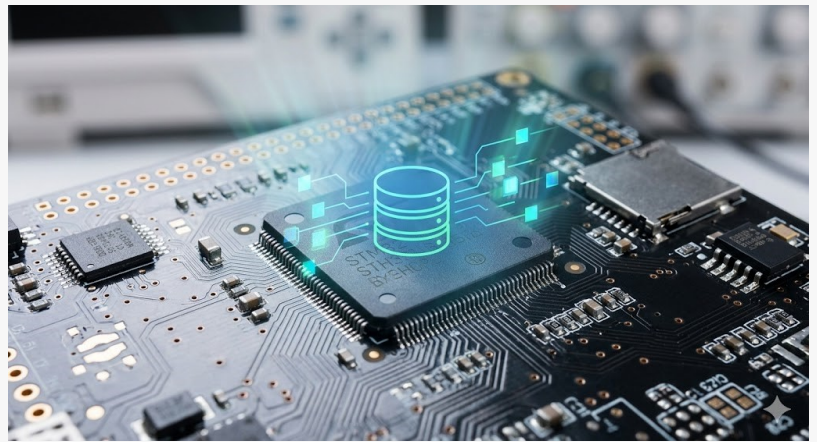


eXtremeDB/rt, the Only COTS Hard Real-Time DBMS, Slashes Memory Footprint and Advances Flash Simulation Capabilities

*The latest DBMS technology is optimized for *hard* real-time systems with expanded hardware support, advanced storage simulation and enhanced LWIP connectivity.*

SEATTLE, WA, UNITED STATES, June 9, 2026 /EINPresswire.com/ -- McObject®, developer of the innovative eXtremeDB® embedded database management system, today announced the latest service release of [eXtremeDB/rt](#). Designed specifically for deeply embedded and hard real-time systems, this release delivers a significantly reduced memory footprint, sophisticated hardware-free storage simulation, and broader hardware and networking support to streamline the development of deterministic applications.



Hard real-time data management on flash storage

The logo for eXtremeDB/rt features the word "eXtremeDB" in a black sans-serif font, followed by "/rt" in a red sans-serif font. A red curved line, resembling a stylized 'x' or a swoosh, is positioned to the left of the text.

Key enhancements in the new eXtremeDB/rt release:

- Minimized runtime footprint to address the stringent limitations of resource-constrained environments and give licensees the means to reduce hardware BOM cost. In its labs, McObject has demonstrated that a 1 GB database on flash can operate with as little as 40K memory allocated for meta data, cache and stack.
- Lowering memory requirements directly improves system scalability and guarantees the strict determinism required by deeply embedded systems.
- Hardware-free [flash simulation](#): The extended flash simulator now features transaction file mapping, allowing developers to evaluate database access parameters across a comprehensive range of storage layouts—including raw flash devices, managed NAND, eMMC, and SD cards. Engineering teams can now analyze and tune flash access behavior and cache settings early in the development cycle, long before target hardware is available.



The best of both worlds: a leaner, faster database engine that preserves precious RAM, paired with simulation tools that lets developers optimize their storage architecture on day one."

Andrei Gorine, McObject CTO

- Expanded hardware support: Core runtime support has been broadened to seamlessly integrate with new hardware platforms and standards:
 - o STM-based boards: Enhanced native compatibility with popular STMicroelectronics microcontrollers.
 - o Full ONFI Specification Support: Simplifies NAND flash integration via a standardized interface for device identification, geometry discovery, and low-level operations.
 - o SD Cards in SPI mode: Enables low-cost removable or onboard flash storage on microcontrollers without

dedicated SDIO interfaces.

- Upgraded embedded connectivity: The integrated [EWSlite](#) lightweight web server framework has received significant updates, most notably adding native support for LWIP (Lightweight TCP/IP). This allows resource-limited platforms to maintain secure, stable HTTP-based connectivity and remote access services without bloating processing overhead.

Driving Innovation in Real-Time Data Management

"As embedded devices become more sophisticated, the pressure on memory and development timelines has never been higher," said Andrei Gorine, CTO of McObject. "This service release of eXtremeDB/rt gives developers the best of both worlds: a leaner, faster database engine that preserves precious RAM, paired with simulation tools that let them optimize their storage architecture on day one, rather than waiting for physical hardware prototypes."

The new service release of eXtremeDB/rt is available immediately. For more information, technical specifications, or to request an evaluation version, visit www.mcobject.com/rt.

About McObject

Founded by embedded database authorities, McObject offers proven, reliable data management technology. The eXtremeDB product family delivers institutional-grade data management features, unparalleled speed, and an incredibly small footprint. Deployed in millions of embedded systems worldwide, eXtremeDB is the trusted choice for aerospace, defense, telecommunications, industrial automation, and financial markets.

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