



# Software & Information Technology

## Network Software Automatically Detects Devices



Sinema Server Version 13 automatically detects all Profinet and Ethernet devices within a network, and enables a clear visualization of each node in a web browser. This affords maintenance personnel an overview of all device conditions and connections at any time; up to 50,000 nodes can be efficiently monitored. The software provides early detection of potential faults, allowing users to initiate preventive action. Acquired data relating to the network and the automation applications are saved in a long-term archive, which can be used to determine the root causes of past events and possible sources of error. Users can choose to have email alerts sent when changes are made to network components.

**Siemens**

[www.siemens.com](http://www.siemens.com)

## Software Helps Companies Achieve Operational Excellence

Version 8.8 of aspenONE features user-friendly, streamlined workflow innovations that help users minimize capital costs, improve plant productivity, and boost profitability. Fully integrated cost estimation, energy optimization, and heat exchanger design and rating (EDR) technology bring key information to the process simulation environment, and enable faster and more-accurate design selection earlier in the conceptual engineering phase. New relief-load calculation enhance-

ments for heat exchanger tube rupture, fire emergency, and control valve failure expand relief sizing and safety modeling capabilities — reducing the time to conduct pressure-relief analysis by approximately 50%. The addition of the Cubic Plus Association (CPA) fluid property package enables more-accurate methanol partitioning modeling, which enhances hydrate formation prediction and flow assurance in pipelines. A complete suite of refinery reactor models is available, including new naphtha hydrotreater and alkylation models. Other enhancements include the extension of polymer modeling to solids, fast adaptation of controller strategy to changing economic scenarios, and an improved plant scheduler and campaign manager.

**AspenTech**

[www.aspentech.com](http://www.aspentech.com)

## Maintenance Manager Accepts Email Work Requests

With FastMaint CMMS Version 7 equipment and facilities maintenance-management software, users can schedule both preventive maintenance and corrective maintenance work, send mobile work orders, receive feedback, and track the progress of outstanding and completed jobs. Maintenance activities can be scheduled automatically based on date, meter readings, emergency conditions, or other criteria the user specifies. Version 7 includes support for non-FastMaint users to submit and update maintenance work requests by email. These requests can be converted to work orders and emailed to maintenance personnel. The WYSIWYG report editor simplifies the creation of customized reports, and a new import function lets users update part prices, inventory quantities, and other data from a text file. The software is available in four editions (basic, standard, professional, and web), allowing busi-

nesses to upgrade the software to meet their needs as they grow in size and complexity.

**SMGlobal, Inc.**

[www.smglobal.com](http://www.smglobal.com)

## Training Simulator Captures Operator Experiences and Knowledge



Process plants, particularly those in emerging economies, face the challenge of critical-skill shortages as many experienced workers begin to retire. UniSim Competency Suite aims to address the growing shortage of trained operators with integrated, robust training simulations. By improving operator competency, facilities can drive safe, incident-free, efficient startups and ongoing operations. The operator-training simulator (OTS) allows users to accelerate knowledge transfer by consolidating an entire lifetime of experience into a concise process-training curriculum. A customizable competency model aligns and assists in improving critical skills and behaviors, and tracks employee progress to maintain a structured competency program. The tutor module is a knowledge capture and propagation tool that serves as a repository for domain knowledge and experiences. With the field-view and 3D-connect technologies, users can train in a 3D simulation environment constructed of actual facility photographs that is interactive, navigable, and panoramic.

**Honeywell**

[www.honeywell.com](http://www.honeywell.com)