

**RTOS Microware OS-9 Version 6.1 with embedded graphics XiBase9****- Operate machines in real time, locally and in web browsers -**

IoT and Industry 4.0 require new approaches to operate machines. In addition to local human machine interfaces at the machine, web-based services to manage and survey functions remotely are a key ingredient to move forward in industrial automation applications. Fast, reliable and secure communication infrastructures, established browser technology and smart devices are the foundation for location independent man machine interaction. A technological challenge is to create a local and browser-based visualization for that environment, to accommodate typical embedded systems that are usually not designed as graphic power horses. For that XiSys Software, known for its for decades industrial proven embedded graphics solutions XiBase 9, has developed a hybrid server, which combines both functionalities very efficiently.

The RTOS Microware OS-9 Version 6.1 complements XiBase9 especially if system reliability, fast boot sequences and fast responses on external events are application requirements. The structured architecture of OS-9 allows small footprint designs at cost effective project and product costs.

**Overview on the key features of the new XiBase9 with the RTOS Microware OS-9:**

- WEB visualization supported by common browsers like, Edge, Chrome, Firefox, Internet Explorer, Opera or Safari.
- The basis of the Man Machine Interface on the smart devices are standard HTML5 technologies like WEB sockets, canvas objects or java script. No special and dedicated apps, plug ins or cookies are required.
- Safe communication is provided by SHA1 encryption
- Automatic support of local user interface, e.g. touch, multi touch
- Supports individual, animated objects
- Allows small system footprint, e.g. low power, high performance, cost effective designs
- Local graphics available for ARM, PowerPC and x86 CPU architectures
- Offers fast and reliable real time system capabilities for precise control and measurement requirements

- Fast boot sequences of, e.g. 2 secs from system reset to a running graphic app have been shown
- XiBase9 and Microware OS-9 have been proven for many years in industrial grade applications.



Since February 2013 Microware OS-9 is owned by a partnership of three companies, MicroSys, Freestation (Japan) and RTSI (USA). They have formed Microware LP ([www.microware.com](http://www.microware.com)) to actively continue the development on OS-9. Recent developments already provide support for ARM Cortex A8 and A9 cores with NXP's latest i.MX5x and i.MX6 CPUs.

### About MicroSys

MicroSys Electronics GmbH, located in Sauerlach close to Munich, designs and manufactures since more than 30 years customer specific hardware and system solutions for embedded industrial applications. Besides standard environmental profiles, the systems can be engineered to meet the enhanced requirements for aerospace, defense, chemical or harsh industrial applications. The MicroSys System on Modules architecture based on the miriac<sup>®</sup> MPX specification supports mainly the NXP ARM and Power Architecture CPU portfolio as well as industrial bus standards like VME or CompactPCI.

Supported operating systems are for example the own RTOS Microware OS-9, Linux, VxWorks or QNX. Communication infrastructures as CAN, EtherCAT, Profinet, FlexRay or ARINC are part of the portfolio as well. MicroSys is known for its sound experience in the areas of system design, software integration, project management, customer specific solutions and offers support locally.

### About XiSys Software GmbH

XiSys Software GmbH was founded in 1994 and has specialized to provide graphical user interfaces for embedded system platforms. XiBase9, the current product line, supports the operating systems Linux, Microsoft Windows<sup>®</sup> and Microware<sup>®</sup> OS-9 by MicroSys. It is supported on

processor families like NXP's 68k, Power and Layerscape Architecture, Intel x86 compatibles, SuperH or ARM and has been successfully deployed in numerous projects around the globe. XiSys Software GmbH is a member of the association Embedded4You ([www.embedded4you.com](http://www.embedded4you.com)). E4You members jointly develop market and sell innovative embedded system solutions.

Die XiSys Software GmbH and MicroSys are members in the association Embedded4You e.V. ([www.embedded4you.com](http://www.embedded4you.com)).

Within E4You they are involved in joint projects, research work and in the creation of technological innovations.

Die XiSys Software GmbH exhibits on the mbedded world 2018 in hall 4 / 4-338 and the MicroSys booth is in hall 4 / 4-340.

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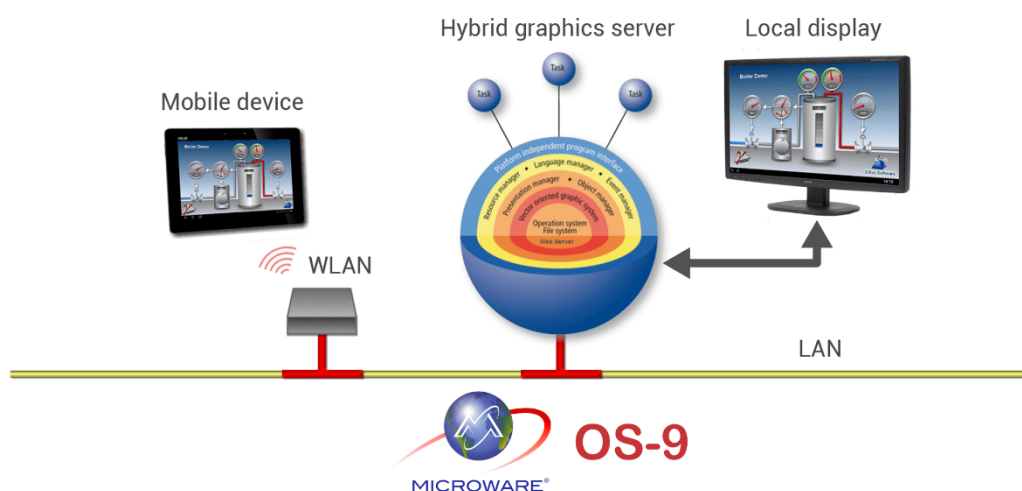


Fig 1: XiBase9 embedded graphics, local and browser interfaces on top of the RTOS Microware OS-9