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### **Advantech introduces Studio 7.0 HMI/SCADA Software**

The Industrial Automation Group of Advantech introduces an integrated collection of automation tools that includes building blocks required to develop modern Human Machine Interfaces (HMIs) and Supervisory Control and Data Acquisition System (SCADA) applications that run on 32-bit and 64-bit Windows XP, Windows Vista, Windows 7, server editions, and CE.NET or in an inter/intranet environment.

The software includes Rapid Application Configuration Environment (RACE), an interface that was specifically designed to create an easy to use SCADA application development environment. Graphics include customizable color palettes and pattern fill options for trends. There is also a graphic feature that supports dynamic rotation of bitmap images to create lifelike animated displays.

Robust native security supports Microsoft Active Directory using standard LDAP protocol and offers security synchronization between multiple IWS workstations. In addition, intellectual property protection is included so that machine builders and integrators can protect their corporate custom functionality.

Advantech Studio 7.0 supports OPC UA, OPC .NET, and OPC DA and even OPC XML (with an add-on license) in addition to bundling in nearly 250 drivers that communicate with PLCs and controllers from all major manufacturers. Software features include online and historical alarms and trending; recipes, reports and advances features like patented SQL database connectivity, web publishing, email, and PDF publishing. A powerful one-click multi-language translation feature allows users to read their application in their native language.

Advantech Studio 7.0 is available with a wide variety of tag count and client seat options. This allows users to take advantage of the scalability of this SCADA software. Customers using Windows, Embedded, or Windows CE can develop their application on any supported Microsoft operating system and deploy it anywhere, while users on Windows 7 or Windows Server editions can use Advantech to develop complex SCADA projects to run on desktops or servers. Advantech Corporation, Industrial Automation Group - Founded in 1983, the Industrial Automation Group of Advantech Corporation is a pioneer in eAutomation technology; combining connectivity, flexibility and ruggedness with today's most reliable PC-based automation technologies. Product offerings include: Open HMI platforms, Industrial Ethernet, Automation Controllers, Automation Software, Embedded Automation Computers, Distributed I/O Modules, Plug-in I/O, and Industrial Communication solutions for a wide array of industries. With more than 25 years experience in providing a full range of products to different vertical markets, the Industrial Automation Group is proving to be a globally leading Automation Product and Services provider.

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### Desigo V5: Innovations from Siemens increase building efficiency

The Siemens Building Technologies Division has introduced version 5 of its Desigo building automation system. Its innovative products such as Total Room Automation as well as efficiency features, like RoomOptiControl and Eco Monitoring, give building operators and users an active role in energy management, leading to permanent reductions in energy and maintenance costs. A state-of-the-art building automation system is always optimized for energy-efficient operation. However, these optimized settings may start to drift over time. One of the underlying causes is often a lack of transparency for users who simply don't know how the setpoint changes they make can impact energy consumption. This is particularly true for air-conditioned rooms which are also equipped with lighting and sun protection controls. The new version of Desigo keeps room users and building operators apprised of the building's efficiency status. Feedback to users is given using the innovative Green Leaf display, adapted to the expertise and control options of each user group. The system makes it possible to change settings if needed to restore optimal energy efficiency. A study by Technische Universität München (TUM) indicates that by actively involving operators and users in the energy management of a building, energy consumption can be reduced by up to 25% without affecting comfort.

### Total Room Automation offers energy savings without reducing comfort

The open, programmable room automation range Desigo Total Room Automation (TRA) is a holistic solution encompassing the HVAC, lighting and shading disciplines. Desigo TRA uses an innovative efficiency feature called RoomOptiControl. It automatically detects unnecessary energy consumption in the room and notifies users by changing the color of the Green Leaf icon on the QMX3 room control unit: If room operations are energy efficient, this icon is green. If settings made by a room user lead to unnecessary energy consumption, the icon turns red. To reset room control to energy efficient operation, the user simply presses the display and the Green Leaf icon returns to green.

Using BACnet/IP, PXC3 room automation stations—also part of the TRA package—are integrated seamlessly into the PX automation level with its primary systems (heating generators, HVAC main units and cooling generators). The primary systems are controlled directly through the demand signals from the rooms. This means that the primary systems are only turned on if needed and their operation is adjusted so it meets the room requirements without exceeding them. One room automation station can cover multiple rooms. TRA offers complete integration of KNX, DALI and EnOcean devices; existing or new sensors and actuators from Siemens can be incorporated as well.

### Eco Monitoring to reduce energy consumption and wear

Eco Monitoring is another innovative efficiency feature of Desigo. It monitors ongoing operations of HVAC systems based on energy-related quality condition indicators such as readings from temperature, humidity and pressure sensors, runtime, switching behavior and operational performance of the systems. Should deviations from the target state, inefficient operations or increased energy consumption occur, the building operator is notified via the Green Leaf display on the Desigo Insight management station. Current and future international standards (such as EN 15323:2007) require such a feature in order to optimize building operations over the long term.

Desigo Eco Monitoring not only helps optimize energy consumption, it also reduces wear.

Thanks to its dynamic behavior and timely reporting, the Eco Monitoring feature recognizes unfavorable system operations early on, allowing operators to intervene immediately before any

negative impact occurs. If desired, operators can choose to be notified of unusual events via text messaging (SMS), fax or e-mail.

Expanded networking of the automation level

Starting with version 5, Desigo also offers expanded end-to-end networking of the automation level. Enhanced support for communications standards ensures efficient system integration.

The PXC series of compact automation stations has a higher number of universal inputs/outputs, which makes them much more flexible. To protect existing investments, different device generations, such as PTM and TX I/O modules and RXC room controllers, can be used in parallel on the same PX automation station.