

# Upgrade Your SCADA Controls in 3 (or 4) Easy Steps



## *Phased Replacement Options for a Legacy SCADA System*



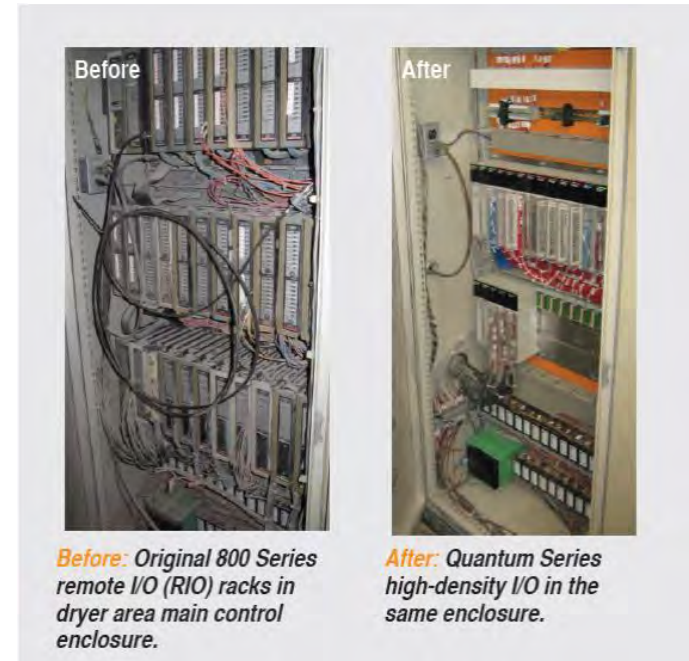
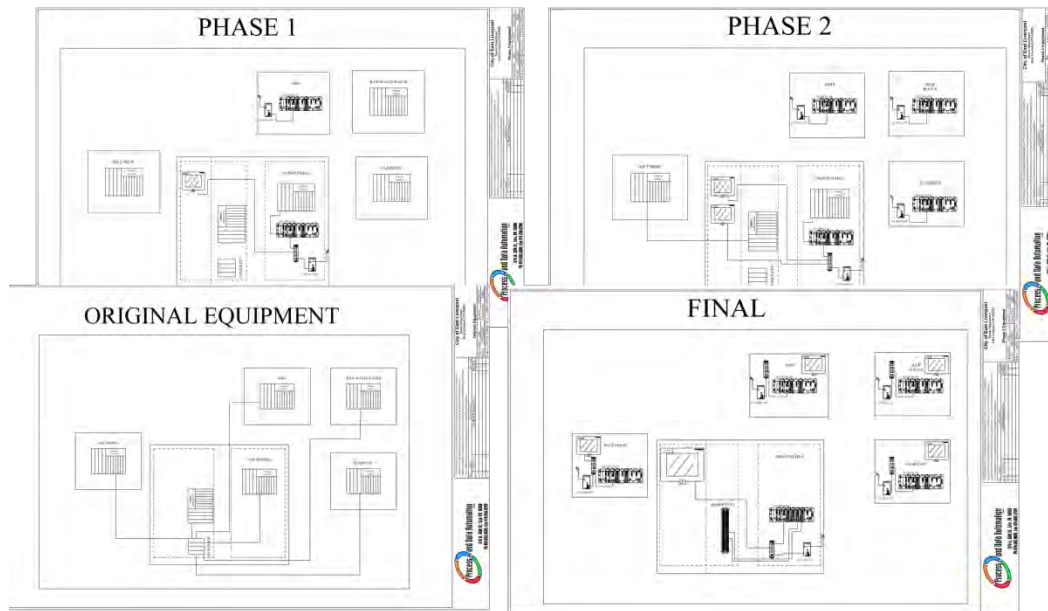
**Presenter: Jim Barish, Vice President of Sales & Client Services**



Process and Data Automation  
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# Timeline



1981



Early 80's

1982



1983



GE Series One

1984



Mid-Late  
80's

1987



1986



PLC 5

1989



Early 90's

1990

HTML Created and  
the Internet was  
Born

1991



SLC 500



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# Migration

In a 2010 study of process automation users, Automation Research Corporation (ARC) identified that 88% of these users confirmed the use of automation beyond the manufacturer's obsolescence date. In this same study, a clear majority of users acknowledge having NO lifecycle plan.

As a manufacturer today, you are being driven to leverage your automation investment in order to create an architecture for continuous optimization.

## Drivers for Migration

- *Productivity Gains*
- *Process Innovation*
- *Rising maintenance & parts costs*
- *Reducing Downtime*
- *Increase Capacity/Throughput*

## Business Goals

- *Improving*
  - *Data availability & security*
  - *Production flexibility & quality*
- *Reducing downtime & maintenance costs*
- *Meeting regulatory standards*





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## Migration Plan

### Assess

- Assess & document your control system
- Understand your current & future needs
- Identify reliability and longevity issues
- Determine scope of project
- Understand your cost

### Develop A Plan

- Work with your partners to review your options
- Develop migration plan to meet your needs
- Document the benefits of the new system

### Implement

- Engage the right partner
- Execute developed plan
- Document benefits of migration



# Product Lifecycle Mapping



[Further pictures](#)  
[Spare part investigation](#)

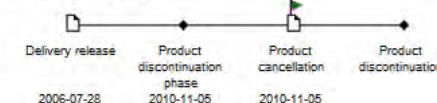
## Product description

SIMATIC S7-300 CPU 315-2 PN/DP, CENTRAL PROCESSING UNIT WITH 256 KBYTE WORKING MEMORY, 1. INTERFACE MPI/DP 12MBIT/S, 2. INTERFACE ETHERNET PROFINET, MICRO MEMORY CARD NECESSARY

## Version release

Product version: 04 Firmware version: V2.6.12 Software version: -

## Product life cycle



- **Active** - Current, in-stock product, Full support (consulting, repair, training, transactional, and contract services)
- **Matured**- Low inventory, support through forecasted date, Well-defined migration path with incentives
- **Discontinued** - No new product; repair services available
- **Obsolete** - Product and repair services unavailable



## Upgrading Programs



### StepForward™

#### Resources

- Silver Series
- Migration Solutions

#### Technology Management Made Simple

The StepForward program offers promotional incentives for companies wanting to upgrade/migrate Rockwell Automation equipment. Call your local Rockwell Automation Distributor for applicable products and credits.

### Trade-Up Program



GE  
Intelligent Platforms











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## Manufacturers

## Common Legacy Systems

## Current Systems

	SLC 150 PLC 2	PLC 3 PLC 5	SLC 500	MicroLogix CompactLogix	ControlLogix GaurdLogix
	S5 Series			LOGO! S7 Series	
	Gould/Modicon 984 Gould/Modicon 884			Modicon Quantum Premium	
	Series 90-70 Series 1			VersaMax Micro VersaMax Modular Series 90-30	
	Bristol 3000 Series			Controlwave	
	Koyo DL Series			Productivity3000 Do-more Series	
				Direct Logic CLICK Series	



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## Design Considerations

### Design Questions

**How do I Identify my obsolete components that I need to upgrade?**

**How will I know what products to use?**

**How do I preserve my application code?**

**How do I change my controller without disrupting my current operations?**

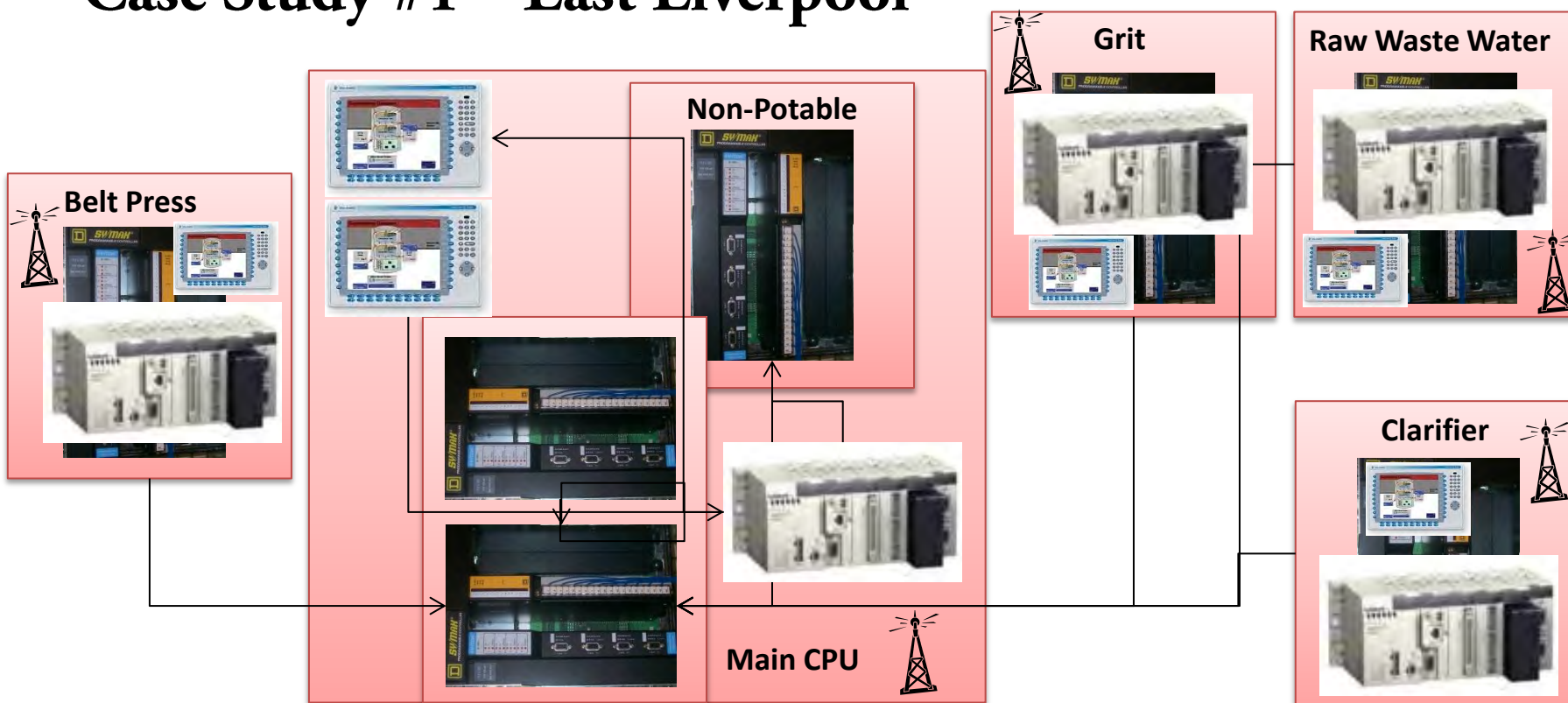
**What happens to all of my operator interface screens?**

**What happens to my I/O?**





## Case Study #1 – East Liverpool





- **Separation Of Process Control and HMI And Data Collection Networks.**
- **Integration Of Membrane Cells HMI Control Into Existing SCADA System.**
- **Membrane Cell PLC Control and Local HMI Layout.**
- **Upgrade and Combine Support Systems Controls.**
- **SCADA Computer Centralization Improvements.**







## Case Study #3 – Albion







## Important Information & Resources

- **Trade-Up and Migration Programs**
  - Rockwell Automation- Step Forward
  - GE Intelligent Platforms- Trade-Up
  - Most Manufacturers have these programs, have your supplier ask.
  - Stay updated on Product Lifecycle Lists
- **Tips to Implementation of a System Upgrade**
  - Find a trusted Partner to work with you through the entire process.
  - Assess, Develop a Plan, and Implement. Make sure all Design Considerations are accounted for.
  - Understand your needs and the value of having a system that utilizes current technologies.
  - Understand the Importance in moving away from a Legacy System.



**Visit Booth #xx for our  
extended Information &  
Resources Hand-out**



**Industry Partners:**



**SIEMENS**



GE  
Intelligent Platforms

# Questions?

## Thank you for attending our presentation!

## Visit us at Booth #xx

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