

# *Modicon® Advance Program*

## Your migration to the future

***Improve***  
process integrity.

***Maximize***  
system expandability.

***Increase***  
automation platform  
return on investment.



*Simply Smart!*

Advance your legacy products to state-of-the-art  
Modicon hardware and software



# Modicon PLC support for today and tomorrow

For over 30 years, Schneider Electric has provided the most innovative automation technology to the marketplace. Our Modicon PLCs have set the standard for reliability, quality and long-lasting performance for a wide variety of applications.

Schneider Electric supports our installed base of Modicon customers with technical expertise, service and support to ensure that your systems are performing at optimal levels. As a part of our comprehensive service offering, our new, innovative PLC migration program creates a simple process to update your legacy systems based upon your specific needs and requirements.



*Modicon Advance Program offers you a unique value proposition by opening a window of opportunities...*



**Do you feel isolated from the rest of the world?**

*Let Schneider Electric integrate your legacy process with the world's latest business systems.*

- Get open access to common enterprise applications via standard Ethernet networking.
- Leverage WEB services, integration with database applications, e-mail and browser-based application reports.
- Easily capture and share mission critical process/batch data for auditing, i.e. six sigma processes.
- Take advantage of modern energy management tools to help drive down costs and optimize your manufacturing processes.

Transparent<sup>®</sup>  
Ready

# Modicon PLC migration

**Our Modicon Advance Program allows you to select the right level of upgrade required for your processors, software and I/O modules, allowing you to better manage equipment upgrades. Simplifying the process can reduce downtime by as much as 80%.**

Ranging from a one-step, all-inclusive migration to a phased approach, *Schneider Canada Services* will work with you to identify which type of upgrade is best suited for your unique situation. Your legacy Modicon platform will be updated to the new Telemecanique Modicon Quantum processor with the option of either retaining your current 984-based ladder logic software with our latest Proworx 984 LL software platform or converting to the new IEC-based Unity platform.

## Program profiles

Three options are available to allow you to customize the timing and extent of your individual migration program:

### • Partial migration

A single-step upgrade of your processor to a Modicon Quantum, while retaining your current ladder logic software.

### • Incremental migration

A phased approach consisting of three simple steps to migrate your legacy platform to the new Modicon Quantum processor, upgrade your I/O based and convert your current ladder logic software to IEC-based Unity in whatever timeframe you choose.

### • Total migration

A complete, single-step migration to a state-of-the-art platform that consists of a Modicon Quantum processor, upgraded I/O and IEC-based Unity software.

*Schneider Canada Services* can additionally provide custom service and support packages based on your individual system needs and requirements, providing legacy spares, maintenance programs and software training and support.

## Reducing risk and operational costs

There are numerous benefits of advancing to newer Telemecanique Modicon processors, including a lower cost of ownership, reduced maintenance, and increased reliability associated with new electronic components. Additionally, you will have better access to the latest technologies and state of the art components, better diagnostics and the potential for increased productivity.

The Modicon Advance Program is one of the many ways we pledge our dedication to improving your operational performance. No matter if you decide to migrate or maintain your current system, you can be sure that *Schneider Canada Services* will be there to support you.

## Key advantages of the Modicon Advance Program

- Increased production and efficiency
- Enhanced connectivity through access to multiple standard network options such as Ethernet and Fieldbus
- Lower repair costs
- Reduced downtime
- Improved reliability of newer electronic components
- Warranty coverage

MODICON 584

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# Modicon Advance Program Overview





The Modicon *Advance* Program provides several options that allow you to confidently migrate your automation system at your own pace, updating those system components that you deem necessary for operation.

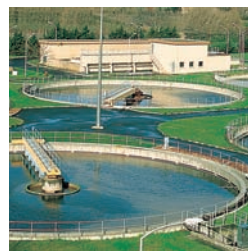
	Current Installation	Partial Migration	Incremental Migration	Total Migration
<b>Process overview</b>	<ul style="list-style-type: none"> <li>Legacy Modicon processor and 984 Ladder Logic software.</li> </ul>	<ul style="list-style-type: none"> <li>Option for migrating processor to the latest Quantum platform while retaining existing 984 LL software long-term.</li> </ul>	<ul style="list-style-type: none"> <li>Phased approach over time that migrates processor, updates I/O and converts software to the latest Quantum automation platform.</li> </ul>	<ul style="list-style-type: none"> <li>One-time migration of processor, software and I/O to a modern automation platform.</li> </ul>
<b>Migration outline</b>	<ul style="list-style-type: none"> <li>Maintain current processor and software.</li> </ul>	<ul style="list-style-type: none"> <li>Migrate processor to either a Quantum 140 CPU 434 12A or 140 CPU 534 14A.</li> <li>Optionally replace I/O's one drop at a time to generate MRO.</li> </ul>	<ul style="list-style-type: none"> <li>Migrate processor to a state-of-the-art Quantum</li> <li>Update remote I/O and wiring</li> <li><i>Schneider Canada Services</i> optionally converts 984 LL program to IEC 61131-3 Unity.</li> </ul>	<p><i>Schneider Canada Services</i></p> <ul style="list-style-type: none"> <li>Migrates processor to a state-of-the-art Quantum</li> <li>Updates the I/O and wiring</li> <li>Converts the 984 LL program to IEC 61131-3 Unity.</li> </ul>
<b>Process notes</b>	<ul style="list-style-type: none"> <li>Indefinite costs.</li> <li>Risk of obsolescence of electronic components.</li> <li>Unpredictable maintenance requirements.</li> <li>Increased potential for downtime as products age.</li> </ul>	<ul style="list-style-type: none"> <li>Partially addresses many legacy platform concerns:                             <ul style="list-style-type: none"> <li>- Improved processor reliability</li> <li>- Increased communication throughput and options</li> <li>- Faster speeds</li> <li>- Expansion opportunity</li> </ul> </li> <li>Smaller initial investment.</li> <li>Transparent Ready® gives you open access to standard Ethernet networks.</li> </ul>	<ul style="list-style-type: none"> <li>Smaller initial investment (may be able to finance using maintenance budget).</li> <li>Manage your upgrade investment based on your schedule and budget.</li> <li>Comprehensive solution that addresses all concerns:                             <ul style="list-style-type: none"> <li>- Improved processor reliability</li> <li>- Increased communication throughput and options</li> <li>- Faster speeds</li> <li>- Potential to expand functionality (e.g., add machine functions, add diagnostics)</li> <li>- Opportunity to increase machine capacity or throughput</li> </ul> </li> <li>Transparent Ready® gives you open access to standard Ethernet networks.</li> </ul>	<ul style="list-style-type: none"> <li>Lower overall investment with full benefits.</li> <li>Manage your upgrade investment based on your schedule and budget.</li> <li>One-time installation.</li> <li>Comprehensive solution that addresses all concerns:                             <ul style="list-style-type: none"> <li>- Improved processor reliability</li> <li>- Increased communication throughput and options</li> <li>- Faster speeds</li> <li>- Potential to expand functionality (e.g., add machine functions, add diagnostics)</li> <li>- Opportunity to increase machine capacity or throughput</li> </ul> </li> <li>Transparent Ready® gives you open access to standard Ethernet networks.</li> </ul>
<b>Comparison</b>	<ul style="list-style-type: none"> <li>No change to current processor and software.</li> <li>Warranty only on <i>repaired</i> units.</li> </ul>	<ul style="list-style-type: none"> <li>Partial migration (maintains current 984 Ladder Logic software long-term).</li> <li>Warranty on new product purchases.</li> </ul>	<ul style="list-style-type: none"> <li>Requires application or process to be offline multiple times.</li> <li>Warranty on new product purchases.</li> </ul>	<ul style="list-style-type: none"> <li>Requires application or process to be offline only once.</li> <li>Warranty on new product purchases.</li> </ul>



# Migrating - 5 easy steps

With *Schneider Canada Services* pre-assembled B800 Series transition hardware, migrating the 800 Series IO to our latest Modicon Quantum automation platform can be done in 5 easy steps. Our experienced *Schneider Canada Services* engineers can manage all aspects of the migration. From the initial automation audit through the entire conversion, a professional migrating team will manage the entire conversion process.

Step 1	Step 2	Step 3	Step 4	Step 5
<ul style="list-style-type: none"> <li>• Select 800 series IO and rack to be migrated</li> <li>• Remove all I/O modules, RIO adapter, power supply and field wiring connectors.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the 800 series rack with the swing arm backplate assembly.</li> </ul>	<ul style="list-style-type: none"> <li>• Mate the field 800 series connector with the quick connector/cable assembly</li> <li>• Mount onto the backplate.</li> </ul>	<ul style="list-style-type: none"> <li>• Mount the top of the Swing arm assembly</li> <li>• Install the Quantum I/O modules.</li> </ul>	<ul style="list-style-type: none"> <li>• Plug the Quantum I/O connector side of the prewired colour-coded quick connector/cable assembly to the corresponding Quantum I/O modules.</li> </ul>
				



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Advance Program**

- **Increased production and efficiency**
- **Enhanced connectivity through access to multiple standard network options such as Ethernet and Fieldbus**
- **Lower repair costs**
- **Reduced downtime**
- **Improved reliability of newer electronic components**
- **Warranty coverage**

# Reduce migration time by 80%

To minimize downtime and conversion errors during migration, **Schneider Canada Services' Modicon Advance Program** offers a full range of pre-assembled hardware.

The pre-assembled and tested B800 Series transition hardware facilitates migrating the 800 Series IO to our latest Modicon Quantum automation platform. Our Quantum Automation Series supports a full range of high performance I/O modules designed to interface with a wide variety of field devices.

**Pre-mounted B800 Series rack replacements for the H819 and H827**

- **Ready to receive the new Quantum hardware**
- **Fits in the existing rack location**
- **Houses your B800 series field connector**

**Pre-wired, colour-coded quick connector/cable assembly for B800 series**

- **Wide range of pre-wired cables**
- **Discrete 8, 16, 32 points**
- **Analogue 4, 6 16 points**
- **Fits the existing B800 field connectors**



**Swing Arm Assembly**



**Quick Connector/Cable Assembly**



# Transparent<sup>®</sup> Ready

*Use Transparent Ready web browser solutions to meet your process and facility monitoring requirements*



## Security / Auditing

- Improve audit tools and track process control changes and updates.

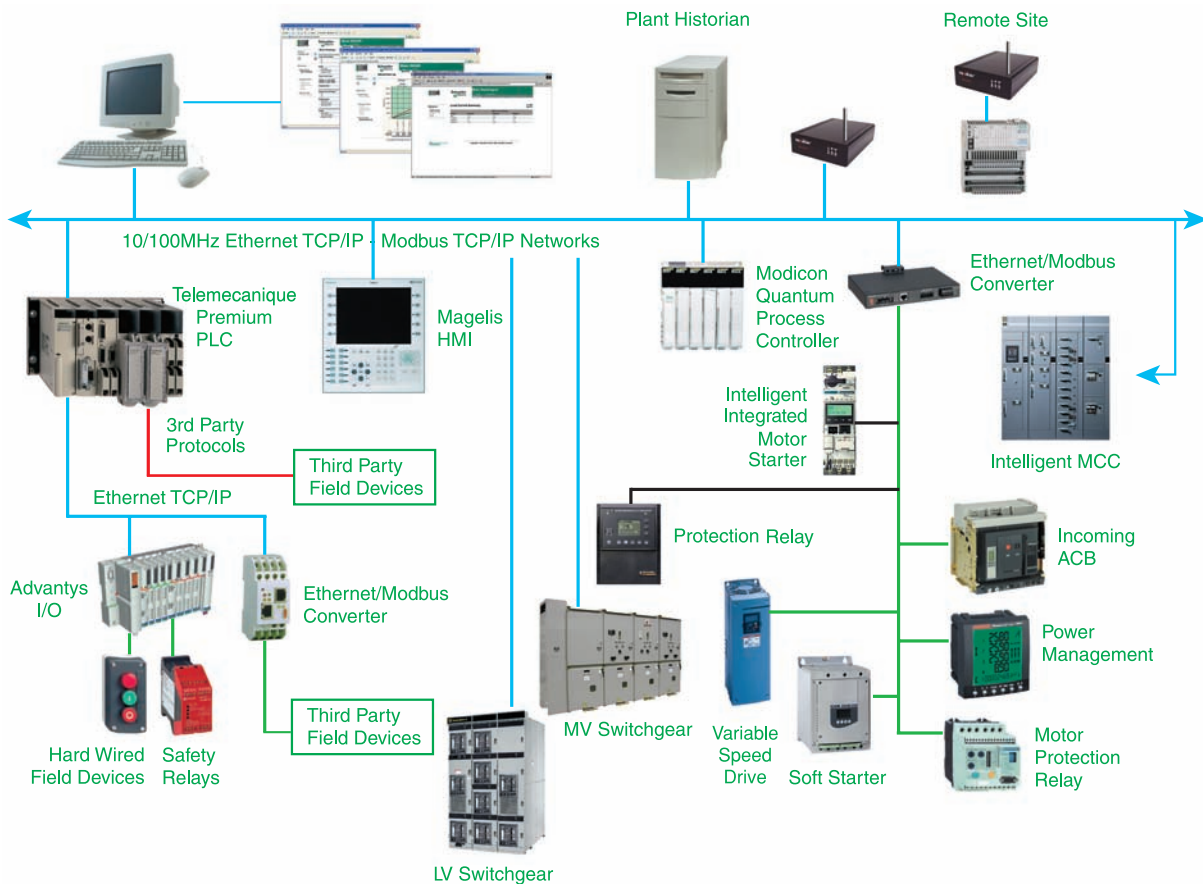
## Reduce Downtime

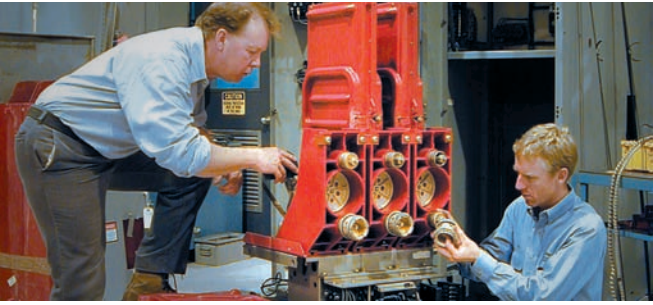
- Alarming – System generated e-mail informs plant personnel about problems in real time.
- Built-in system and process diagnostics.
- Remote access to your process control system at any time of the day or night.

## Reduced Total Cost of Ownership

- Secure in the knowledge that your hardware and software investment is current and easily maintained.
- Support for new and emerging fieldbus technology helps to reduce integration time and cost.
- Internet-based support services are available to help you to quickly diagnose equipment problems.
- New web servers expand your choices when selecting business systems and operator tools.
- New programming tools leverage your expertise and allow you to reuse components on other equipment and process.

## Typical communication process architecture

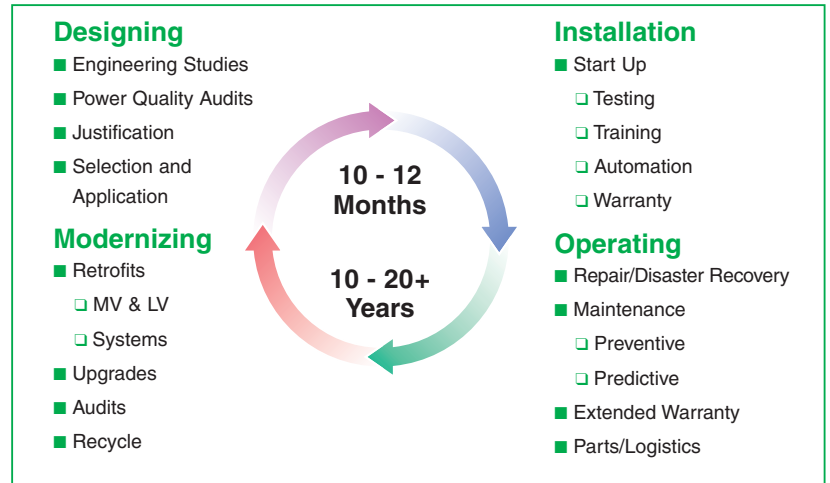




# Managing electrical equipment assets maximizes savings and safety

**Schneider Canada Services** provides electrical equipment asset management for industrial and commercial facilities across Canada so you can concentrate on your core activities. We maintain, upgrade and automate electrical equipment to extract the best value from it, maximizing its productivity and reliability through its life cycle.

**Schneider Canada Services** blend four main services to suit your needs.



A recent study has shown that 60% of all preventative maintenance is unnecessary. **Schneider Canada Services** is in the forefront of research and development into technologies that allow us to predict when equipment will fail. Trend analysis tools allow us to reduce your maintenance costs and prevent unplanned equipment failure, at less cost than routine maintenance.

## Automation system audit and assessment

Schneider Electric is offering an automation system audit and customized migration assessment to give you the right information to be able to select the best option for migrating your legacy Modicon equipment.

To take advantage of this opportunity, please fill out the following information and fax a photocopy of the assessment form to our PLC Migration Team at (905) 678-8583. Your local Schneider Electric sales representative will contact you to arrange the audit of your current system and in-depth review of your migration options.

### Modicon PLC assessment form

Company Name: _____	
Contact Name: _____	
Phone: _____	
Processor Model (CPU) and Type: _____	
Remote I/O Model: _____	
Number of Discrete & Analog I/O: _____	Number of I/O Drops: _____
Number of Networks of Ladder Logic: _____	Production Cost Per Hour of Downtime: \$ _____

For more information about the Modicon *Advance* Program, call your local Schneider Electric automation distributor or your local Schneider Electric sales representative at (800) 265-3374 or visit us online at <http://www.schneider-electric.ca/services>

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