO178B. Backing these is a wide range of other relevant embedded tools.

Independent advice is strengthened by the company's founder being an active participant in several standards bodies, including ISO C, C++ and IEC 61508-3, and a principal author of MISRA-C:2004. Phaedrus Systems is based in Tamworth, Staffordshire. More information is available on the website [www.phaedsys.com](http://www.phaedsys.com)

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