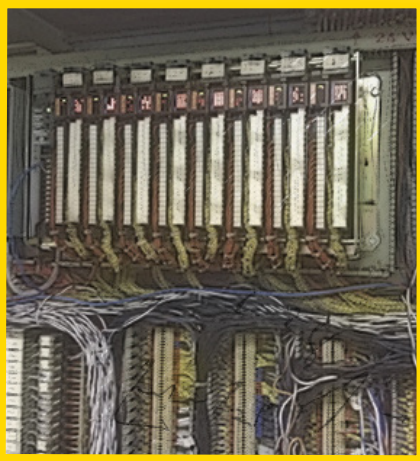


Control Systems Upgrade

LSI can help your plant transition from outdated legacy systems to current and supported control technology with less costly downtime.

Many industries – including food and beverage, pulp & paper and specialty chemical – are finding themselves in need of control system upgrades as legacy systems reach “end-of-life.”



REPLACING LEGACY CONTROL SYSTEMS

Even as manufacturers continue to put them to use, makers of legacy control systems have already or are in the process of ending support for these outdated products. Examples include:

- Rockwell 1774, PLC2, PLC3, PLC5 and SLC
- Bailey Infi90
- Siemens S5
- And many more
- Honeywell TDC
- Moore APACS
- GE/Modicon/etc.

All of these products are at the official “end of life.” If these products continue to function in your facilities, they put your manufacturing process and packaging lines at risk of extended outages at unscheduled times. This obsolete hardware and software are the “brains” of the plant systems used for maintaining production, and they are too important to operate without proper support.

REPLACING LEGACY OPERATOR INTERFACES

Operator interface software provides the operator with the means to control the starting/stopping of the systems, monitoring and managing the operation and the well-being/health of production. These operator (HMIs - Human Machine Interfaces) are typically desktop computers located in a centralized control room. As they reach end of life, many common issues manifest themselves with HMI systems:

- **Windows 7** – A popular operating system that expires in 2020, is used in many older HMIs and inhibits almost any potential for an upgrade.
- **Hard-to-get parts** – Critical components are individual parts within the “brains” that are at end of life, discontinued and are no longer available for purchase. They present a significant vulnerability when maintained with refurbished spare parts procured from third-party suppliers.

TIME TO UPGRADE

LSI has significant experience in a multitude of industries with performing control system upgrades. We have developed proven processes and procedures to ensure successful conversions and upgrades following demonstrated metrics. LSI is one of the country’s largest independent systems integration firms. This means that we can and have executed large system upgrades of well over 15,000 I/O points. Inversely, we often work on upgrades involving fewer than 1,000 I/O points. Plus, LSI is independent and not tied to any one OEM. This allows us to offer solutions based on any platform you choose, including:

- Rockwell’s ControlLogix Plant PAX
- Emerson’s DeltaV
- Siemens PCS7
- ProLeiT
- Ignition
- Or even custom HMI options

WHAT IS THE BEST FIT?

By listening to the business requirements of your unique application and leveraging LSI’s powerful METRICs* program, our team of engineers, programmers and experts will help you to upgrade your systems in a way that improves the overall operation of your facility. In fact, our upgraded designs can accomplish the incredible, satisfying the needs of your head office, operational team and maintenance crew – all at the same time. This is accomplished by using system upgrade principles that focus on delivering the value of the new system at the most effective value-added cost. For example, upgrades can be performed in phases in operational facilities or over scheduled planned outages. You set the schedule and cost boundaries, and the LSI team will drive the schedule, manage the costs and provide the quality system you expect. We act as the “brain surgeons” for your plant, and that means we must earn your trust and confidence. Interested in finding out how we can upgrade your operation?

Contact LSI today.

**Manufacturing Enhancements Through Reducing Inadvertent Consequences*

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