

Better plant performance begins with an efficient control system

Migrate your legacy Rockwell PLC to a Unity-based Modicon control platform for a complete state-of-the-art solution



Schneider
Electric



The risks of an ageing control system

As industrial systems around the world get older, a significant number are nearing the end of their useful life, like the Rockwell SLC500. Updating your aged installations with the latest technology now will help you retain your productivity and competitive edge by avoiding:

- > Unscheduled downtime
- > Expensive repairs and long lead times for spare parts
- > Inability to support new information technologies
- > Unreliable electronics
- > Diminishing productivity
- > Limited network options and restricted openness

Modernize your control system now and maximize uptime and production



Modernizing your control system is much more than just a technological upgrade. It is your first step on the path toward innovative industrial process management that also optimizes your existing investment.

When modernizing your control system, you need a partner with experience, someone who understands the specifics of your industry and can unlock the opportunities to expansion and competitiveness – and very importantly – someone who has the global resources to support you with:

- > Open, integrated and scalable automation architectures
- > Global support and solid execution capabilities
- > Complete service capabilities to support you throughout the entire lifecycle of your system
- > In-depth knowledge of your industry and a large network of partners to help build a complete solution
- > Improved energy efficiency

When choosing Schneider Electric, you also choose the leader in energy management, from the device level all the way to the enterprise level.

Unscheduled
downtime costs
on average

5%

of the value of
total production.

Source: ARC survey 2010

Easy 2-step migration of your legacy SLC500 to Modicon M340

With your challenges in mind, we have developed a migration solution that allows you to quickly and easily migrate your legacy Rockwell Automation SLC500 systems to cutting-edge Schneider Electric M340 programmable automation controllers powered by our Unity™ software platform.

Our migration solution provides:

- > Reduced engineering costs
- > Automatic software conversion
- > Reduced risk and costs
- > Minimum production downtime

Step 1 | Software conversion: Securing your existing SLC500 application investment

Schneider Electric has developed custom software tools that rapidly create high-quality conversions of Rockwell PLC applications. Schneider Electric service teams and partners apply these tools to modernize your installation with minimum risk to you.

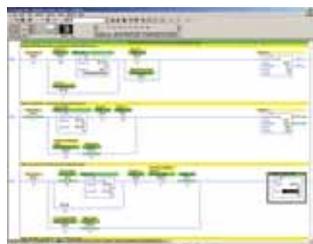
Every piece of information, including all I/O tag names, comments, and rung comments are preserved and presented in Unity, with the same look and feel so that your operation staff is instantly comfortable. Your historical investment in application programming is protected. Once in Unity that investment can be extended through Unity's best-in-class power and functionality.

Benefits of Unity Pro software:

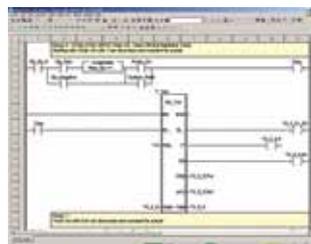
- > Similar look and feel to your legacy SLC500 in terms of code execution and documentation. No new system training needed
- > Easy-to-use graphical user interface with drag-and-drop functionality
- > Built-in library of pre-tested application function blocks
- > Customizable, user-developed function blocks that can be used in other applications
- > Advanced, intuitive diagnostics to help eliminate errors
- > Compliance with international PLC programming standard EN61131-3
- > Choice of five IEC programming languages



With Schneider Electric, you achieve a smooth, risk-free migration while optimizing uptime and production



Before conversion

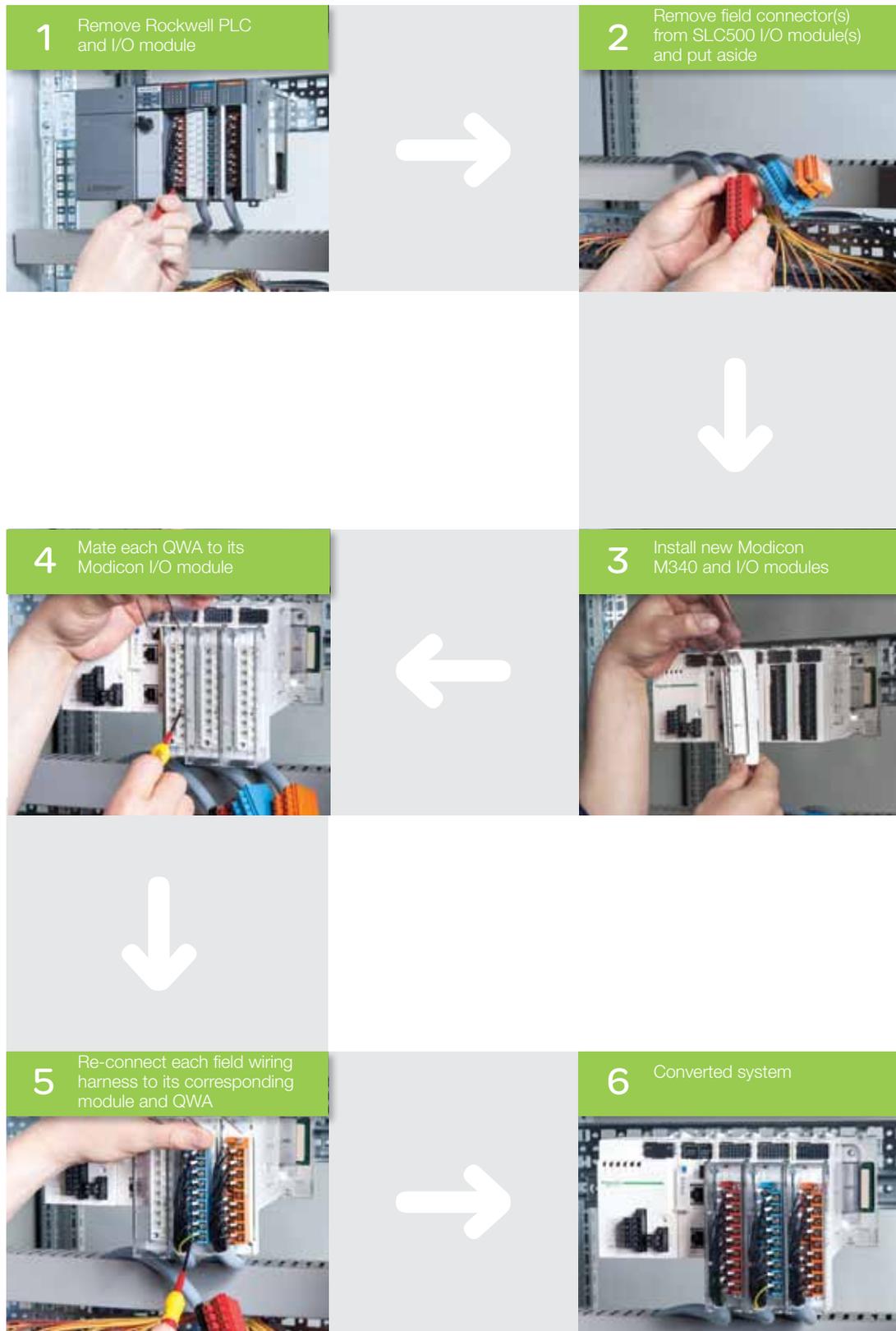


After conversion

Step 2 | Hardware migration: Seamless migration from the SLC500 controller and I/O to Modicon 340 control system

Thanks to our extensive I/O cross reference documentation you can migrate your control system with confidence. Our quick wiring solution allows you to keep existing field wiring and simply connect the terminal block to the new Modicon™ M340 I/O without having to touch a single wire - thus eliminating problems from faulty wiring.

Connecting couldn't be easier

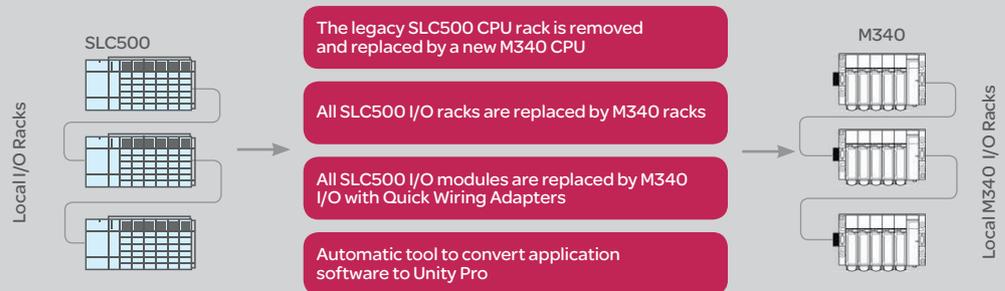


Enjoy the benefits and features of your new Modicon 340 control system

Using the I/O Quick Wiring system from Schneider Electric saves you hours and eliminates the risk of a faulty rewiring.

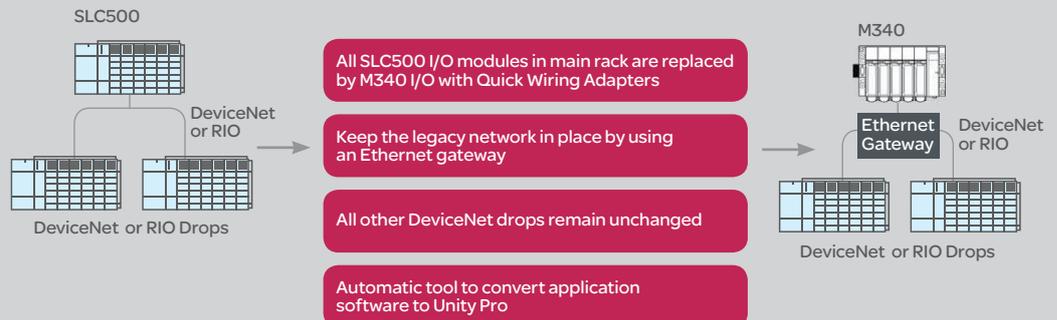
Typical Rockwell SLC 500 control architectures that can be migrated

Full migration - PLC with extended I/O rack

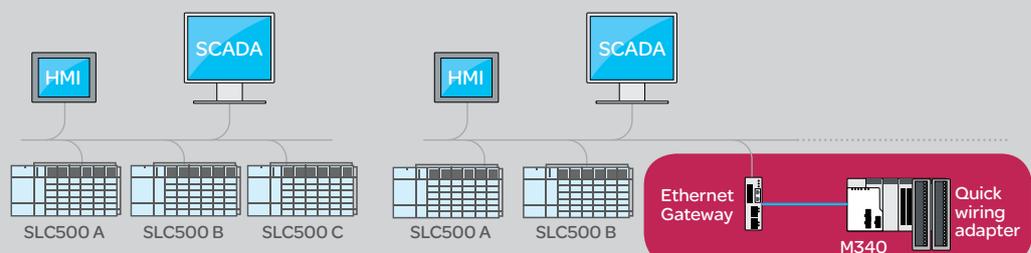


Partial migration

- > Replace the CPU and manage SLC500 I/O racks with a Unity controller



- > Replace the CPU and keep connection to a supervisory network





Enjoy the benefits of a modernized control platform

- > Quick access to the latest network solutions
- > Easy access to the information you need to optimize productivity
- > Improved Mean Time Between Failures
- > Cost-effective maintenance and service



Modernizing your control system not only boosts your productivity today, it will benefit you well into the future as well

Your modernized control platform is your gateway to the possibilities of PlantStruxure...

With Schneider Electric's Rockwell migration program, you preserve your existing investment, capitalize on the benefits of an automatic and risk-free migration, keep the same look and feel of your user interface, reduce your cost of ownership, and, very importantly, open the door to the openness and integration of our cutting edge PlantStruxure™ architecture.

PlantStruxure architecture: the future of the industrial control system

Evolving to PlantStruxure architecture is your first step into a world of optimized openness and integration!

PlantStruxure™ is Schneider Electric's collaborative and integrated automation architecture for industrial and infrastructure customers. It brings together our Telemetry, PLC/SCADA and DCS offerings with complete lifecycle services to help make your operations more efficient. From initial design to modernization, PlantStruxure transparently connects control, operation and enterprise levels of your business.

PlantStruxure architecture helps to:

- > Reduce engineering, operations and maintenance costs
- > Maximize plant and production efficiency
- > Improve production quality
- > Protect people, plant assets and the environment
- > Maximize return on investment

PlantStruxure PES (Process Expert System): The next step

Embed Active Energy Management into your process

Powerful Libraries

open • extensible • process aware

Integrated Software

engineering • operations • maintenance

Open Architecture

flexible • scalable • standard

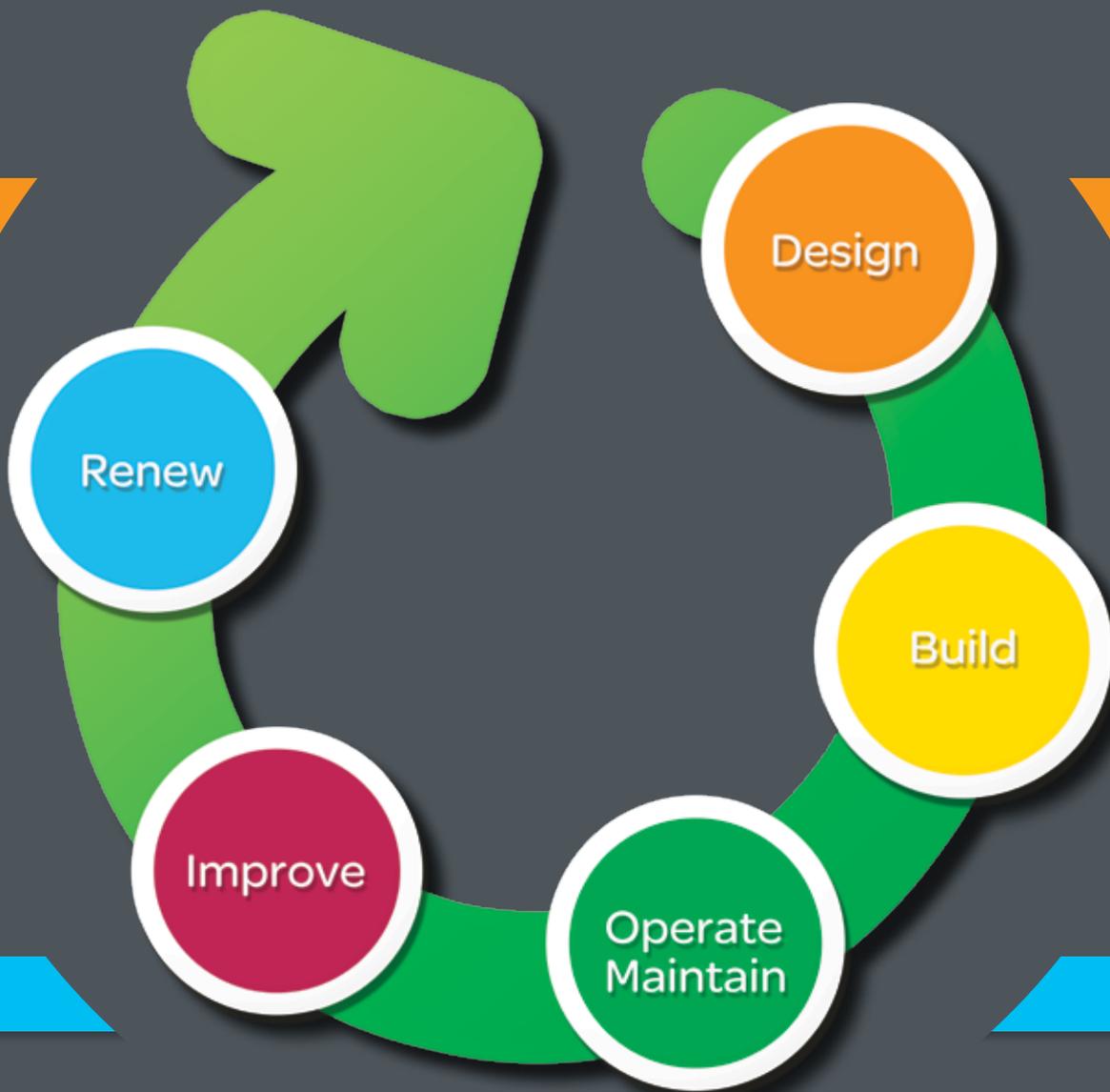
Optimize your asset performance with lifecycle services

By migrating the heart of your automation control system to Schneider Electric, you take the first step toward an integrated and open DCS. PlantStruxure PES is the next step.

PES has been designed as a true system with a unique object-oriented database, navigation capabilities, and change propagation. PES also offers a set of industry-specific libraries with embedded energy management functionality that makes it easy to improve both your process efficiency and your energy efficiency.

PES has taken the best of a DCS – system integration, single database, and powerful diagnostics capabilities – and combined them with the best of PLC/SCADA-based solutions to give you enhanced openness, flexibility, and ease of use.

With Schneider Electric, you maintain the functionality of your solution throughout the entire life cycle.



You need a partner with proven tools, methodologies, and processes

A successful and efficient modernization is achieved by working with a competent partner. Schneider Electric has more than 40 years' of experience in the automation industry. With operations in more than 100 countries and 40 automation centres staffed with more than 1400 professional application engineers, we have the worldwide network needed to support you every step of the way.

We work closely with you to apply best practices and deliver the confidence, safety and quality you deserve in the execution of your migration strategy.

Design: Best solutions for your needs

- > **Understand** your challenges
- > **Find** innovative technical solutions

Build: Availability of your solution

- > **Ensure** the delivery of your solution
- > **Provide** on-site services and support

Operate/Maintain: Smooth processes

- > **Balance** the functioning of your assets to reduce the number of failures
- > **Enhance** your staff's competencies to operate more effectively

Improve: Proven expertise for high performance

- > **Identify**, through your installation audit, functional limitations, and provide improvement recommendations
- > **Define** the right technical solutions to limit the risks during the modernization phase

Renew: Risk-free and easy upgrade

- > **Ensure** restart of the installation in the same conditions as before the operation and limit downtime
- > **Increase** flexibility and safety with advanced automation solutions



Make the most of your energySM

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998-1195527_GMA-GB



05-2013