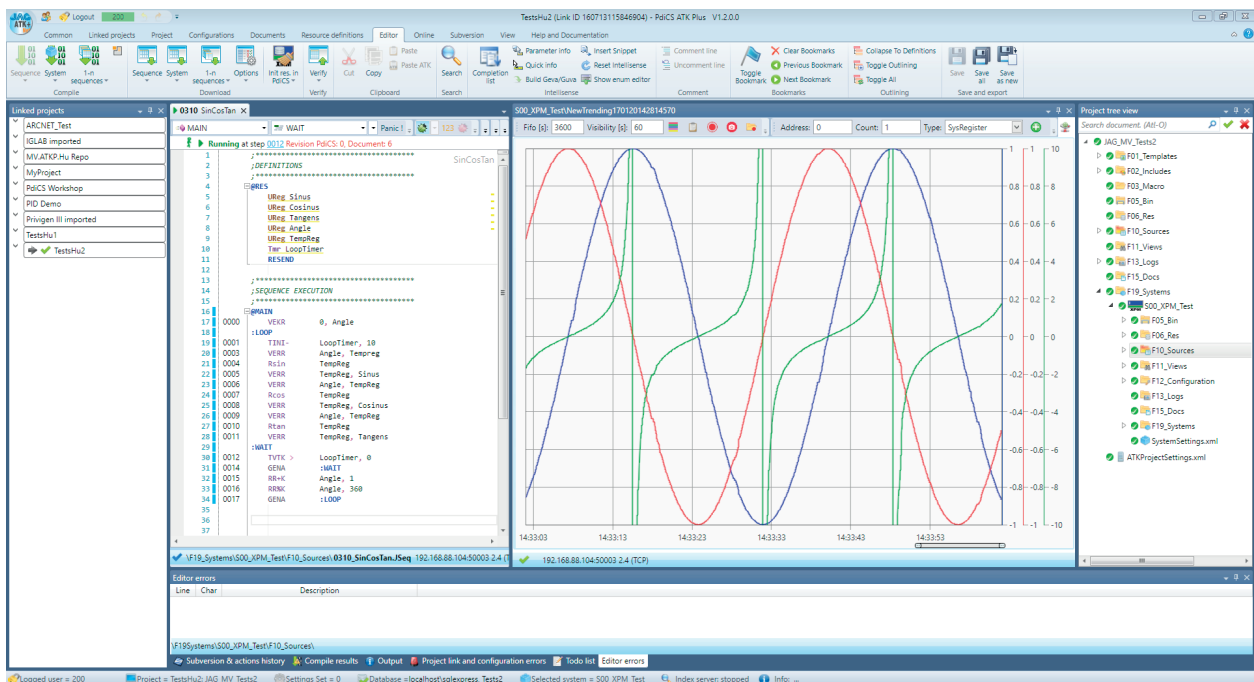


JAG ATK+ Migration services and training



Summary

In early 2016, JAG Jakob Ltd Process Technology introduced ATK+: a powerful, new generation of programming environment for JAG PdiCS controllers.

Ever since, the ATK+ has proved its efficiency and reliability in various customer projects in the food and pharmaceutical industry.

The aim of this document is to present the advantages of a migration to ATK+ and to give an overview of the services provided in this context.

Why migrate existing applications to ATK+?

The reasons can be summed up in two categories:

- to streamline the maintenance and further development of the applications
- to benefit from Windows 10 support, new hardware, new SPAS instructions and continuous improvements in ATK+

ATK+ features that allow streamlining of maintenance and further development of existing applications

- Document management using Apache Subversion (SVN) allows an immaculate version control and teamwork across multiple locations
- The new editor with automatic code completion, syntax check and formatting allows a significant gain in productivity
- Commissioning and troubleshooting is substantially simplified thanks to specialized tools:
 - observing variables using online trending (shown in the screenshot above)
 - display of the current value of variables as tooltip within the code
 - a wizard for self-tuning of PID controllers (shown on the next page)

Benefit from new hardware, new SPAS instructions and continuous improvements in ATK+

ATK+ is continuously being improved and extended with new features. This is no longer the case with its predecessor ATK, which bases on the technology of the early nineties and is no longer the subject of further development.

Besides getting access to an up to date programming environment with Windows 10 support, a migration to ATK+ allows the use of new hardware (e.g. JAG PdiCS+ XIO modules) and firmware features (e.g. new SPAS instructions).

Migration services

ATK+ comes with a system migration utility that allows a structured, efficient and safe migration of projects created with ATK. The typical steps of a migration are:

- Test import of the existing project
- Identification of migration issues, implementation of corrections in ATK if necessary
- Comparison of the machine code generated by ATK and by ATK+ to ensure a successful migration
- Import into ATK+
- Upload of the configuration of all modules to ATK+
- Validation of the change according to the requirements of the plant operator

Training

A key factor of a successful migration is getting the support people and programmers of the plant operator up to speed with ATK+.

The training for users with ATK experience typically takes two days and covers the following topics:

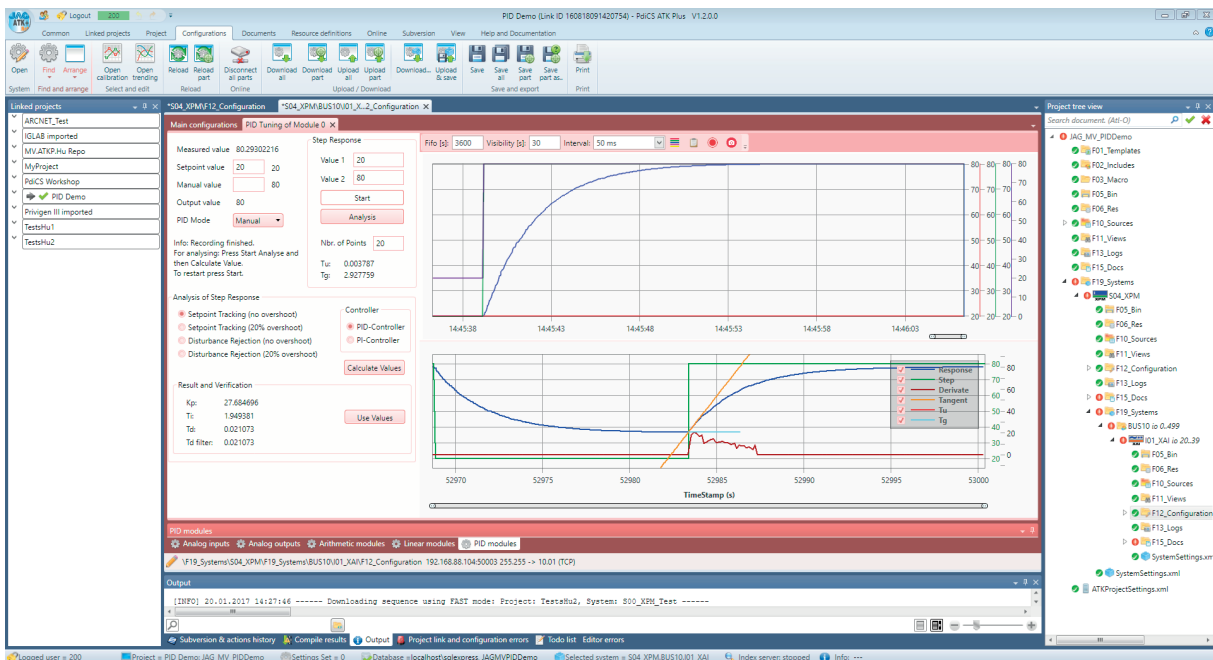
- ATK versus ATK+: what's new?
- System overview
- Document management
- Resource management
- Scenarios for teamwork
- Working with an existing project
- Creating a new project
- Adding systems and PdiCS-BUS stations
- Communication with PdiCS modules
- Editor features
- Namespace for software resources
- Compiler directives
- New SPAS instructions
- Test, commissioning and debugging
- Specific aspects of the migrated projects

The training program can easily be adapted to match specific requirements. An ideal number of participants for this kind of training is one to four persons

Minimum downtime and validation effort

Each migration project is slightly different, but minimizing the downtime, validation effort and project risk are common factors. A migration should therefore be planned in good time and implemented in a controlled manner.

Thanks to the system migration utility, we are able to offer seamless migrations with little or no validation effort. We would be pleased to provide an individual offer for migration services and training.



Wizard for self-tuning of PID controllers