

# The zenon philosophy [4/4]

## Vertical integration

zenon offers you consistent information in real time for quick and reliable decision making – at a glance, for all equipment worldwide. Vertical integration makes it possible for you to achieve problem-free communication to all levels, from the field level (PLC), through to superordinate systems such as ERP or data collection systems.



### CONSISTENT INTEGRATION

zenon is characterized by a huge diversity of interfaces, which is a particularly important precondition for reliable, consistent flows of data. Thanks to the large amount of drivers that it offers, zenon communicates with all common control systems – and is therefore a product-independent platform. Standardized interfaces (ODBC/OLE DB) are used to connect easily with all common database systems, such as Oracle, MSSQL Server, DB2, Informix etc. A database interface can be configured with a few mouse clicks. All necessary connections – and even the tables in the SQL database – are created automatically. zenon also communicates with ERP systems. SAP ERP can be connected using the certified SAP interface

zenon's flexible network solutions make simple integration into existing infrastructures particularly easy and allow

new infrastructures to be created quickly and reliably. Thus, the safety of your investment is significantly increased.

### FOR PRECISE AND SAFE PROCESSES

zenon makes it possible to identify the cause of any problems that might occur, even in complex manufacturing processes, and in real time. The cause of production errors can be quickly found using the detailed protocols.

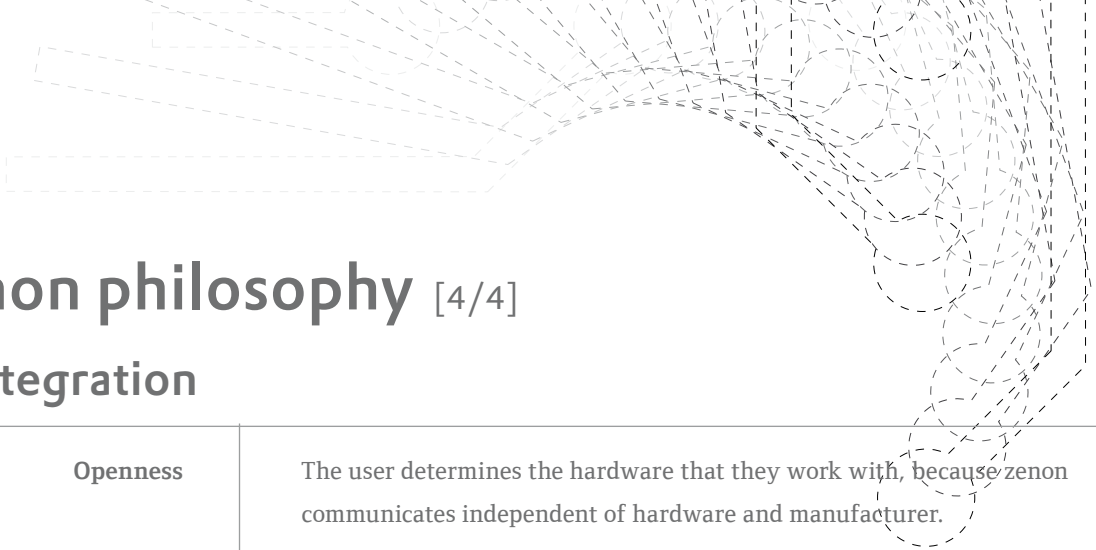
Downtime can be recorded precisely so you can analyze its triggers. Set-up times and running speeds can be quickly optimized. With its decentralized hierarchy and direct access to subordinate projects, zenon is proven to be reliable and very flexible.

### REDUNDANCY PROVIDES SAFETY

Redundant systems safe-guard against errors and minimize – or eliminate – their consequences. zenon carries this out reliably and (with 3 or more PCs in the network) even without interruption, if desired. In this way you can ensure that no data will be lost. zenon ensures that the flow of data runs consistently. A fully-fledged standby server always has the same data as the server. If a problem occurs, it automatically takes on all tasks and data sovereignty. Redundancy is also an important factor during maintenance work or service work on the network. Whilst the server is undergoing maintenance, the second server takes over communication automatically and seamlessly.

### FAST FACTS

- ▶ Simple integration / security of investment
- ▶ SQL connection
- ▶ Over 300 communication protocols – additional drivers can be developed at the customer's request
- ▶ ODBC/OLE DB interfaces
- ▶ SNMP network management and control
- ▶ Certified SAP interface



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<b>Openness</b>	The user determines the hardware that they work with, because zenon communicates independent of hardware and manufacturer.
<b>Drivers</b>	Over 300 different communication protocols: no delays when integrating new machines and modules.
<b>Data traffic</b>	Spontaneous data traffic: reduces the load on the communication channel considerably.
<b>Time stamp</b>	Time stamping in real-time by the control system. Includes status value for precise data recording.
<b>Quality assurance</b>	Quality assurance benefits from precise and reliable processes.
<b>Platforms</b>	Consistent Windows solution from CE through Windows 7, Server 2003, Server 2008-R2, including 64 bit versions – through to web.
<b>Experience</b>	Years of use in industry and power station management guarantees reliability and function in practice.
<b>SNMP</b>	zenon provides an integrated SNMP (Simple Network Management Protocol) solution. This standard protocol allows individual network components through to network segments to be monitored.