

# SELECTING AN EMBEDDED RTOS



## FEATURED INTERVIEW:

EXCERPTED FROM [WWW.EG3.COM](http://WWW.EG3.COM)

*Prepared by:*

eg3.com

Jason McDonald, Senior Editor

eg3.com

tel : 510.713.2150

email : [info@eg3.com](mailto:info@eg3.com)

web : <http://www.eg3.com>



## RADISYS - RTOS PRODUCTS &amp; SERVICES, 2009

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INTERVIEWEE. LINDA XIAO  
 DIRECTOR, OS-9  
 TEL. 503-615-1394  
 EMAIL. linda.xiao@radisys.com  
 COMPANY. RADISYS CORPORATION  
 WEB. <http://www.radisys.com/>

- Q. First of all, tell us a little bit about yourself and your responsibilities at Radisys.**
- A. I am a director of *OS-9* Business Group, at Radisys. I am responsible for *OS-9* general business management. That includes sales, marketing, services and product development.
- Q. If you would, please give us a very brief, bulleted outline of your products. What sorts of real-time operating systems (RTOSes), tools, and/or services does your company offer?**
- A. Radisys is a total solution system provider. We offer a real-time operating system, called *OS-9*. Around *OS-9*, we offer the following product and services:
- *OS-9* for 11 processor families
  - *Hawk Integrated Development Environment (IDE)*
  - *HawkEye*, a visualization development tool for fast debugging and performance enhancement
  - *Real-time Hypervisor*, which is used to support multi OSes over multicore or hyper-threading CPUs
  - *XiBaseGUI*, an advanced graphical design tool
  - *FieldBus suite* for industrial automation and medical instrument applications
  - *File System suite* for secure file, flash management, etc.
  - *Communication suite* for networking, IPSec, WLAN features
  - Integrated board level solutions for Radisys X.86 COMe or SBC hardware
  - Board level solutions for many industrial standard boards
  - System design and professional service for industrial automation applications
- Q. What is Radisys's "unique value proposition" for the embedded systems engineer or programmer who is considering an embedded RTOS? What do you and your products do to help him get his product to market faster, cheaper, better?**
- A. - A highly reliable, feature rich and industry proven RTOS

- A high performance RTOS with real-time at nsec to usec level IRQ
  - A modular architecture based RTOS that can be tailored to specific applications from small footprint (100KB) to complete industrial automation systems
  - A complete development-tooling package (compiler, debugger, profiler, visualization) for speedy product development
  - A solution based product offering that is fully integrated and tested with hardware, OS, special drivers and middleware for fast development and low cost total ownership
  - A comprehensive virtualization offering to allow RTOS and GPOS coexisting over a single processor board for optimal feature and performance result
- A system design capable team that can offer professional services to shorten customer design cycle or to optimize customer's system design

**Q. How are you different as a company from competitors? What sets your products apart from those of other RTOS companies?**

- A. - High precision and real-time performance
- Industry proven reliability and over 20 years of history in mission critical applications
  - Modular architecture – well balanced between performance and security for an OS
  - Small footprint, as small as 100KB
  - Fast reboot, as low as 1 sec
- Capable of offering one-stop-shop solution combining with Radisys embedded board solutions

**Q. What embedded architectures do you support - e.g., Intel architecture, MIPS, ARM, PowerPC, etc.?**

- A. We support the following families: 68k, MIPS, SH3/SH4, ARM, PPC, X.86, ColdFire, Xscale.

**Q. What additional software do you offer such as networking, file systems, TCP/IP, security, IDE, GUIs etc.? What about development tools? Are there particular partnerships with other software companies that are especially helpful?**

- A. The following are the homegrown features: all networking support (TCP/IP, IPSec, WLAN), IDE, GUI, file systems. We do partner with other vendors for more advanced file systems, GUI, fonts.

**Q. How are your products sold? What is a typical fee arrangement? Is it royalty free? Per unit royalty?**

- A. We are flexible on fee structures. Most of the time, there is a fee with IDE and OS license upfront and then customers pay run-time license per system after they finish the development. However, we also offer the royalty free type of the arrangement with front-end based license fee when customers prefer to do so. Additionally, we also offer fully integrated HW and SW systems so that fee is charged on a complete package basis.

**Q. Finally, what sort of “try before buy” experiences does your company offer? Are there free demo downloads, webinars, seminars? What web URL’s can you point us to for more information?**

A. We offer free 60-day demo. Customers can go to <http://www.Radisys.com/> to send us a request. After validation with the customer, we will provide an ftp link for customer to download the trial version.

**Q. Thank you for this interview.**