

### Client › Eusotec

#### The Challenge:

Help Eusotec develop a cost-effective yet versatile web server that would allow wireless data logging, monitoring and alerting for systems not connected to the Internet.

#### The Solution:

Embed either the Lantronix WiBox® or WiPort® device server to enable PC-independent remote monitoring systems for a variety of applications.

#### The Result:

The Eusotec Mini-Data Logger and Web Server facilitated Eusotec's entry into new markets, including weather stations and M-Bus-compatible utility devices.

“Lantronix helped us develop very cost-effective products that we believe will be in great demand.”

**Kai Rohleff,**  
Master Computer Scientist

#### The Challenge: Serving Up PC-less Data Logging, Monitoring and Alerting

Founded in 2001 by Ulrich Dannecker and Kai Rohleff, Eusotec GmbH is a Freiburg, Germany-based software engineering and consulting firm specializing in Windows-based applications and individual embedded software solutions. With their strong background in medical technology, Eusotec started out developing solutions for medical applications, such as clinical information systems, medical navigation software, radiology and patient monitoring devices. The company also developed several business administration solutions, including billing and inventory management.

Many software solutions are based on a device-to-PC connection, with the PC being used for data storage, trending and data presentation. Some solutions additionally provide Internet connectivity via an integrated Web server and additional Internet services, such as FTP transfer and XML interfaces, installed on the PC. In 2009, Eusotec began development on a web server device that would enable wireless data logging, monitoring and alerting for systems not connected to the Internet. Because Lantronix has such a strong reputation in the marketplace, Eusotec decided to make contact with the company's German distributor, Sphinx Connect.

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CONNECT SMART. DO MORE.

## The Solution: Lantronix Provides a Flexible Foundation

Taking into account Eusotec's desired capabilities for its new web server product, Lantronix recommended both the WiBox® and WiPort® device servers. Both products take the complexity out of RF design and embedded Ethernet networking, enabling Eusotec's engineers to quickly develop its flagship product, the Mini-Data Logger and Web Server.

The Mini-Data Logger performs data storage every five minutes with the exact timestamps synchronized by various Internet time servers, eliminating the need to adjust for daylight saving time or time zone differences. Measured values can be displayed worldwide with any standard web browser, including mobile devices, or by using one or more of Eusotec's standard XML applications. A key feature of the Mini-Data Logger is the powerful, intelligent alert system, which sends alerts via email or SMS. Trend graphics and FTP transfer are supported as well.

With advanced security, robust data handling capabilities and high serial speeds built in, Eusotec's Mini-Data Logger and Web Server can be quickly customized for a variety of applications. According to Kai Rohleff, Master Computer Scientist, "With our common solution, we only need to exchange the RS232/RS485 protocol and adapt only a few HTML lines in order to connect any new devices. This has cut development time to just a few weeks to deliver our software for a new device."

## The Results: Lantronix Helps Eusotec Make Connections in New Industries

The Eusotec Mini Data Logger and Web Server uses less power than a standard PC and can operate in a wide temperature range, making it a great solution for applications in which energy values are measured. The versatility of the product has helped Eusotec enter new markets, including:

- Weather stations (Davis Vantage Series and Oregon WMR 928NX)
- M-BUS energy systems (electricity, gas, water, heat, etc.)
- Temperature measurement systems (Voltcraft K204)

Eusotec has already sold more than 50 devices in Austria, Switzerland, Spain and Germany. With further marketing, the company expects sales to grow. Looking to the future, Eusotec intends to develop new products using other Lantronix products, such as the EDS 2100. "We've found a great partner in Lantronix," says Rohleff.

### About Eusotec

Eusotec GmbH is a German software engineering and consulting firm specializing in Windows-based applications and embedded software solutions. For more than 20 years, Eusotec GmbH has been involved in the design and development of software solutions for medical and safety-critical applications as well as business applications. Eusotec develops cost-effective, custom software solutions for complex tasks using the highest standards of quality.

For more information, visit [www.eusotec.de/products](http://www.eusotec.de/products)

For more information on the WiBox® and WiPort®, visit:  
[www.lantronix.com/wibox](http://www.lantronix.com/wibox) or  
[www.lantronix.com/wiport](http://www.lantronix.com/wiport)

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