

simply more efficient. zenon.

THE SOFTWARE SYSTEM FOR HIGH PERFORMANCE
IN THE FOOD & BEVERAGE INDUSTRY.



zenon
do it your way



do it your way

You invest a great deal of effort in your success: ideas, resources, time. But will your software support your success — as it should do in an efficient and profitable company? Or is your freedom limited and dependent on issues that reduce your productivity?

The software that you use at the core of your production process directly determines the success of your strategy. Therefore one of the most important decisions that you will make is about the system that will control and monitor your production.

For more than 20 years, zenon – the HMI/SCADA (Human Machine Interface/ Supervisory Control and Data Acquisition) system created in the European software labs of COPA-DATA – has supported many companies worldwide on their way to sustained success. This is because zenon is not only independent but also flexible. By default it brings you compliance with all the important standards for high quality Food & Beverage products – including the strict regulations of the FDA 21 CFR Part 11 standard.

Moreover, zenon is particularly easy to use! It does not require any special programming skills. Even beginners can learn to use it after only a short time.

zenon makes it easy for you to develop and control your production in a way that allows you to obtain maximum benefits with minimum investment. zenon will communicate and run with a wide-range of hardware and with all current versions of the Windows operating system. zenon is designed to run across all plant levels, from machine operation, through production supervision and analysis, up to your ERP system and boardroom decision making.

With zenon, you can build a modern automation system within your existing architecture of machines, processes and networks – not just for new installations. zenon adapts easily to your infrastructure. We will show you how ...

zenon. do it your way



The easy path to high performance

Quality is your benchmark. Once you have reached an objective, requirements will change again. New standards, new production methods, new regulations. Automation can make it easy for you to reach your objectives only if it adapts to your situation, responds to your concepts and gives you the freedom to make decisions and act as you wish.

zenon is on your side. A friendly and functional HMI/SCADA application with an easy-to-use Editor for application development; perfectly coordinated and completely supporting you at each step towards success.

INVEST FOR HIGH RETURN

From the very beginning, zenon helps you to reduce costs and turn your investments into efficient operations that can be both seen and measured. Whatever you do – design, installation, maintenance or updating of your production facilities – zenon helps you to keep your costs under control.

zenon does not require programming skills; your engineering team or your automation partners will quickly learn to develop and maintain the system in a much shorter time and with much higher productivity. This is exactly what every member of the production team needs: flexible support from your automation system to quickly reach high performance.

As a software product, zenon has its own dynamic version-based evolution. However, you can decide when you wish to update your software, because zenon is compatible between versions.

REDUCED TIME PRESSURE

Teams that work under pressure are more likely to make errors. Release the pressure of time on your project teams and give them the perfect environment for effective work.

Your engineers will quickly learn how to use zenon. Supported by intelligent wizards, they will parameterize projects in a simple and effective way instead of programming them and risking the introduction of complex errors. Once finished, they can re-use any parts of the project in the future – in the current project as well as in a new project. In this way, your engineers can avoid performing expensive repetition.

zenon speeds up the implementation of automation projects, by giving you the opportunity to transfer and standardize principles and concepts within your company – even across different locations. Reduce the “time to the market” of your ideas!

EXPEDIENTLY OPTIMIZE YOUR PRODUCTION

zenon offers you a permanent overview of every machine, of every process and of the entire production facility. Your automation system receives data continuously: in real-time, zenon provides you with information at the level of detail that you choose. For example, production figures, consumption rates, errors, critical states or other important facts. Thanks to embedded logic and calculations, zenon supports you in making timely and correct operational decisions.

zenon stores your historical batch and other data in a database. However, zenon will not let you lose focus by being faced with a huge amount of data. zenon guides your attention to the relevant indicators, presented as reports, as curve trends, as filtered alarms or as event lists. Your ISO standard implementation or your HACCP (Hazard Analysis Critical Control Point) approach will require information. No problem! zenon does it for you; easy to implement and easy to use.

There is much more. zenon easily enables you to meet the strict FDA CFR Part 11 requirements, the Weinhenstephan standard, or important EU regulations such as EU178/2002. You can automatically calculate your OEE (Overall Equipment Effectiveness) or analyze your production breakdowns effectively and conveniently.



ZENON SUPPORTS YOUR PERFORMANCE, THANKS TO:

a powerful Editor for application development & maintenance with:

- ▶ Intuitive handling
- ▶ Standard modules with predefined functions
- ▶ Simple parameterizing instead of programming
- ▶ Highly productive Wizards
- ▶ Multi-user engineering

friendly and functional HMI/SCADA applications with:

- ▶ Alarm Management
- ▶ Audit Trail – Chronological Event List
- ▶ Historical Archive Server
- ▶ Extended Trends
- ▶ Report Generator
- ▶ Industrial Performance Analyzer (IPA)
- ▶ Industrial Maintenance Manager (IMM)
- ▶ straton IEC 61131-PLC as distributed logic and SCADA logic
- ▶ Mathematical calculations
- ▶ Statistical calculations

ISO 9000

ISA-95

ISA-88

WEIHENSTEPHAN STANDARD

EU REGULATION 178/2002

FDA 21 CFR PART 11

HACCP

TPM/OEE

TQM/SPC



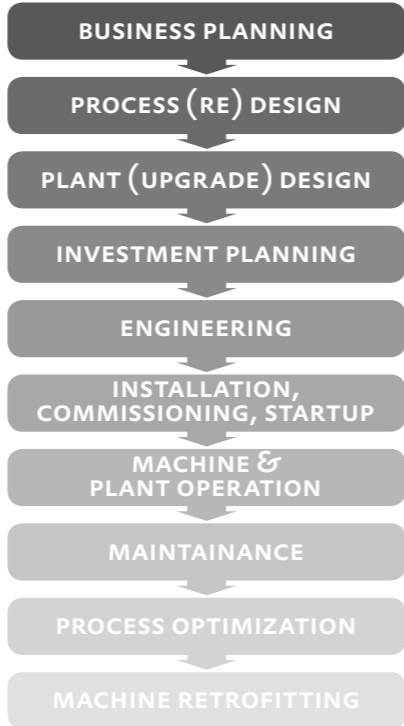
The freedom to choose and adapt your automation

The Food & Beverage industry is very dynamic. Consumers, again and again, enjoy new products in new packaging. In order to respond to these demands you need to be flexible and agile. You must be able to change processes and workflows quickly. Your process and plant automation is inseparably linked to this dynamic environment. Your automation should support your ideas and objectives, not limit them.

Hardware and software – every part of your process and plant automation is subject to different innovation & life cycles. zenon allows you to choose the optimum mix of new automation products and current ones. zenon sets you free to utilize evolving automation technology.

This means that when used as either HMI or as SCADA, zenon works perfectly with a wide-range of hardware or software to integrate every level of your automation during your process of continual improvement.

ZENON, EACH STEP OF THE WAY:



ZENON GIVES YOU FREEDOM, THANKS TO:

- ▶ zenon applications working on various hardware and operating systems (including 64 bit): Windows CE, XP Embedded, XP, Vista and Server 2008 – even via Web browsers.
- ▶ The powerful zenon Editor for application development
- ▶ straton IEC 61131-PLC as distributed logic and SCADA Logic
- ▶ More than 300 communication protocols
- ▶ Automatic project backup and project documentation
- ▶ Compatibility with all zenon versions
- ▶ Modularity and object-orientation
- ▶ Language switching
- ▶ Independence of screen resolution
- ▶ Worldview technology in visualization
- ▶ zenon networking technology
- ▶ Recipe Group Manager

STANDARDIZATION VERSUS CREATIVITY? ZENON BRINGS YOU BOTH!

In the challenging Food & Beverage industry creative solutions are in great demand. At the same time, you have to comply with international standards and the regulations of the FDA, the EU, other authorities, your company, and the product specification itself. With zenon, this can be accomplished.

If you need to change your automation architecture, your engineers or your automation partners can reconfigure the parameters of your zenon application easily, because of zenon's innate flexibility, which reduces opportunity for errors. Errors are also reduced because of zenon's inherent reliability and meticulous testing. As a result, you can update your production facilities in less time, using fewer resources.

COST OF OWNERSHIP REDUCED

At first sight, it may seem like a good idea to get hardware and software from a single source. That is until you want to implement your own plans and ideas.

Modern production methods require special machines and flexible concepts. Your plant may consist of old and new equipment, devices or measurement instruments. You selected them because of their technical performance, low repair costs or even low energy consumption. But you also need them to all work together and communicate effectively. This needn't be a problem – it is an easy task for zenon, as zenon is designed to communicate with a wide range of automation hardware and to run on any PC. Again, zenon supports you in lowering Total Cost of Ownership.

Thanks to state-of-the-art network technology, once the process data is within the software system, zenon takes care of it, processes it and delivers it quickly and safely. The network adapts easily to your plant changes and developments.

zenon gives you more options. Make sure that your plans and concepts are not single-sourced solutions which will limit your flexibility.

Communication dedicated to your management objectives

Efficient operation and management of Food & Beverage production plants is no longer possible without information about current or past processing. It is useful to continuously receive all data from production. zenon does more.

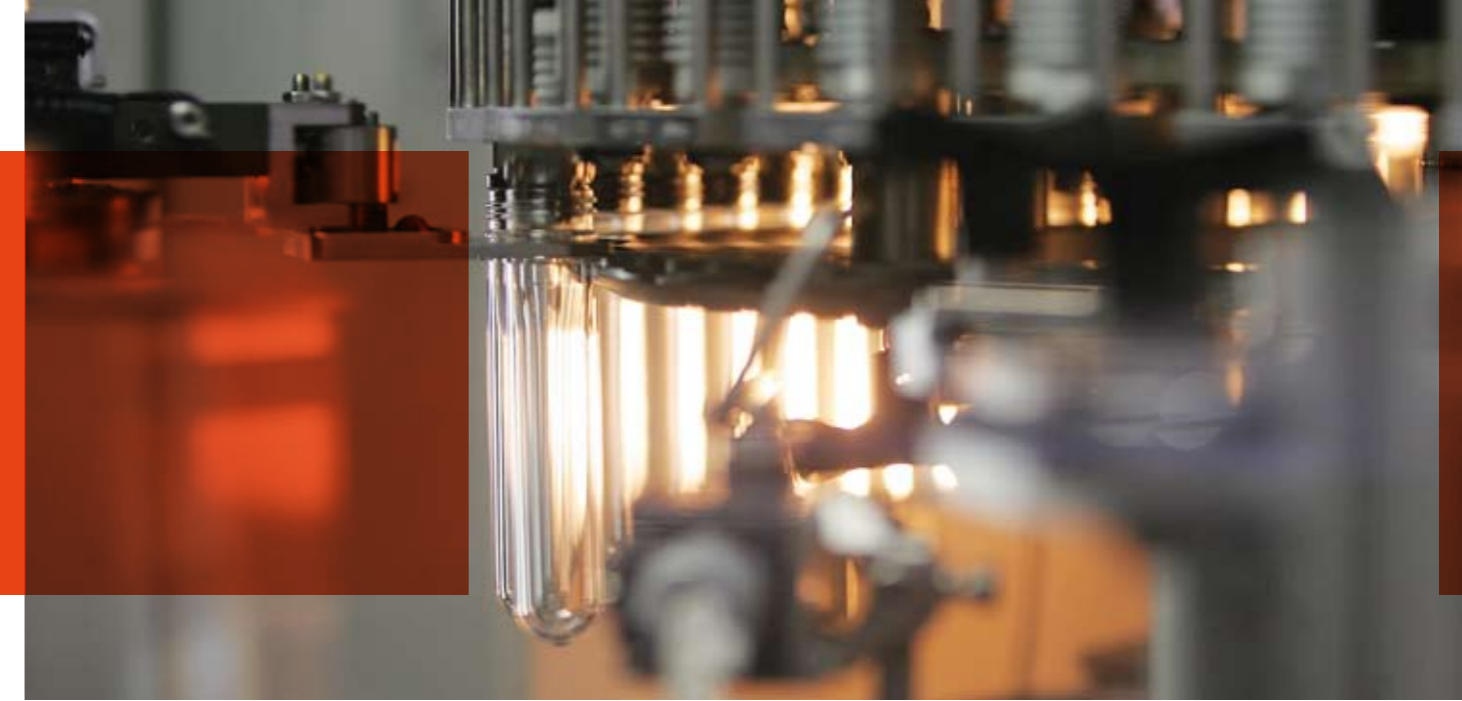
zenon guarantees the quality of the data, stores it safely, transforms it into valuable information and transmits it to the appropriate members of the production staff. So, everyone can do their job just-in-time, precisely, and as a real team player – delivering real time management!

STAY IN CONTACT WITH YOUR PROCESSES

Precise and timely production information is the basis for good decisions. Being able to step in at any time and make improvements or corrections is a prerequisite for successful management. zenon easily integrates new devices at any time. The necessary software components are usually ready-for-use. When connected, zenon manages the quality of the connection. zenon pays attention not only to the evolution of the process, but also to the correct running of the automation system itself. This gives you true insight into your processes.

THE RIGHT INFORMATION FOR THE RIGHT PEOPLE

Based on its full integration to the production process, zenon provides you with a premium HMI/SCADA solution. You configure and adjust your machines and you operate by maximizing the benefits of the technologies involved. If you know what is happening in good time, you can avoid or reduce downtime. zenon further transforms the data into valuable information at the supervisory



level, for every sector of the plant. Here it is important to ensure that all the machines and devices are working together in harmony, for maximum overall efficiency. You can analyze alarm data, localize weak spots, resolve bottlenecks and report the most frequent failures or the failures that cause the longest production stoppages.

zenon delivers many benefits to Plant Managers by managing production, quality, maintenance or materials and energy consumption. You obtain not only numbers, but information that is ready for immediate use. You can also obtain it wherever you are, through the Internet, by e-mail, SMS or voice message.

Your Enterprise Resource Planning (ERP) systems will also benefit from the accuracy and connectivity of zenon. If you use SAP or another ERP system, zenon will pass data directly to and from it.

NETWORKING FOR PERFECT TEAM WORK

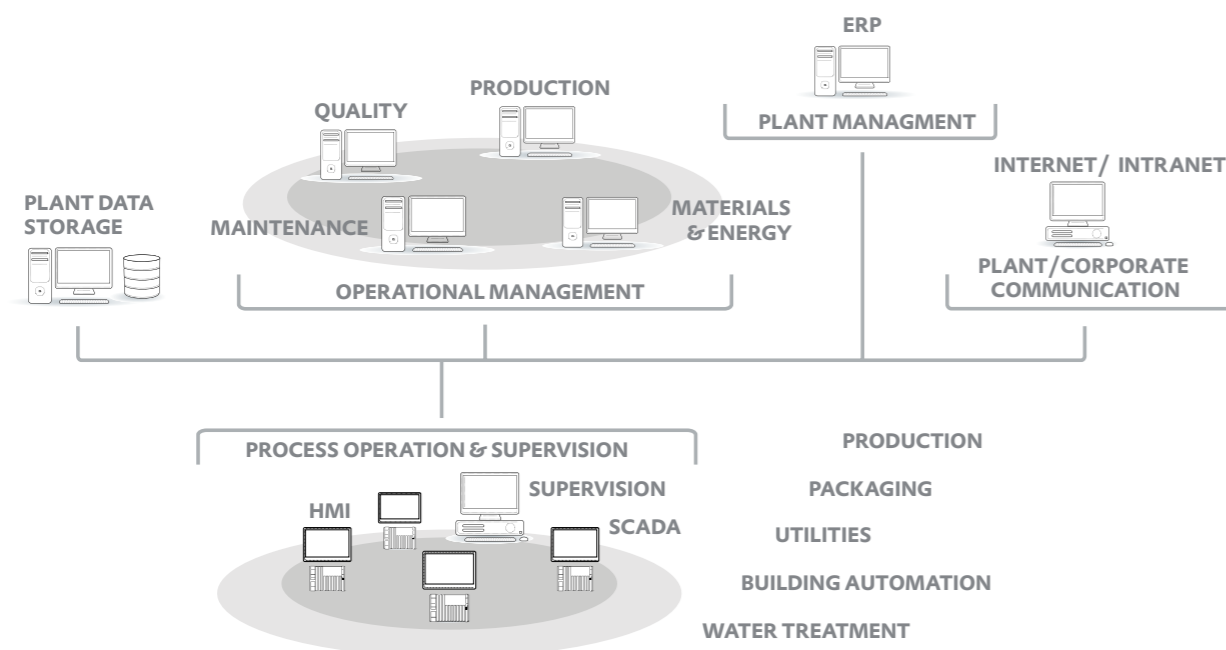
When you build your communication infrastructure with zenon, you will experience a new level of productivity – from the very start. Your engineers can configure a zenon network with only a few mouse clicks – without effort or preparation by your IT resource. With remote engineering, zenon makes it easy for you to tune, adapt or maintain your HMI/SCADA systems through your Ethernet network.

Production staff need to share, store and protect information. zenon network technology takes care of these tasks thanks to its embedded functionality. The entire system and the processed information have a high level of availability. This guarantees safe online operation of the entire plant and robust post-processing, analyzing and reporting.

Such a state-of-the-art infrastructure is designed to fit exactly with your organization. When your people are working together towards common goals then success is guaranteed. Involving new or additional people in production management is easy; they simply need an Internet Browser to access useful production information – all part of zenon's value.

ZENON ASSURES YOU COMPLETE COMMUNICATION, THANKS TO:

- ▶ More than 300 communication protocols
- ▶ zenon networking technology
- ▶ Circular Redundancy®
- ▶ Distributed engineering
- ▶ Support for the SNMP standard
- ▶ zenon WEB server
- ▶ Connections to relational SQL databases
- ▶ Data export to Microsoft™ Office formats
- ▶ Direct connection to SAP and other ERP systems
- ▶ Process Gateway
- ▶ Message Control: SMS, e-mail, voice messages



The whole production entity; made real, with seamless connectivity and integration, using zenon.



Commitment to your success



ZENON DELIVERS RESULTS, THANKS TO:

- ▶ long-term experience in the industry
- ▶ excellent user-oriented development
- ▶ optimum investment protection
- ▶ customized maintenance agreements
- ▶ individual and effective service

If it is about food, zenon is an expert. Based on extensive experience in the Food & Beverage industry, zenon offers exactly what manufacturers need for successful automation. This competence is utilized by many companies worldwide. zenon makes you more competitive.

BENEFIT FROM COPA-DATA'S KNOW-HOW

At COPA-DATA our research and development is strictly oriented to the needs of our customers. Product development always involves close contact with our users and our worldwide organization brings its industry knowledge and automation experience to zenon. The result: our easy to handle zenon, perfectly customized for, and ready to meet, the specific demands of the Food & Beverage industry.

COPA-DATA specialists will assist your engineers, technicians and operators from the beginning; from comprehensive training sessions to individual help by our experienced support team. When you call us at COPA-DATA, you will not speak to a call center operator; you will talk directly to experienced engineers who will understand your applications and propose solutions.

If there is a question during a project or if you need a new approach to a solution – the support team at COPA-DATA is there to assist you; with direct advice via telephone, e-mail, online conferences, individual sample projects or assistance via direct remote access.

You can also get valuable hints and tips from the forum on the COPA-DATA website, where you can discuss problems with developers and power users, and gain insight from other users. fb@copadata.com.



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Publication number: CD-FBF-E-08-09-01



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