Communication Solutions for
Rockwell Automation® Users
Leverage the IIoT
Collect, store, and analyze data to realize measureable business improvements.

There’s operational data within nearly every piece of equipment in your business – and you can use it to make changes that will positively affect your facility. ProSoft’s in-chassis modules and standalone gateways have been used for nearly 30 years to connect disparate equipment, the first step on the path to showing ROI from your Connected Enterprise.

After connecting your equipment with a ProSoft solution, you’ll:

- **Transmit the data** to your secure MES or ERP system via an OPC UA gateway. (Psst – ProSoft’s OPC UA Server gateway supports EtherNet/IP™ as well, ensuring smooth data transmission from your factory floor to your storage space.)

- Then you’ll **analyze the data** to recognize trends over time. Depending on the area(s) you’d like to focus on, you could look at information about everything from backlog levels to energy usage. Study the information to see where changes make the most sense based on your facility’s goals.

- Finally, you’ll **take action based on that data**, and see if there is a measureable difference from your historical numbers.
Secure Remote Connectivity
ProSoft’s suite of remote connectivity solutions is designed to help you gain secure, streamlined access to your remote equipment from one cloud-native platform that you can access from anywhere, reducing your support travel costs.

ProSoft Connect Platform
- Uses your PC’s operating-system VPN, which minimizes the need for user-installed software
- EasyBridge™ technology enables your PC to act like it is connected directly to a switch on the remote network
- Allows software tools, such as RSWho and Studio 5000, to work without routing
- Virtual Lockout-Tagout™ gives the end user complete control of access to remote equipment
- Power User Plans available for organizations that have multiple projects – organize and secure access to each one
- Multi-layered defense-in-depth approach keeps your data and equipment safe
- No software to install or maintain

Persistent Data Network
- Simple, Secure, Managed always-on remote infrastructure communications network
- Access via ProSoft Connect platform to monitor and troubleshoot each site in your network

Gateways
Industrial Cellular Gateway (ICX35-HWC)
- 4G LTE cellular or wired access via WAN/LAN port; Ethernet port available for Internet connection or SIM card; monitor via ProSoft Connect

Network Bridge (PLX35-NB2)
- Wired remote access; monitor via ProSoft Connect

Data Logger (PLX51-DL-232)
- Ideal for remote sites with limited communications that need to log data
- Can help OEMs identify operational issues and improve OEE
- Data can be downloaded as a .csv file
- Support for 200 tags
- Minimum log interval: 50 milliseconds

Data Logger Plus (PLX51-DLPLUS-232)
- Features support for JSON interface, enabling easy exporting of logged data to business CRM systems; features an integrated webserver to trend variables and upload logged data

CASE STUDY
Being able to securely troubleshoot through a Web platform provided flexibility.
psft.com/DCF

PROSOFT SOLUTIONS
for Secure Remote Connectivity
psft.com/DB6

Check for product availability in your country.
Legacy Rockwell Remote I/O and DH+™ Modernization Solutions

Modernize your legacy control system in phases with OpEx dollars

**AN-X2-AB-DHRIO Remote I/O EtherNet/IP™ Gateway**
- Replace old Remote I/O drives with new drives on EtherNet/IP™ without modifying PLC code
- Replace PanelView™ units on Remote I/O to new PanelView™ Plus 6 models on EtherNet/IP™ without modifying PLC code
- New controllers can utilize existing legacy Allen-Bradley® I/O
- Enables your Remote I/O PLC-5® or SLC™ to communicate with EtherNet/IP™ FLEX™ I/O adapters, giving you a phased migration option when your 1794-ASB spares are gone

**Legacy Competitive PLC Modernization Solutions**

**AN-X(2) Family of Gateways**
- Enables Allen-Bradley® PAC via EtherNet/IP™ to control I/O devices on legacy networks
- Enables a phase-based approach for migrating legacy control systems
- Monitor mode enables testing & verification of PAC logic before controlling I/O

**1761-NET-ENI Replacement – Update Your Legacy DF1 Systems**

Need a 1761-NET-ENI now that it’s been discontinued? The Routing Module can be used in nearly every application as the NET-ENI. Now you can modernize your legacy DF1 control system in phases using your OpEx budget.

- Intelligent routing to ControlLogix® or CompactLogix™ from PLC-5®, SLC™, MicroLogix™ controllers
- Direct-to-tag technology simplifies data mapping, reducing configuration time

**CASE STUDY**

American Castings estimates they saved over $100,000 in lost production and implementation time, as well as 140 hours of troubleshooting and rewiring work. psft.com/DCD

For a list of popular gateway solutions and part numbers, see page 14.
In-Chassis Flow Computer Solutions
For Multi-Well Pad and LACT Applications

- Supports 8-16 meter runs with 4 streams per meter run for the measurement of hydrocarbon gases and liquids
- In-chassis solution brings data directly into your ControlLogix® or CompactLogix™, helps minimize cabinet space
- Pair with Rockwell Automation’s distributed I/O capability + ProSoft’s wireless radios to reduce wiring to transmitters and I/O devices
- Includes the use of EAFC Manager, a free Windows 7-based tool for configuration, reporting, and monitoring; hourly or daily archives with user-selected data are available

- NMi certified for OIML, WELMEC, and MID type approval (AGA/API)
- No additional licensing fee for liquid meter runs
- Add another AFC card in same chassis if more Meter runs are required
- Secure Data archiving / meter run
- Archive records stored in non-volatile memory in module
- Archive data cannot be altered/changed
- Integration to SCADA with Modbus/Enron Modbus support (Cygnet, Autosol, and FlowCal)
- System designs can support more than 80 metering locations

HART Solutions
Gain additional diagnostic information from your distributed process equipment – and boost efficiency as a result.

CASE STUDY
The flow computers helped Pelican Gathering decrease the number of components, minimize their panel space, and streamline integration.

psft.com/DCE

FIND OUT HOW YOU’LL BENEFIT
psft.com/DCB
PROFIBUS Solutions

- Remote configuration and diagnostics
- Solutions for PROFIBUS DP-V0 and PROFIBUS DP-V1
- Multi-Slave gateway solutions for large data transfers
- Support for PROFIBUS DP Master or PROFIBUS DP Slave connectivity
- Supports PA devices through third-party coupler
- DTM pass-through support

IEC 61850 & DNP3 Solutions

IEC 61850

- The ControlLogix® PAC is able to emulate multiple Intelligent Electronic Devices on an IEC 61850 network
- Add-On Instruction provides logical definitions for I/O module status and control data, easing configuration and maintenance
- ProSoft Discovery Service (PDS) software initially sets the module’s IP address, so you don’t have to change your PC to the default subnet of the module

DNP3 Ethernet Module Features

- Ethernet Client supports up to 40 DNP3 Ethernet server devices such as RTUs, IEDs, and various protection relays
- Up to 20,000 points of data
- DNP3 Ethernet server allows the unit to interface to other client devices such as SCADA and DCS systems

C/C++ Solutions

When you need another processor, but don’t want to add a PAC or PC

- Ideal for custom algorithm applications
- Linux Virtual Machine (VM) and C/C++ development environment provided on separate DVD
- VM contains preinstalled toolchain and libraries
- In-chassis solution simplifies your site and brings data directly into your ControlLogix® or CompactLogix™; helps minimize cabinet space
802.11n (abgn) Fast Industrial Hotspots

- Ultra-Fast access point switchover times of less than 10 ms are perfect for applications such as automated storage-retrieval systems, AGVs, and automotive skillet lines
- EtherNet/IP™ embedded object and Modbus® agent support lets users get radio diagnostics into their PAC/PLC, where the information can be analyzed and acted upon, helping to reduce downtime
- WPA/WPA2-Personal (PSK, AES and/or TKIP); WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, AES and/or TKIP)
- Secure digital configuration storage for quick field replacement
- Radios support wireless safety Ethernet networks, ideal for automated material handling applications

2.4 GHz and 5 GHz High-Power Industrial Hotspots are also available for longer-distance applications.

802.11abgn Wireless Plant Architecture

- 2.4 GHz or 5 GHz High-Speed Wireless Network

Automotive Skillet Line Communication

AGV Communication

For a list of popular wireless solutions and part numbers, see page 12. Check for product availability in your country.
Radiating Cable 2.4 and 5 GHz Band
Acting as a long, flexible antenna, Radiating Cable is an alternative to traditional RF antenna systems.

**Features**
- Special coaxial shield design uses slots to radiate RF Signals
- Available in variable lengths
- Pre-assembled cable for easy installation
- Frequency Range: 2.4 GHz, 5 GHz to 6 GHz

**Benefits**
- Wireless signal more stable in terms of response time – useful in communicating with I/O
- Used in metallic environments, rotating/spinning machines, conveyors, AGV, warehousing, and more

**HOW TO BENEFIT**
from radiating cable
psft.com/CXL

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802.11n (abgn) Fast Watertight Industrial Hotspots

- IP67 water/dust rated
- Designed for extreme temperatures (-40° to +70°C), high vibration/shock and hazardous locations (UL C1D2, ATEX Zone 2)
- Ultra-Fast Roaming with under 10 ms switchover times maintains connections for moving machines/platforms
  - Power over Ethernet (PoE)
  - QoS and VLAN for optimum traffic management
  - WPA/WPA2-Personal (PSK, AES and/or TKIP)
  - WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, AES and/or TKIP)
Wireless I/O

What would you monitor if you didn’t have to worry about the cost of running wire?

Whether you have a point-to-point application or many distributed I/O devices, our Wireless I/O solutions are a great alternative to running long wire runs. Eliminate trenching, running conduit, and the need for permits. The system can be expanded as your I/O needs grow.

- Bi-directional
- 868 MHz, 900 MHz or 2.4 GHz
- Each radio can connect up to 16 I/O modules
- Available as Analog I/O 0-10 V, Analog I/O 4-20 mA & Digital/Discrete I/O

Ethernet Frequency Hopping Radios

Available in 900 Mhz or 2.4 Ghz

- License-free wireless communications for Ethernet devices
- Integrated Repeater Mode to extend range and work around obstructions
- Up to 1.1 Mbps RF data rate
- Smart Switch enables automatic peer-to-peer packet routing and optimizes RF performance
- ControlScape radio management software provides configuration and online diagnostics
Ethernet and Serial Gateway Solutions

ProSoft Technology’s stand-alone, DIN-rail mounted industrial gateways provide a means to read or write data from devices on dissimilar protocols. All gateways come with our ProSoft Discovery Service feature. With PDS, you don’t have to change your PC to the default subnet of the module, saving you time during setup.

- Gateways with two Ethernet ports allow you to isolate networks, passing only the data you want between devices
- EtherNet/IP gateways support multiple I/O connections for fast real-time data
- Remote configuration and diagnostics via Ethernet
- SD Card slot for disaster recovery of configuration data
- Up to four Serial ports

**EtherNet/IP to PROFINET Gateways**
Controller and Device versions

**IEC 61850 Gateway Features**
- Fast, real-time data transfers with a maximum of 10,000 bytes in and 9,920 out (PLX82) or 5,000 bytes in and 4,960 out (PLX81)
- Polls up to 20 IEC 61850 server devices
- Application-specific Add-On Instructions are automatically generated
- IEC 61850 IED tags are created in your Studio 5000®/RSLogix 5000™ Project, reducing configuration time and errors
Serial & Ethernet Modbus® Solutions

**Modbus® Serial**
- Module configuration stored within the Studio 5000®/RSLogix™ 5000 project (ACD file) for simplified disaster recovery
- Add-On Profile (AOP) improves integration into Studio® 5000®/RSLogix™ 5000
- Add-On Instruction (AOI) reduces configuration effort and simplifies maintenance

**Modbus® TCP/IP**
- Fast Multi-Server/Multi-Client capabilities
- Add-On Instruction (AOI) reduces configuration effort and simplifies maintenance

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Scalable Modbus® & Modbus® TCP Solutions for CompactLogix™

- Enhanced modules allow up to 10,000 I/O words
- Lite modules allow up to 240 I/O words
- Integrated Modbus® Serial communications in 1734 Point I/O™ applications
<table>
<thead>
<tr>
<th>Model</th>
<th>900 MHz FH Ethernet Radio</th>
<th>2.4 GHz FH Ethernet Radio</th>
<th>802.11abgn Weatherproof Industrial Hotspot</th>
<th>802.11abgn Fast Industrial Hotspot</th>
<th>802.11g High-Power Industrial Hotspot</th>
<th>802.11a High-Power Industrial Hotspot</th>
<th>Industrial Cellular Gateway</th>
<th>Point-to-Point Wireless I/O</th>
<th>Multi-Point Wireless I/O</th>
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<td><strong>Features &amp; Specifications</strong></td>
<td><strong>Device Connectivity</strong></td>
<td><strong>Frequency Band(s)</strong></td>
<td><strong>Regions Unlicensed Use Allowed</strong></td>
<td><strong>Wireless Technology</strong></td>
<td><strong>Max Outdoor Range (miles/km)</strong></td>
<td><strong>Fast Roaming</strong></td>
<td><strong>Repeater Mode</strong></td>
<td><strong>Max RF Data Rate</strong></td>
<td><strong>Security/Encryption</strong></td>
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<td><strong>Ethernet/Serial</strong></td>
<td><strong>902-928 MHz</strong></td>
<td><strong>2.4 G Hz</strong></td>
<td><strong>North America, Latin America, Australia, New Zealand</strong></td>
<td><strong>Frequency Hopping</strong></td>
<td><strong>30 mi / 48 km</strong></td>
<td><strong>Yes</strong></td>
<td><strong>Yes</strong></td>
<td><strong>1.1 Mbps</strong></td>
<td><strong>Proprietary FHSS / 128-bit AES</strong></td>
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<td><strong>2.4 &amp; 5 GHz</strong></td>
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<td><strong>Global</strong></td>
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<td><strong>15 mi / 24 km</strong></td>
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<td><strong>5 mi / 8 km</strong></td>
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<td><strong>Yes</strong></td>
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<td><strong>4G LTE Cellular HSPA</strong></td>
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<td><strong>Internal Firewall, ProSoft ConnectVPN, OpenVPN, IPSec</strong></td>
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<td><strong>Modbus® Serial</strong></td>
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<td><strong>North America, Europe, Australia, Middle East</strong></td>
<td><strong>Frequency Hopping</strong></td>
<td><strong>1-4 mi / 1.6-6.4 km</strong></td>
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<td><strong>Proprietary FHSS / 128-bit AES</strong></td>
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<td><strong>Modbus® Serial</strong></td>
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<td><strong>Frequency Hopping</strong></td>
<td><strong>5-30 mi / 8-48 km</strong></td>
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<td><strong>Proprietary FHSS / 128-bit AES</strong></td>
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<td><strong>Mobile Worker (Wi-Fi)</strong></td>
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<td><strong>EtherNet/IP™ Object</strong></td>
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<td><strong>EtherNet/IP™ Implicit Messaging (High-Speed IO)</strong></td>
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* CompactLogix™ ONLY

Have a legacy product that’s no longer on these charts? ProSoft can help you migrate to a newer solution with expanded functionality.

Learn more about solutions for legacy controllers at psft.com or by contacting your local ProSoft office.

Many of ProSoft’s in-chassis and gateway modules for Rockwell Automation systems feature Add-On Instructions or Add-On Profiles to help you increase efficiency and reduce configuration. Learn more: psft.com/DCC
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Note: The chart above is a selection of products from ProSoft Technology and is not exhaustive. For more information, visit www.prosoft-technology.com.
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Tech Support

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to support our customers at a local level. See Regional Tech Support contact information above.