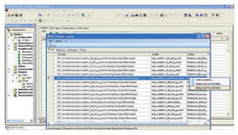
Solution Lifecycle Integrated

Collaborative Automation by Schneider Electric

Itris Automation Square

Schneider Electric Collaborative Automation Partner Program



Example of analysis results with PLC Checker plug-in for Unity

- PLC code conversion to newer Unity environment
- Rule verification tools help automation engineers imporve PLC code quality and performance
- Generate PLC program documenation more easily

Introduction to Itris Automation Square

Itris Automation Square (IAS) is an innovative software vendor offering development tools for PLC programs that make traditional computer science techniques available to automation engineers.

IAS packages static analysis, software qualimetry, code transformation and high level abstraction techniques into easy-to-use tools that help improve the productivity and quality of PLC program development teams.

Flexible and customizable, these tools can be integrated into your own development environment and take into account both legacy and current PLC programs from the main PLC vendors like Schneider Electric.

Users of IAS include end users, system integrators and certification agencies such as Tetrapak, Sanofi, Merck, Renault, Ferrero, Det Norske Veritas, and Areva.

Total Services

IAS offers 4 types of services around its products:

> PLC program conversion using IAS state of the art automatic PLC Converter tool.

> Consulting and training around PLC Checker, IAS's automatic coding rule verification tool. Our team helps our customers define coding rules and put in place a verification process to ensure higher quality and better maintainability of PLC programs.

> Reverse engineering and automatic documentation generation of PLC programs.

> Advanced software tools development based on customers needs including projects such as PLC virtualization or automatic code generation from Matlab/Simulink.

All these services can be based on web technologies which are at the heart of our Software as a Service model, thus allowing better collaboration between distributed teams.

Total Systems

All IAS products support programs for both legacy Schneider PLCs (Telemecanique TSX, April Orphée, SMC and PB) and current ones (PL7-PRO and Unity-PRO). IAS has been collaborating with Schneider Electric since its inception around 2 main topics:

> PLC Converter is used massively by Schneider service teams to ensure programs conversion from legacy Schneider and from competition PLCs (Siemens STEP5 and Rockwell PLC5 and SLC500).

> PLC Checker is integrated with Unity Pro – and that integration has been developed and validated thanks to the CAPP program – thus making it far easier to use for automation engineers. IAS and Schneider have also entered a commercial partnership and distribution agreement around PLC Checker.

IAS believes in open technologies and easier interoperability. The heart of IAS technology is a neutral pivot language. The company relies on lean development processes based on pragmatic analyses of customer needs.

Total Solutions

Through daily exchanges with Schneider service and R&D teams in France, India, Germany, Italy, UK and the US, IAS strives to enrich the software development tools offering for Schneider PLCs.

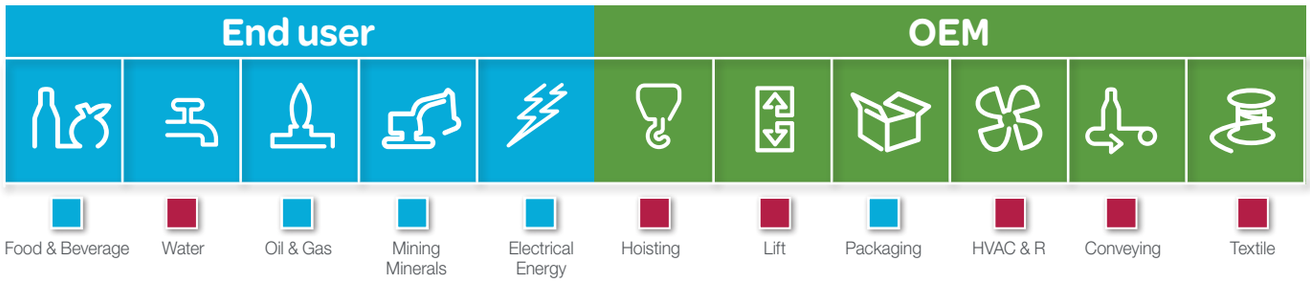
More than 30 man*years of R&D have been invested into our tools that have been deployed on large scales at customer sites and IAS tools have been used to analyze and convert almost 4000 programs.

Unique value proposition

Control of advanced processes is key to today's technology and requires more and more software intelligence. With their partnership, IAS and Schneider, offer tools that help cope with the increasing complexity of that software, keeping it maintainable, increasing the productivity of development teams and ensuring the right level of quality.

Market served

Primary sectors of activity Secondary sectors of activity



Areas of expertise

> **PLC programs conversion**

> **PLC programs reverse engineering**

> **PLC program quality**

Authorized CAPP products

Authorized CAPP products	Product description	Distinguishing characteristics
PLC Checker	PLC Checker is an automatic coding rules verification and qualimetry tool for PLC programs.	Automatic verification of both standard and custom sets of rules. SaaS model over the Internet allowing easy collaboration between end-users and system integrators. Integration with PLC vendor development environment and third party tools.

For more detailed product information, please consult: www.automationsquare.com www.plcchecker.com

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