The ProSoft Magazine

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The ProSoft Magazine

FALL 2013

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From the CEO

It is with great excitement that I have the opportunity to introduce myself to ProSoft Magazine readers. I'm Thomas Crone, the new President and CEO of ProSoft Technology. Yes, you read that right…my first day at ProSoft Technology was October 1, 2013.

I have been following the progress of ProSoft Technology for some time now, and I am honored to be asked to represent this strong brand of extraordinary products. One of the things that attracted me to ProSoft was the fact that they are a company that thinks globally but acts locally. This philosophy extends throughout every part of the business. Sales and support are handled locally, with real people in your time zone who speak your language.

The other attribute of ProSoft Technology I found irresistible is the can-do, get-it-done, larger-than-life attitude that is present in all facets of the company. Whether customers want to change out peripheral devices, update controllers, or upgrade drives, ProSoft experts deliver the know-how to phase migration to newer equipment and avoid the risk of costly downtime and lengthy capital appropriations. Let's just say that I find them extremely impressive.

I look forward to being part of this dynamic group for many years. I also look forward to working with you, our customers. If you plan to be at Automation Fair on Nov. 13-14 in Houston, please stop by our booth and introduce yourself. I'd love to hear how ProSoft Technology can help you solve your automation connectivity needs.

Thomas Crone, CEO

Beauty is in the eye of the beer holder

With its ever increasing variety of brews, Brains Brewery decided it was time to upgrade its yeast handling control process with a Rockwell Automation® CompactLogix™ system and a ProSoft Technology migration gateway.

ProSoft Technology's solution created flexibility for the Brains Brewery automation system.

By Victor Garcia

Whether it's football in the United States or rugby in Great Britain, the two entirely different sports have one thing in common – many of the spectators like drinking their beer. One of the prominent beers in Great Britain is SA, manufactured by Brains Brewery. SA recently celebrated its 50th anniversary. Its tagline or slogan is "It wouldn't be Wales without SA."

Brains Brewery in Wales, founded in 1882, has the beer to satisfy any beer connoisseur, from those who prefer

Continued on next page

Without the ProSoft Technology gateway, a more expensive system would have been required.

BRAINS

Continued

unique craft varieties, such as Calypso and Bragging Rights, to those who like more traditional ales like SA. Brains has a wide variety of brews. Other more traditional brews include Brains Bitter, Brains Dark, and Brains Black. Brains is also famous for its many pubs as well.

Brains, based in Cardiff, Wales, decided it was time to upgrade its yeast handling control process with a Rockwell Automation® CompactLogix™ system. We all know how important yeast is to beer and Brains postponed the upgrade until after the Christmas festive period to avoid downtime. The point here is that downtime, as is often the case in any automation system, was not an option.

Mike Cooper of IAC Engineering proposed using ProSoft Technology's Remote I/O to Ethernet (AN-X2-DHRIO) Gateway to allow the CompactLogix™ system to communicate with six racks of 1771 Remote I/O over Ethernet. He had met ProSoft Technology Regional Sales Manager Myles Heinekey at a Rockwell Automation event in Birmingham. "The main aim of the project was to upgrade two PLC2 Controllers, which were 27 years old. Limited downtime was available, only three days, so the old 1771 I/O racks would be retained, but two obsolete PLC-2® controllers were replaced by the CompactLogix™."

"The commissioning time was reduced massively because the existing Remote I/O cards and wiring could be retained," Mike Cooper noted. "Only the processor and software needed to be added and commissioned, not the field wiring."

With ProSoft Technology's solution, Brains Brewery was able to reduce project costs by installing a CompactLogix™ PAC system. Without the ProSoft Technology gateway, a new I/O system would need to be added and wired in. ProSoft Technology's solution didn't just reduce the project cost. It reduced it by 40 percent in terms of the other option. One additional, yet important benefit of the solution is the system still retains the 1771 Remote I/O cards with the CompactLogix™ processor. This means no additional spare I/O cards need to be carried, and none of the Remote I/O needed to be rewired.

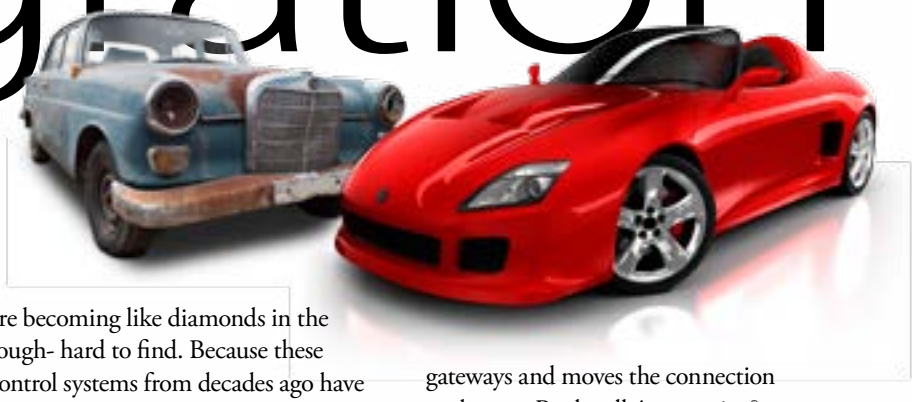
And finally, ProSoft Technology's solution allowed for flexibility at Brains Brewery's automation system. "The Remote I/O to Ethernet gateway allowed a great level of flexibility, so the different racks of I/O could be moved on to a network and controlled from different PLCs, if required," Mike Cooper added. "The ProSoft gateway also gets the I/O data onto Ethernet which can be accessed anywhere on the plant network at a higher speed."

For more information on Brains Brewery visit **www.sabrain.com** or **www.brainscraftbrewery.com**. And for more on IAC Engineering, visit **www.iaceng.com**.

ProSoft Technology migration gateway.

Migration

By Victor Garcia



Think about the automobile you may have had in the late 1980s. Odds are it was a top of the line vehicle of its time, albeit a gas guzzler, and could have featured a technology that was becoming more prevalent called fuel injection. By the early 1990s, every car had it, but automotive technology was still improving. Today, automobiles have far surpassed those of the '80s and '90s, in both design, quality and safety.

Times sure have changed since those decades, but one thing hasn't much. As you drive to your plant in your modern car, you arrive and find a mostly modern operation with new equipment, possibly robots. But there it is, one of the key parts of the operation, which was likely considered modern in one of the aforementioned decades above.

Whether it's a legacy Rockwell Automation® system or a competitive PLC, it's very familiar to you and has done your floor well for all these decades.

Legacy Rockwell PLC migration

Let's say it's a Rockwell Automation® system. You may have replaced a defective I/O module this year, but are worried about your old friend because you don't have any spare I/O modules left. That's right, it has been tried and true all these decades, but spare parts are becoming like diamonds in the rough- hard to find. Because these control systems from decades ago have been so reliable, many have delayed replacing them. Migrating your control system causes painstaking headaches. The thought of downtime can give you nightmares, let's face it. If you upgrade one processor, you have to replace all the I/O. One mistake and your entire process could be down.

Migrating an entire control system all at once is anything but an easy process. There could be weeks of downtime involved. Most control systems out there can't be out of operation for a few days, let alone a few weeks. Sooner than later you are going to have to migrate your control system to a new Rockwell Automation® system with all the bells and whistles. But what if there was a way to cure your headaches, easing the pain of migrating your control system and significantly reduce the downtime involved?

Phased migration solutions are the answer. Control system engineers no longer have to migrate the entire control system at once. They can now take a phased approach. Just because you replace one of your old PLC-5s with a ControlLogix® or CompactLogix™ system, doesn't mean you have to rip out the entire system. With a ProSoft Technology gateway, the ControlLogix® or CompactLogix™ can easily control your old legacy Remote I/O. Using the ProSoft Technology solution, a control system engineer simply installs the gateways and moves the connection to the new Rockwell Automation® processor. If something goes wrong, and you run out of scheduled downtime, you can move the connector back to the existing PLC and continue to operate until the next scheduled downtime.

Legacy Allen-Bradley® Drive & PanelView™ Migration

Yes, we have a phased migration solution for that, too, If you want to extend the life of your existing PLC by just upgrading the Drives or PanelViews. Our gateway solution allows you to migrate old Remote I/O drives and PanelViews to new PowerFlex Drives and PanelView™ Plus 6 terminals on EtherNet/IP without modifying the PLC code.

Competitive Legacy PLC/DCS Migration

Let's say you have a competitive legacy PLC or DCS system on a Honeywell, Fisher, GE, TI, Modicon system, or one of many others. We enable a phased migration approach for these as well. Our migration solutions allow these legacy I/O systems to be controlled by PlantPAx™, ControlLogix® or a CompactLogix™ system.

So migration doesn't have to be, well, a headache.

For more information visit www.prosoft-technology.com

COOLING the "TU

By Bernie Rieskamp
(Jedson Engineering, Inc.)
and Adrienne Lutovsky

Each morning bleary eyed bodies roll begrudgingly out of bed, clunk down hallways and begin their mornings with the squeeze of a tube to a brush. Rarely as we taste our minty morning starts, do we ponder what it takes to produce and package these products.

Recently, a Cincinnati, Ohio-based manufacturer expanded production with a new manufacturing and packaging facility. Jedson Engineering, a full service engineering, procurement and construction management company was awarded a project that involved electrical design, equipment specification and programming.

Cooling the Line with HVAC

On a segment of the line, a cooling tunnel was installed to transport and cool the various skews and products being moved between two stages in production. Temperature and the length of time the product spends in the tunnel are crucial to enable consistent, accurate cooling and solidification of the product. Temperature range requirements vary and must be selectable depending on the product skew and associated parameters.

The objective was to maintain tunnel temperatures within 2.5 degrees of each preset range. To ensure the required precision, vital data associated with the cooling tunnel's chiller system required monitoring, including evaporator pressures, condenser fan status, and alarms. In order to monitor the process from a Human Machine Interface (HMI) along the line, an interface was required between the chiller equipment, which operated on the BACnet protocol, and a Rockwell Automation® ControlLogix® Programmable Automation Controller (PAC).

Communication, Control and Monitoring

With the help of local distributor, CBT Company, Jedson investigated and evaluated several manufacturers that offered this type of communication. Factors under consideration included availability, ease of software application, communication type and rate, and product support. It was concluded that the best solution to provide the precision and reliability needed for the Trane Chiller Building Control Unit (BCU), was the BACnet Communication Module (PS56-

UBE" TUNNEL

The best solution to provide the precision and reliability needed for the Trane Chiller Building Control Unit (BCU), was the BACnet Communication Module (PS56-BAS-406), sold and supported by ProSoft Technology.

BAS-406), sold and supported by ProSoft Technology.

Jeff Ansteatt, PLC/HMI Specialist and Account Manager at CBT Co., comments, "When we at CBT sell our customers a piece of automation equipment that they have never used before, we generally anticipate a need for additional technical help with the item. Due to the expertise of Jedson Engineering and the ease of programming of the BACnet Interface module, no additional support was requested and they had the module working in no time at all."

Bernie Rieskamp, Discipline Specialist, Control Systems and Instrumentation at Jedson Engineering, Inc. adds, "We plugged the module directly into the ControlLogix® rack, quickly configured using RSLogix™ Message Block Reads, and had data transferring between the Chiller processor and the ControlLogix® processor relatively easily."

Data is passed from the ControlLogix® PAC to a line HMI, where operators are able to select a specific screen dedicated to the chiller. The chiller screen affords the operator minor temperature adjustments, change of recipes, and provides essential, real-time chiller information.

Roll-out

As to the outcome of the system, Rieskamp reports, "Performance to this point has been flawless and recent program modifications were seamless."

Jedson is in the process of designing another new packing line. Because of the success and repeatability of this project, they have specified the same BACnet interface module and expect to have the same outstanding results.

Vital I
FROM

The Rockwell Auto
processor, **with Pro**
SMS Texting modu
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Information
A DISTANCE

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oSoft Technology's

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By Victor Garcia

A text message comes in to your phone. You pull the phone out of your pocket, as you're likely thinking the text is from one of the people on your contact list. But it's not a person texting you today. It's your Micro800 SMS Texting Module. Your fire prevention system is calling.

Fire prevention system, you may ask? If you read ProSoft Magazine's Fall edition last year, or happened to be at Automation Fair, you likely know where this story is going, as we wrote about our texting gumball machine. If not, you're about to be enlightened on the Micro 800 SMS Texting Module (ILX800-SMS) in a real-world, more serious, application.

Thankfully, the text message was just an alert telling you of the status of the system. The text message could have alerted you that the system was running, preventing your commercial building from a fire. A system just like the one described was installed at a building in a remote location in Australia. "The SMS-controlled fire pump system is located in a remote, rough terrain, heavy bushland location, with limited access for fire fighting services," said Matt Tomlins, Automation Product Specialist for Australian distributor INACO. Configuration of the system, which was designed overall by Integrity Pumps was very simple.

With the ProSoft Technology SMS Texting solution, coupled with the Rockwell Automation Micro830 processor, INACO and Integrity Pumps were able to configure the system with ease. "We were able to configure it to do whatever we want, such as fuel level monitoring and scheduled test runs."

The fire pump system is fed by two 30 thousand gallon in-ground water tanks, with most of the water being recovered via integrated gutters and drains. The pump is designed to shoot water over a structure from the tanks that surround the structure.

"The system can continue to circulate water until the pump runs out of fuel," Tomlins said. ProSoft Technology's Micro800 SMS Texting module was chosen primarily because of it's flexibility. "Most SMS Texting systems on the market have limited functionality," said Tomlins.

Additionally, the system is configured to send an alarm to the person in charge of the area. "Alarms issued by the system can warn of high temperatures indicating the probability of a fire."

The Micro800 SMS Texting Module, perfect for remote alerts and status messages on small scale applications with Rockwell's Micro830.

Taking the *wrinkles* out of the production process

By Victor Garcia

Man or woman, no one likes wrinkles, well, unless you're a fan of Shar Peis or Star Trek Klingons.

Wrinkles are a sign of old age and people usually avoid them for as long as possible, mainly through the use of cosmetic products. In a production process, though, old, aging equipment can slow down productivity and affect the bottom line.

Merrid Controls took the wrinkles out of a major cosmetic and beauty manufacturer's production process in Poland by installing ProSoft Technology radios. The cosmetics manufacturer had an existing system using an antiquated PC computer as an HMI and a PLC. Spare parts and customer service support were scarce.

The PLC's job was to control the rotating filling process, whether it was perfume, wrinkle cream or any other cosmetic product. "The machine is an important part of the production line, so they decided to modernize it," said Piotr Pasierowski, a control systems development engineer with systems integrator Merrid Controls. And to emphasize its importance, the machine has no backup. If it goes down, so does the entire plant.

"If it stops, all production has to be stopped," Piotr Pasierowski explained. "It's the only rotating filler they have." Yes, you read right, the only one.

Communication between the PLCs was done through an HMI and a Slip Ring communication system. PLCs communicate to each other exchanging values such as pumping speed, rotation speed and how much product to put in each container.

ProSoft Technology and Merrid Controls proposed a radiating cable, also known as leaky feeder, communication system and wireless radios.

"Because it would be the first radiating cable application in Poland that ProSoft Technology sold, they had doubts as to whether it would work," said Krzysztof Hajzyk, ProSoft Technology's Regional Sales Manager for Central/Eastern Europe, Russia, CIS and Finland. These doubts were quickly dispelled after a prototype of the system was built to ensure the radiating cable would work. The prototype was flawless, but would it work on the plant floor?

They installed the system, which included a new PanelView™ Plus, so that it would work parallel to the old HMI, to further ensure its success. The radiating cable was installed inside the rotating table.

> "ProSoft Technology is well known by the end user for its in-chassis modules and gateways. They trust ProSoft Technology solutions."

ProSoft Technology radios were used for communication via Ethernet between the SLC™ 500 5/05 and PanelView™ Plus on one side to a CompactLogix™ on the machine controlling measurements and fillers.

5GHz frequency was used to ensure the IT network didn't influence PLC communication. It has more channels which allow more networks, including the IT network, to coexist in the same area. Migrating to the wireless system was done in a few steps. First they had to migrate to Ethernet enabled PLC, remove the old 18 connections slip ring and at the end install the radiating cable. The last part was the easiest one. It does not need any mechanical changes on the machine.

Benefits of this solution include a solid platform and communications architecture."They have the option to reprogram without stopping the machine," Piotr Pasierowski explained. "Communication is done using only Ethernet so even wirelessly they could reprogram PLCs and the HMI."

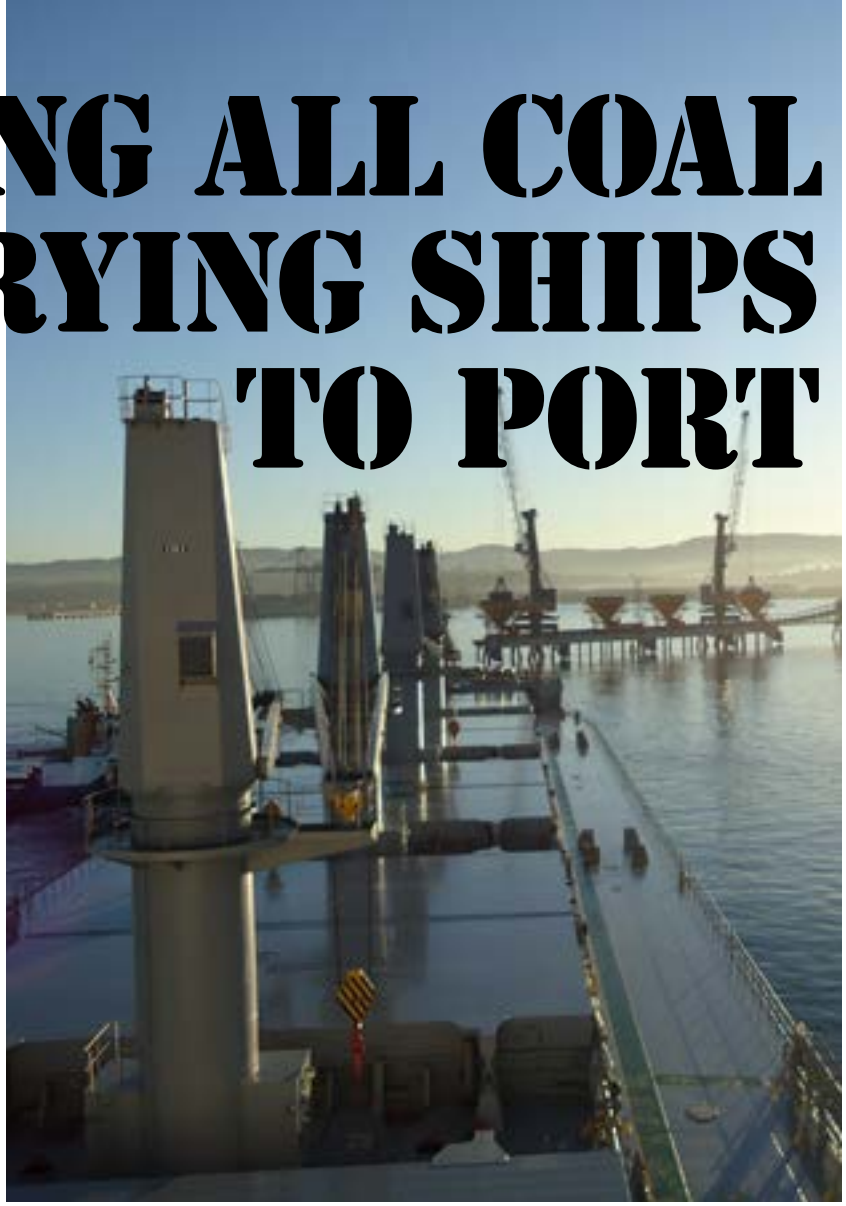
The new wireless system requires less maintenance cost, no stops, full application documentation and backup. It's also possible to connect to a central SCADA system for machine performance measurements.

"Our proposed solution meets all the functionality requirements," Piotr Pasierowski said. "ProSoft Technology is well known by the end user for its in-chassis modules and gateways. They trust ProSoft Technology solutions."

ProSoft Technology radio and radiating cables.

CALLING ALL COAL CARRYING SHIPS TO PORT

With the addition of ProSoft Technology PROFIBUS modules, Puerto de Coronel has robust and reliable communication to their drives.



By Victor Garcia

Transportation infrastructure near coal power plants is vitally important, especially to those that are geographically isolated. Most cities in Chile are west of the vast Andes mountain range. Chile, unlike Venezuela and other countries in South America, is not a large producer of coal. This means most of its coal has to be imported, making ports essential.

A new coal power plant was built in Coronel, Chile in early 2010. Before ships carrying coal could be called to port in Coronel, Chile, a system had to be installed from the ground, or sea level, up.

Puerto de Coronel S.A., a leading multi-purpose port in Chile and the largest port operating in the Bio Bio region, has been operating in the Bay of Coronel since 1996. The port had the challenge of building a five conveyor system to transfer coal from the incoming ships over a total of three kilometers of ocean. Each conveyor had either a ControlLogix® or CompactLogix™ PAC with Siemens drives. Cranes would grab loads of coal off ships and place the coal onto the conveyors.

The challenge: Operate the process as robustly as possible and allow each family of automation equipment to communicate despite being from different vendors.

ProSoft Technology's MVI56 and MVI69 PROFIBUS modules were chosen as the in-chassis modules used for the ControlLogix® and CompactLogix™ controllers respectively to communicate and collect data from the Siemens drives. EISER, the systems integrator, decided to utilize a communication network over fiber optic Ethernet at the PAC level to carry all the process information to the SCADA system.

This allowed the Puerto de Coronel S.A. to collect information and command the motors that move the conveyor belts in a completely integrated system.

"As a Rockwell Automation Systems Integrator, we decided to use ProSoft Technology solutions, because of the local support in the region, available documentation and good experiences in similar applications we've implemented," said Jorge Toledo Jara, an EISER engineer.

Jara explained that there weren't any problems implementing the ProSoft Technology PROFIBUS modules. Installation was simple. "The technical documentation was accurate," he said. "Thanks to the simplified configuration of the Prosoft Technology's modules using ProSoft Configuration Builder software, the start-up of the PROFIBUS DP network and control system in general, was very simple and fast."

With the addition of ProSoft Technology PROFIBUS modules, Puerto de Coronel has robust and reliable communication links between the PACs and the Siemens drives that control each of the conveyors.

Keep the Motors running... safely!

The KIA Motors plant in Slovakia, which produces the cee'd, Venga and Sportage, decided to install industrial wireless solutions at its automobile stamping and press operations to further improve safety at the plant.

By Victor Garcia

Sleek and luxurious are two words that could be used to describe the 2013 SUV KIA Sportage. The KIA cee'd, on the other hand, could be best described as sporty yet economical, with Diesel models achieving more than 60 MPG (less than 4 litres/100km) in fuel economy.

But before any of these shiny, sparkling automobiles shows up on your auto dealer's showroom floor, the cars, like any car out there on the road, has gone through a series of processes at its factory of origin.

Without wireless communication, maintenance on the overhead cranes was a tedious process.

The KIA Motors plant in Slovakia, which produces the cee'd, Venga and Sportage, decided to install industrial wireless solutions at its automobile stamping and press operations to further improve safety at the plant. Cranes transfer stamping dyes to the main press lines. Here is where parts such as doors, fenders and hoods are produced.

"It was necessary to connect the overhead cranes to one network to be able to access the PLC from any maintenance computer in the Auto Press shop," said Tomas Potocar, Engineer with KIA Motors.

The purpose of the project was to communicate from the maintenance room to the Allen-Bradley ControlLogix® Controllers.

Before the plant chose ProSoft Technology's 802.11n industrial radios, maintenance on the overhead cranes was a tedious process.

"The overhead cranes were separate devices without any connection to computers used by the maintenance department," Tomas Potocar said.

Continued on next page

KIA

Continued

Because of this, engineers had to climb up 14 meters of stairs or a ladder to access the crane controller to connect it directly to a processor for diagnostics.

"Only if the crane is in 'home' position near the step, then the maintenance guy could get to its cabinet in 10 minutes. Now it's possible to get access from the maintenance room immediately," said Josef Nekvinda, engineer with Rockwell Automation. Cranes now can be accessed from the maintenance computer at any stage with the ProSoft Technology wireless solution. This results in much less downtime.

With ProSoft Technology's wireless solution, one 802.11n radio is on each of the five cranes, and a radio in the maintenance room.

Tomas Potocar and his team were at Automation University in Podbanske, Slovakia, where they learned about ProSoft Technology's portfolio of wireless products.

"Shortly after hearing this presentation, a discussion about KIA Motors needs started," Tomas Potocar said. In choosing ProSoft Technology wireless solutions, KIA Motors wanted to ensure there was a constant, reliable connection between the PLC and the maintenance computer antenna.

"I had already received all necessary information, and I found that ProSoft Technology knew the tools we needed," said Tomas Potocar. "Installation was rather simple."

Implementing a wireless solution took much less time to commission than a possible wired solution.

KIA Motors is satisfied with the solution. "It helps us diagnose overhead cranes and monitor signals during the production from a safe position."

KIA Motors has a ProSoft Technology 802.11n radio on each of the five cranes, and also in the maintenance room.

25 YEARS OF MODBUS

'88 EIGHTY EIGHT		Modbus Slave Communication
'91 NINETY ONE		PLC-5® Modbus Communication
'93 NINETY THREE		Flex® I/O & SCANport™ Modbus Communication
'95 NINETY FIVE		SLC™ 500 Modbus Communication
'00 TWO THOUSAND		ControlLogix® Modbus Communication
'04 TWENTY OH-FOUR		Modbus Gateway Communication
'12 TWENTY TWELVE		ControlLogix® Enhanced Modbus Communication
'13 TWENTY THIRTEEN		CompactLogix™ Enhanced & Lite Modbus Communication

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Rockwell Automation
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Where Automation Connects™

Spot the Difference

It looks like we're beyond help, but please...

Help us organize our desks.

There are 12 differences between the two pictures. See if you can find them.

Answers are upside down at the bottom.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1. Gollum's Feet are crossed the opposite way. 2. R2D2's head is facing a different direction. 3. iPhone is on a different screen. 4. Picture on the monitor is different. 5. Skull is turned backwards. 6. Pig's platform is gone. 7 Godzilla is holding a different weapon. 8. Left I love Lucy glass turned. 9. Red ribbon on far left is blank. 10. Green lady object above the monitor is gone 11. Spots on top of Bobba Fett's head are missing. 12. The word "Most" on the blue ribbon is gone.

Were You There?

Automation Fair 2012

Held in Philadelphia, PA, Automation Fair offered non-stop learning, networking and a show floor experience that demonstrated the latest in automation technology. As always, ProSoft was proud to be part of it.

Were You There?

More from **Automation Fair** 2012

ProSoft Provides Product Training at Rockwell Headquarters

ProSoft Technology's Ken Roslan, Marketing & Training Manager; Bobby Maxwell, Strategic Product Analyst; and Brian Gray, Product Training Coordinator offer instruction on ProSoft products to Rockwell Automation staff in Cleveland, OH.

Technology Trends in Lima, Peru

Regional Sales Manager Antonio Ramirez speaks with an attendee at Rockwell Automation On The Move event in Lima, Peru.

Rockwell Event in Italy

Regional Sales Manager Andrea Mazzucchelli was at a Rockwell event in Italy earlier this year.

Asia-Pacific Application Story Winner

Yunis Bastian, left, receives an iPad for submitting an application story to ProSoft Technology as part of a contest.

The ProSoft Magazine

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