PULSE

AFCON'S
EVOLUTION
OF SCADA/HMI

SET THE TONE.
CONTROL THE FLOW.
VISUALIZE THE
HARMONY.

AFCON SOFTWARE AND ELECTRONICS LTD.

COMPOSED FOR THE NEXT GENERATION

PULSE enables engineers to work autonomously while sharing over the net, to maximize productivity. It is fully compatible with .Net, Vista, WCF and WF, giving you a strong platform ready for today's technologies and open to meet further revisions down the road.

FLEXIBLE SERVICE ORIENTED APPLICATION

PULSE provides all vital production data, whenever you need it, wherever you are. Thanks to it's high flexibility and reliability, you can securely access PULSE via internet from any computer, or use a standard disk-on-key.

EXTRAORDINARY 3D GRAPHIC VISUALIZATION

PULSE brings SCADA to life, with spectacular visualization capabilities. Look and feel for the workspace has a "Vista-like" appearance. Executives need only one look to understand the full picture and the finest details.

PERFORMANCE WITH EFFICIENCY

PULSE is effortlessly integrated with your existing business systems, enabling you to work seamlessly without increased expenditure. Operating and application's maintenance costs are significantly reduced, with updates deployed through a centralized system.

PULSE

SYNCHRONIZING YOUR SUCCESS IN PULSE SCADA/HMI

Imagine yourself as a conductor of an outstanding orchestra. With the tap of your baton you have the power to control performance and to create a concert which is music to the ears. PULSE by AFCON is the hi-tech equivalent for conducting organizational harmony, putting all the information you need into your grasp. Visualize it. Control it. Benefit.

FINE TUNING A MASTERPIECE

PULSE is the most recent evolution of AFCON's proven P-CIM for SCADA/HMI solutions. With its increased efficiency, superior visualization capabilities and highly reliable platform for production, it raises the standard of SCADA/HMI solutions for organizations of any size. Like a well tuned orchestra, PULSE keeps everyone "on the same page". It offers engineers and executives alike one of the most advanced tools for supervisory control over manufacturing environments, for the benefit of the entire organization.

ADDITIONAL HIGHLIGHTS

LICENSING

PULSE's new licensing system supports flexible and floating site licenses, and various I/O capabilities.
Benefit: Flexible licensing is more cost-effective for the organization.

ZERO ADMINISTRATION

The new client-server architecture is based on Microsoft's WCF technology and the fascinating ClickOnce solution. This provides a service-oriented approach, where remote client workstations are automatically updated with new product versions and application definitions.
Benefit: New architecture eases deployment to the client application.

REMOTE DISTRIBUTED ENGINEERING

PULSE enables application engineers to concurrently develop the application from remote clients.
Benefit: Saves engineering time.

RELIABILITY

PULSE server can also run as a Windows service, configured to start automatically when the machine starts up. Furthermore, the service does not need to stop when the server on which it runs is undergoing system maintenance operations.
Benefit: Higher security and reliability of the control system, as well as simplified maintenance.

COMPATIBILITY

Existing P-CIM SCADA/HMI applications can be upgraded to PULSE using powerful migration tool.
Benefit: No need for added expenditure.

FLEXIBLE DEPLOYMENT

All projects - whether stand-alone, network-based or redundant - are engineered for all the .Net operating systems with the same studio. They are fully integrated and independent of screen resolution. Clients' workstation can also run under Terminal Server.
Benefit: Each project can be used without further modification in each network topology.

SCALABILITY

Stand-alone projects can be scaled to support network architecture with no engineering effort. New privileged client workstations can automatically connect to running server, eliminating the need for any local installation, before use.
Benefit: Reduces Total Cost of Ownership (TCO).

DATA GRID

PULSE offers a new data grid, supporting complex data sheets, such as OLEDB, XML, Dataset, INI, Text and more.
Benefit: Complex data from various databases and files is easily displayed.

LOCALIZATION

PULSE offers language switching in many variations, enabling international customer engineers to orient themselves immediately. Application and product texts can be translated using built-in editor, at the customer's site.
Benefit: Machinery and projects can be internationalized with a single mouse-click.

SECURITY MODELS

PULSE provides a selection of integrated security models and policies to match your requirements.
Benefit: Enables total control of all applications. Complies with security standards.

LAYERS

Users can assign objects to various layers and display selected layers during run-time. You can switch between layers to change the operator view.
Benefit: Different subsystems are represented on a single HMI screen (e.g. electrical and water supply networks, fire safety devices, air conditioning) and made visible at will.

CONNECTIVITY WITH OTHER CORPORATE IT DATABASES

Database is now built on Microsoft SQL Express 2005 (SQL Server 2005 compatible) making it an open and highly scalable solution.
Benefit: easy connectivity to a very wide variety of plant data sources. Users also appreciate high availability functionality built into the system.

ALARMS

The powerful alarms tool provides alarm viewer control, multiple alarm conditions per database block, customized different reactions to different alarm states, and more.
Benefit: Reaction and response to alarms significantly reduces costly downtime, and provides opportunities for preemptive resolution of potentially critical situation.

THEMES & STYLES

PULSE simplifies the process of creating matching, professional-looking visualization screens by using global themes and styles all over the application.
Benefit: Efficiency and consistent look. Themes and styles easily applied with one click.

CELLS

Engineers can create and combine smart objects (cells) using the built-in library of objects.
Modifications globally affect the cells that are already embedded in displays.
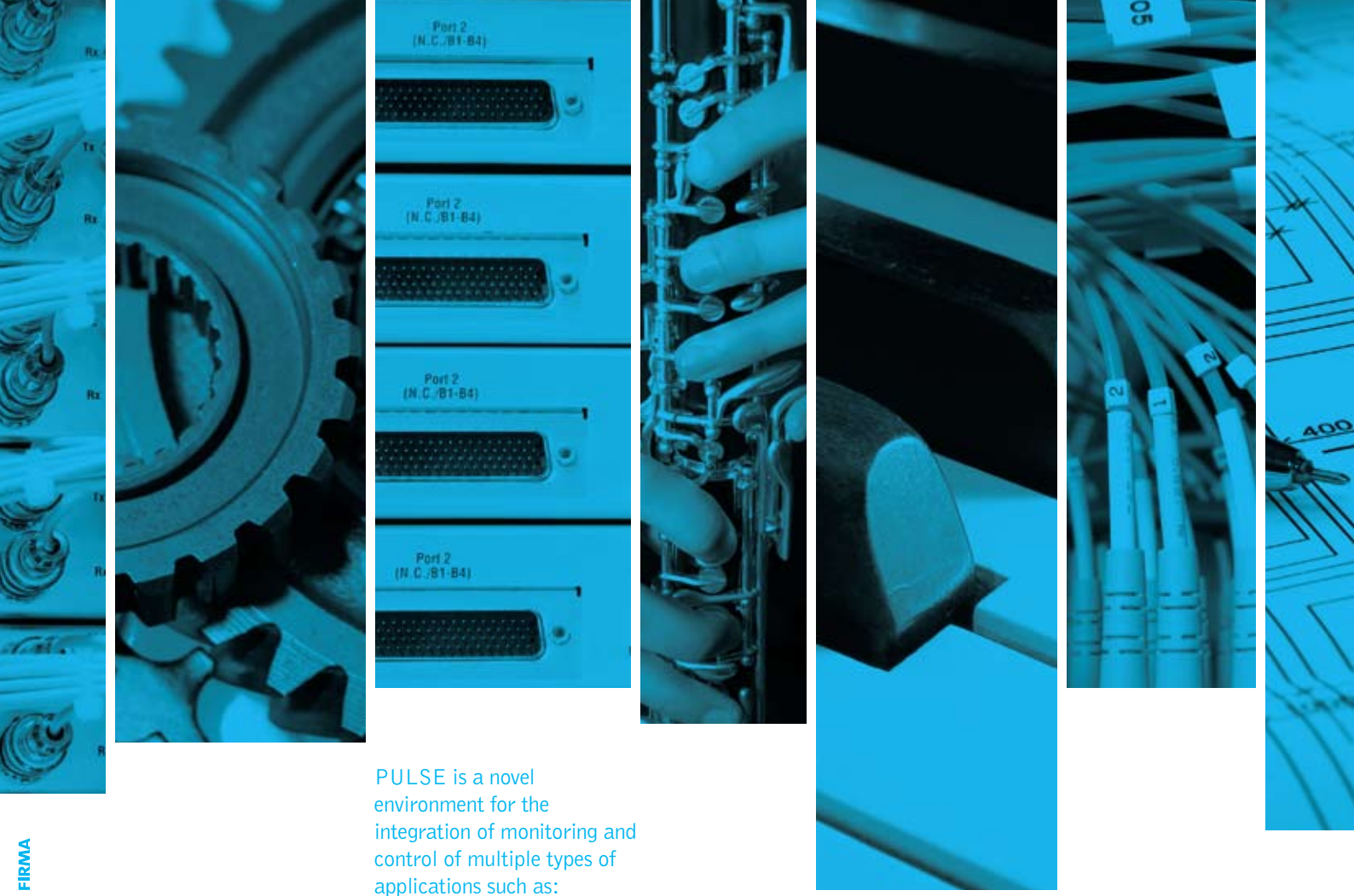**Benefit:** Cutting design time means cutting costs.

EXTENSIBILITY

PULSE leverages .Net technology capabilities, by granting advanced users the option to extend the collection of product functionalities with software components they develop themselves. Components such as activities, engineering unit conversions, .Net controls and more, can be added to the product tools galleries and be reused in the application.
Benefit: The product power is unlimited and can be easily enriched to provide total solution for any system.

FIRMA

PULSE is a novel
environment for the
integration of monitoring and
control of multiple types of
applications such as:

* Industrial Automation
* Plant Floor Data Collocation
* Security Systems
* Building Management
* Fire Detection
* Back-Office
* Inventory
* Access Control
* Plant Floor Management
* Maintenance

PULSE
DON'T MISS A BEAT

AFCON SOFTWARE AND ELECTRONICS LTD.

www.afcon-inc.com, marketing@afcon-inc.com