# ADVANTAGES IN EVERY PHASE OF PACKAGING

From OEE tools to modular solutions, InduSoft Web Studio provides easy-to-use tools turning data into high yield production. No matter what form your packaging process takes, InduSoft Web Studio has the tools and the flexibility to monitor, track, and improve your packaging line. Save time in development, reduce errors in production, and pack and ship more product by leveraging the extensive tools available in this fully featured SCADA/HMI development suite.

InduSoft Web Studio can be scaled for every step of your operation, from the smallest touch-screen HMI to fully visualized dashboards available in the board room, or on the go via smartphone. Every step of the process, from monitoring fill and buffer capacity to maintaining machines can be performed using this powerful SCADA/HMI solution.
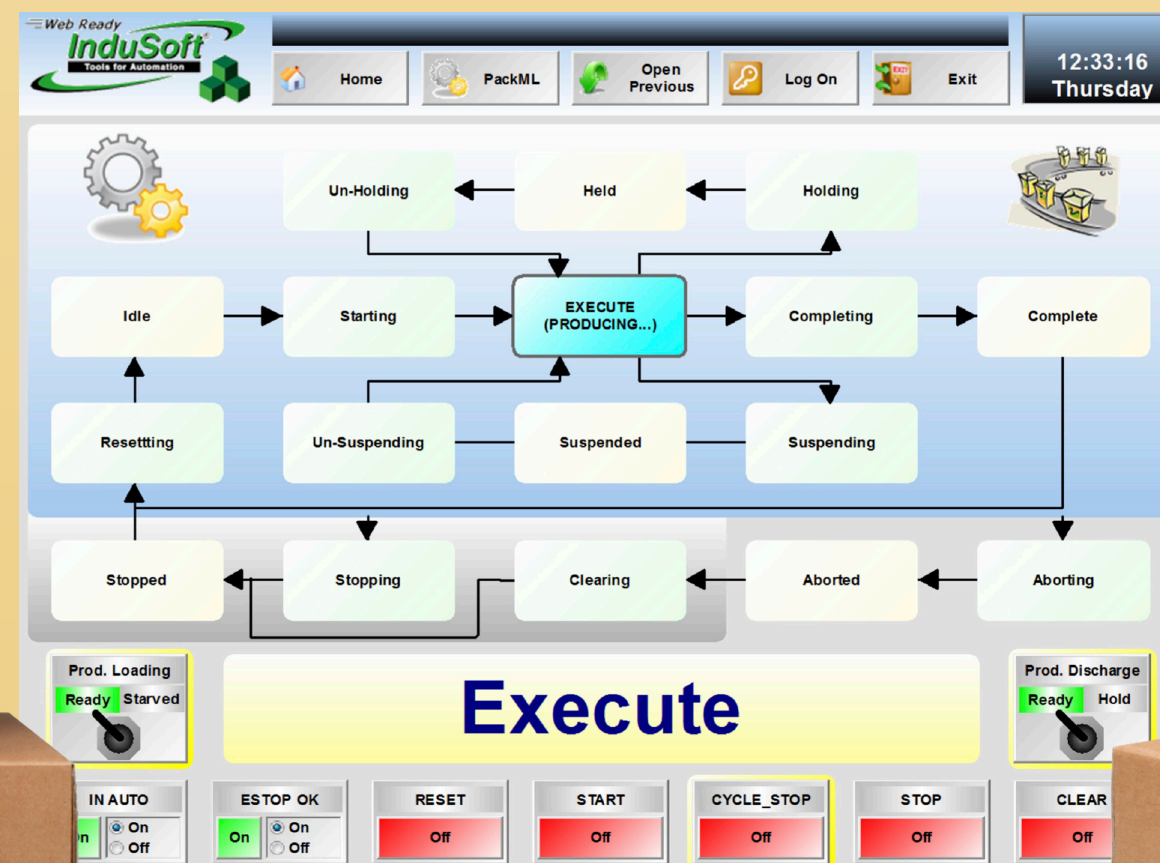
1. **Feeding:** Stand alone or multi-lane feeders can be fine tuned using InduSoft Web Studio. Adjust vibration frequencies, directions, lane adjustments and feed rates. Animation provides the visual feedback operators need. Even on small 4-6" displays, position, rotation and animation allow operators to be more efficient and make setup changes reliably. Product changeover time is reduced using built-in recipe functionality. Portable feeders can even be moved from machine to machine with drastically reduced setup time.

2. **Blister Packaging and Vacuum:** Monitor pressures, temperatures, relative humidity, operator behavior and any other traceability parameters. InduSoft Web Studio can create applications that are FDA 21 CFR Part 11 compliant. Heat zones can be monitored. Use recipes to instantly set up new product changeover. Create custom reports with times and date stamped lot information.

3. **Capping:** Whether your capping process is manual, automatic or semi automatic, InduSoft Web Studio can help make your process more efficient. Create graphs to identify quality issues before products ship to customers. Easily enter parameters for gripper width, belt height, location setup, cap feeder levels, and sorter setup.

4. **Conveyor and Material Handling:** Create modular, yet customizable conveyor architectures. Display information directly from drives and automated controls systems. Share status information with machine PLC and other controllers without the need for expensive gateway hardware. Provide status remotely. Alarms and other parameters are sent to remote stations, or even mobile phones. Real time information is presented in a user friendly display.

5. **Forming, Filling, and Seal:** Change bag length, rate, seal time, weight, and gas dispensing parameters. Simultaneously display data from PLC, checkweigher and inspection equipment, including metal detectors, and vision systems. Why force the operator to look at many different displays? Simplify your design by coordinating product changeover. Use handshaking and communication with upstream equipment to ensure bags are not filled with the wrong product. Track change over in any SQL database for future inspection.

6. **Inspecting:** With over 240 built-in drivers and the ability to use OPC servers, InduSoft Web Studio can communicate with nearly any inspection equipment. Eliminate costly specialized interfaces. Metal detection tunnels, vision systems, and even x-ray systems can be combined on one simple interface. Alarms are issued visually, audibly, and remotely. Take the guesswork out of your operation. Log inspection results directly to any external relational database. Save alarm history and event history to any SQL Relational Database, ,without the addition of any

add-on package. InduSoft has a patent for exchanging data with remote SQL Relational Databases, even from Windows CE devices. It is not necessary to write scripts for the most commonly used database integration. The interface contains built-in in history tasks (Alarm, Trends, and Events), as well as in-graphic objects such as Trends, Alarms, Grids, and Combo-boxes. InduSoft Web Studio allows you to customize any SQL command, including the executing of store procedures..

7. **Case and Tray:** Case/tray forming, gluing, folding, lidding, wrapping and strapping operations demand reliable monitoring and information. Give the operator the information they need to keep the machine running smoothly.

8. **Accumulating:** Monitor status upstream and downstream. InduSoft Web Studio can communicate with most PLCs, dedicated controllers, or databases. When you need to prevent critical machine stoppages, use InduSoft Web Studio to share the information between disparate devices. By logging and trending your buffer size, tuning your accumulator couldn't be easier. Prevent blocked or starved situations and keep your line running smoothly. Share information upstream and downstream directly to other HMI workstations, by using the built in TCP/IP communication interface without tying up valuable PLC resources

9. **Cartoning:** Share information between feeder, guarding, and safety systems, drives, lubrication systems, all on one screen. Have a long or large machine? No problem! Use InduSoft's web thin client to deploy low-cost workstations at multiple key locations around the machine. Keep the operator more efficient, reduce downtime, and make more products.

10. **Labeling:** Integrate with barcode, 2D and even RFID tag printers. Coordinate the printing and scanning all in one device. InduSoft works with most scanners, via USB, keyboard wedge, or dedicated devices. Do you manufacture printer technology? Embed an Indusoft Web Studio application right in your printer. Provide your customers with great looking displays and set up pages on an Internet Explorer web browser. Coordinate directly with MES systems and download data right from plant floor systems. No longer write custom code for each customer. Easily integrate with production systems and existing back office environments.

11. **Wrapping:** Shrink wrap tunnels to pallet wrapping; let Indusoft scale to meet your machinery needs. Run InduSoft Web Studio software on devices as small as a few inches to large flat panel displays.

BENEFITS FOR EVERY PACKAGING MACHINE

InduSoft Web Studio has tools available for a variety of specific processes in the packaging industry. Whether you're filling blister packs that require you to be FDA 21 CFR Part 11 compliant, or you need an OEE dashboard solution to monitor your entire line, you have all the tools you need at your disposal.

Supervisory Station
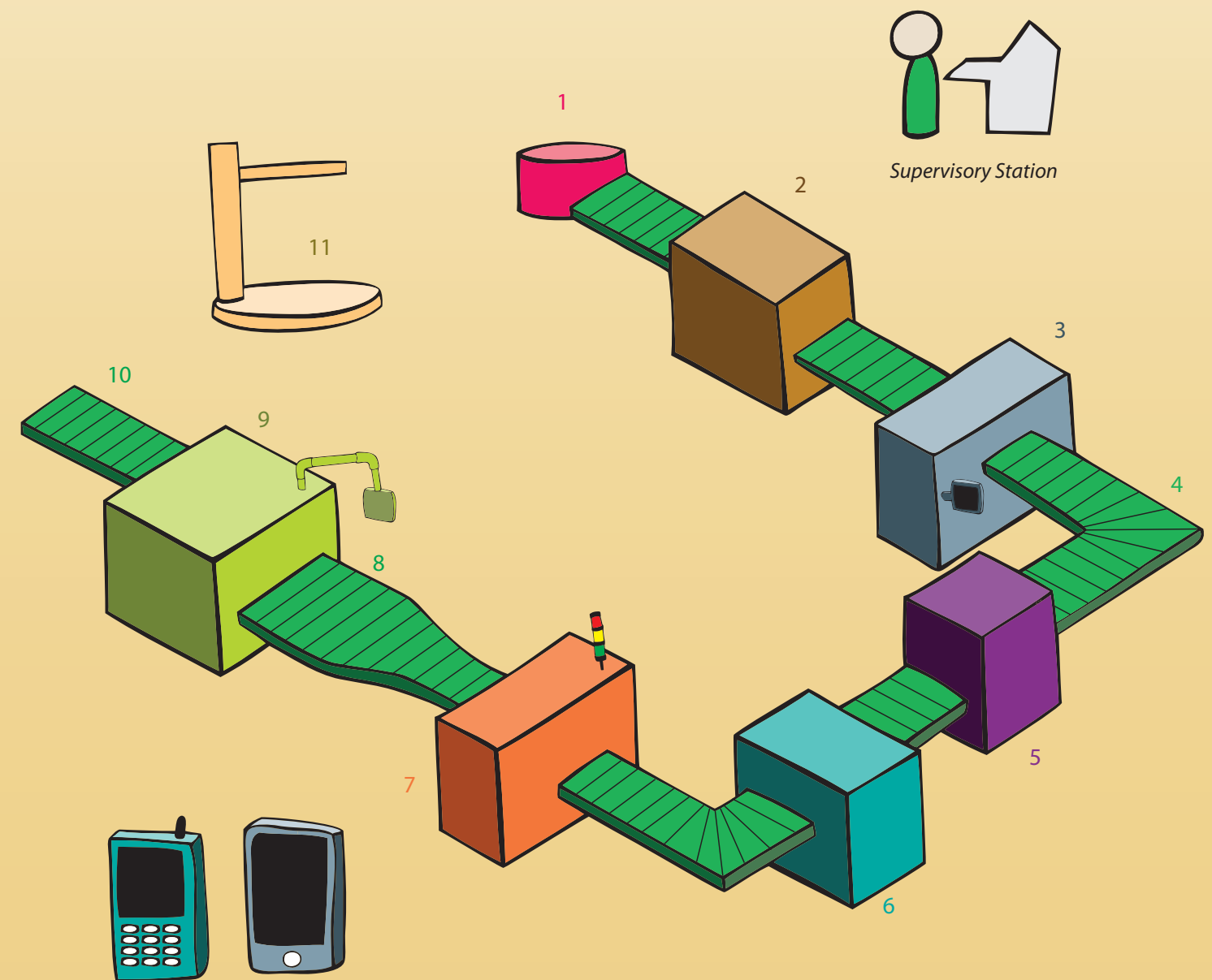
You can also deploy on your cell phone!

FLEXIBILTY AND FUNCTIONALITY WITH INDUSOFT WEB STUDIO

Clipboard Extinction, Log Data Anywhere:
Exchange data with any external SQL Relational Databases, via third-party ODBC, OLE-DB, ADO, or ADO.NET providers without the addition of any additional package. Automate the collection of data. Don't use your valuable human resources to record information and type it into Excel. Easily connect to ANY SQL or Oracle database, Excel, Access, ERP, SAP, or MES system. Automate collection of real-time data for Key Performance Indicators (KPI) such as Overall Equipment Effectiveness (OEE), downtime, and others. Is the logging of critical data a must? Built-in store and forward functionality logs information locally when the network is down, and synchronizes with the server when the network is restored. All of this happens without human interaction.

Save Time with InduSoft Symbols:
InduSoft offers an extensive library of symbols installed along with the product. In addition to the graphic design, the symbols include built-in animations, allowing for color changes, bar graphs, rotation, and more. Animate these simply by linking project tags to the pre-built symbols. Customize native symbols, or create your own, and share them with many different projects. InduSoft Web Studio also provides the ability to modify a master symbol and replicate the changes to all instances of this symbol throughout the entire application. It represents huge time savings when deploying, maintaining, or enhancing real-world projects. InduSoft Web Studio also utilizes enhanced graphic interfaces such as 3D buttons, the ability to link icons to buttons, and the capability to apply dynamic rotation to bitmaps during the runtime.

You can also use external symbol libraries with the InduSoft HMI/SCADA package. Since InduSoft is an Active/X and .NET container, you can simply drop these 3rd party graphics onto the screen. InduSoft Web Studio provides the flexibility to use built-in graphics or external graphics packages in order to create a dynamic and intuitive application.

InduSoft Web Studio also allows you to customize faceplates as Linked Symbols. Using the built-in "Import Wizard", import complete templates, with tags, screens, scripts, and even driver configuration.

Easy to Use Development Environment :
The ribbon interface has a modern look and feel, and brings increased user-friendliness and productivity. The new interface also offers the ability to open more than one document tab simultaneously, which speeds design workflow. Create consistent user interfaces, or share custom color pallets to keep corporate color standards throughout your project

Native Languages Means Less Mistakes:
If you build machines that ship globally, or are used in areas that are known to be multilingual, take advantage of InduSoft's easy configuration for language. The software supports Unicode, allowing translation to Arabic, Chinese, Russian, and other non-Latin character sets. In fact, InduSoft Web Studio translates all texts configured in the application with the click of one button using the Auto Translate tool. After translating all texts from the project automatically (via an internet-based API), you have the ability edit any text, such as technical terms or acronyms.

Since InduSoft Web Studio translates entire phrases rather than each word individually, the grammar rules for each language are automatically taken into consideration when translating the project. The runtime language can be selected during the runtime and each thin client can select a language individually. In addition to language translation, InduSoft Web Studio allows you to adjust other settings to localize your project, such as date format and engineering units.

Quickly Choose Tagnames or I/O Points:
InduSoft Web Studio provides a built-in tag browser and built-in function browser. As you type the tag name, the browser automatically filters the tags that match the typed name providing efficiency, even in large projects. The VBScript interface supports "intelliSense", so there is no need to open a different pop-up dialog to browse the tags or functions.

Reduce Machine Maintenance and Downtime:
InduSoft Web Studio provides a complete set of "remote management tools" to deploy, troubleshoot, enhance, and maintain applications though any TCP/IP link. Monitor tags, write values to tags, monitor the application events such as the Protocol Analyzer, and implement changes on the application remotely with a web-based configuration. The new, customizable installer allows the creation of install disks that contain only the features you want, plus your application, making it easier to deploy machine after machine with consistency. Quickly change PLC suppliers. Create efficient setup screens. Store parameters independent from machine logic, saving valuable PLC memory costs. All of these things enable you to produce higher quality machines more quickly.

Choice of Communications and an Open Architecture:
InduSoft Web Studio provides built-in drivers for most PLCs, drives, temperature controllers, scales, and inspection devices. Over 240 drivers included for Ethernet, serial or hardware based protocols. Drivers for Allen Bradley, Modbus (Schneider), GE, Mitsubishi, Omron, Siemens, and many others are included in the SCADA software suite. Use any PLC you want or the one your customer demands.
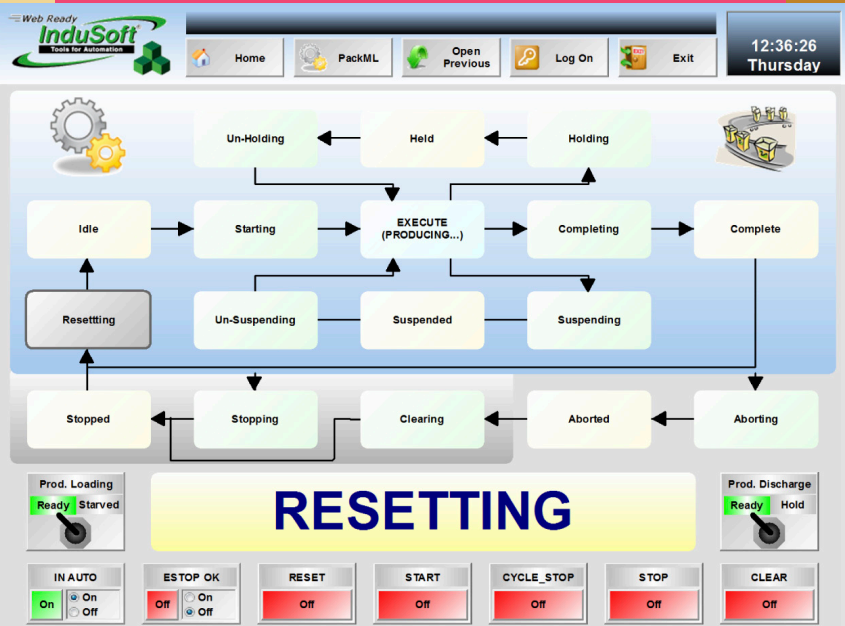
With support of several different protocols, platforms, databases, or systems, you're never locked into a proprietary software/hardware solution. InduSoft Web Studio provides interfaces bases on standard technologies (OPC DA/XML/UA/.NET), ActiveX, .NET Controls, ODBC, OLE-DB, ADO, Gateways to third-party SCADA, and readily available APIs for integration with third-party proprietary systems. Write scripts within the package using a non-proprietary language such as VBScript.

InduSoft supports all currently supported Microsoft operating systems, including Windows Embedded, Windows CE, Windows XP, Windows Vista, Windows 7, Windows Server, Windows 2003 Server, and Windows 2008 Server R2 (32 and 64 bits).

Stress Free, 100% Compatibility:
InduSoft makes it a mission to maintain compatibility with applications created in any previous version of our software. This protects your investment when designing symbols, templates, or entire applications. Keep different versions of the development environment simultaneously installed on the same computer, under different directories. Applications developed in 1997 have been loaded into current versions and work without modification. Find that anywhere else!

Remote Web and Mobile Solutions Gain Efficiency :
Visualize your application from remote web browsers using Internet Explorer with user logon based permissions. The same screens developed for the local user are available for the "remote" user on the Web Thin Client station. Use the Secure Viewer thin client to run remote stations

without any additional configuration on the Server station. Design screens that can be visualized from mobile devices such as PDAs or cell phones powered with a Microsoft operating system such as Windows Mobile or Windows 7, or use the Studio Mobile Access (SMA) client to receive information on iPads, iPhones, Android tablets, Blackberries, or any other web enabled device.

Maintenance Ease:
Eliminate costly service calls. Make informed decisions in real-time. Understand what it takes to keep machinery running. Monitor, diagnose, and interact with your applications remotely through built-in web interface. Display repair videos showing exactly what needs to be done, reducing or eliminating downtime.

Enhanced Security System :
The enhanced security features offer you the capability to share the security system settings among several stations, integrate the application with the Microsoft Active Directory, create a security system via LDAP, or cache security system authentication information.

Protect Your Corporate Property:
InduSoft Web Studio provides security for intellectual property. Each document in the application can be protected by password.

Bar Code and RFID Scanning Solutions:
Eliminate costly PLC add-on modules, connect scanners directly to the HMI. Increase reliability by reducing data entry errors, "fat-finger" mistakes and confusion. Easily tie this data directly to SQL databases for traceability or verification.

### Reduce Product Changeover Time:
Your customers demand shorter batch changeover. Use built-in recipe functionality to quickly change machine parameters with little or no operator interaction. Verify critical changes on a remote desktop PC or on mobile phones (including iPhones , and smart phones). Modify the application during the runtime using the online configuration. It is not necessary to shutdown the application to implement changes.

Reduce Hardware Costs, Dual Monitor Functionality :
Display the graphic interface in two monitors connected to the same computer (CPU). The graphic interface available on each monitor must provide independent screen navigation. This architecture does not have to rely on duplication of any screen during the development of the application. Large or long machines can simultaneously display information on remote monitors and interact with touch screens or other user input devices. Save cost by deploying robust remote monitors rather than full industrial PCs.

Visual Understanding :
Because a picture is worth a 1000 words, trends can visually alert you much quicker than raw data. Fill the area below the pens, apply transparency, and add pictures and text . Statistical Process Control (SPC) is included. Simply enable it with the click of an icon. No programming necessary. Easily view average, Min/Max, and standard deviation effortlessly.
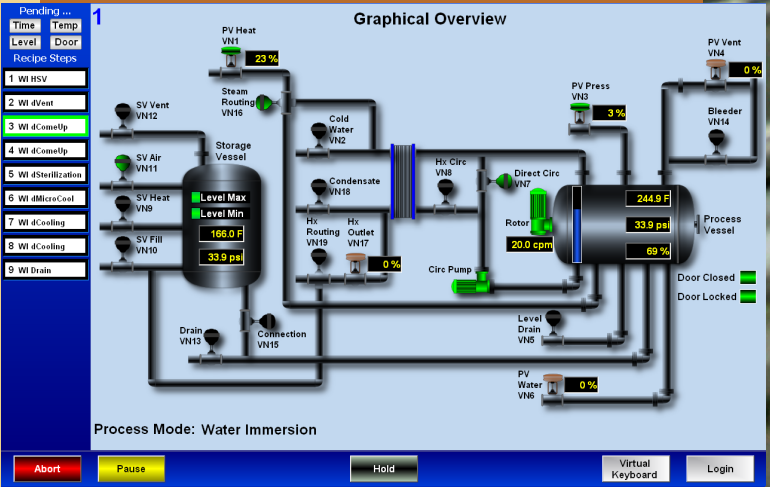
From OEE tools to modular solutions, Indusoft web studio provides easy-to-use tools turning data into high yield production.

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