Embedded databases for safety-critical applications

Tamworth, Staffs, 7 July 2009 — Phaedrus System is now distributing the *eXtreme*DB™ and Perst™ embedded database management systems (DBMSs) from McObject.

“In its partnership with Phaedrus Systems, McObject is excited to be working with a company that possesses in-depth knowledge and experience, and a long track record, in the safety-critical market. *eXtreme*DB’s presence in this application category is already strong, with deployments including nuclear power generation, oil and gas pressure control, and fault-tolerant telecom and networking. We expect to build this list substantially through our cooperation with Phaedrus Systems,” McObject Chief Operating Officer Chris Mureen said.

“McObject’s *eXtreme*DB continues our programme of assembling all the tools an engineer working on a safety critical system requires,” said Chris Hills, founder and CTO of Phaedrus Systems. “In particular, the *eXtreme*DB High Availability edition, with the high level of security from multiple, fully synchronized databases, is an exciting tool for our any one building high reliability embedded systems.”

Ends

Notes for editors:

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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 IEC 61508, EN 50128 and nuclear applications; requirements tracking and competency tools; estimation software; a SIL3 RTOS; a hi-rel embedded database; compiler validation reports and reliability/failure software. Consultants have experience working on automotive, rail and aerospace applications, meeting standards such as IEC 61508 SIL4, and D0178B. 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

About McObject

Founded by embedded database and real-time systems experts, McObject offers proven data management technology that makes applications and devices smarter, more reliable and more cost-effective to develop and maintain. McObject counts among its customers industry leaders such as Chrysler, Maximizer Software, Siemens, Phillips, EADS, JVC, Tyco Thermal Controls, F5 Networks, DIRECTV, CA, Motorola and Boeing. McObject, based in Issaquah, WA, is committed to providing innovative technology and first-rate services to customers and partners. The company can be reached at +1-425-888-8505, or visit www.mcobject.com.

About *eXtreme*DB

McObject's *eXtreme*DB provides a highly portable database management system that meets the unique performance requirements and resource constraints of embedded systems and intelligent, connected devices. *eXtreme*DB provides critical data management features—-including transactions, concurrent access, and a high-level data definition language—-while maintaining a code footprint as small as 50K. *eXtreme*DB is available as a standard in-memory database system (IMDS) and in editions offering high availability, hybrid in-memory/on-disk data storage, kernel mode data management, 64-bit support and more. McObject's Perst is an open source, object-oriented embedded database, available for Java and .NET, including Java ME and .NET Compact Framework. CA's Wily Technology credits Perst with delivering a shortened development cycle and a ten-fold performance improvement within its real-time Java application.

*eXtreme*DB has a streamlined design, which eliminates principle sources of database performance overhead such as disk and file I/O, caching, and data transfer and duplication. The powerful result delivers the data sorting, storage and retrieval needed to support advanced application features, without the latency and unpredictability that have often ruled out the use of DBMSs in safety-critical real-time software tasks.

*eXtreme*DB High Availability edition enables deployment of multiple, fully synchronized databases within the same hardware device or across multiple, widely distributed systems, with automatic failover. *eXtreme*DB's unique type-safe application programming interface (API) eliminates data-typing errors, a common source of run-time bugs.