

Product Line Information System 3.1

AREA OF COMPETENCES: Embedded Systems
INDUSTRY: Appliance Industry and Microelectronics

CHALLENGE



The Product Line Information System (PLIS) of Agramkow is a software solution for the management of cold-producing equipment production line. Such a product line contains several machines, each performing specific tasks (fluid filling, electrical tests, thermal tests, so on).

All the machines, functionally grouped in areas, are managed by the PLIS. The challenge of the project was to move parts of the PLIS (mainly the presentation layer) from C++ COM platform to C# .NET platform. The UI had to be re-engineered, and powerful third party user interface controls were used (Dundas, Janus, Magic Library). The system had to be DB-independent (PLIS must work on either Microsoft SQL Server, Oracle or Access databases), and also as flexible as possible, since it has to support whatever new production line equipment Agramkow provides.

SOLUTION

A plug-in interface was established and used in close collaboration with Agramkow software experts. This ensured the needed flexibility.



SQL queries for the target DB platforms were stored in XML files.

UI was fully re-designed, based on concepts demonstrated by the customer.

A specific Multilanguage framework was implemented, as the system had to be able to support new languages loaded “on the fly” by the user.

An UI API was implemented in order to leverage the power of the third party controls and to end up with a simple, efficient and intuitive UI architecture

ABOUT OUR CLIENT

The AGRAMKOW Group consists of AGRAMKOW Fluid Systems A/S and RTI Technologies, a wholly owned subsidiary in the USA. Both companies are making an active contribution to the environment through their Global Environment Projects. At the heart of the AGRAMKOW's way of working is our vision to be the most admired company in our industry for its applications expertise, partnership, productivity technologies and solutions. Always on the vanguard of new performance technologies, AGRAMKOW has continually pioneered new capabilities in response to the rapidly changing needs of the consumer and commercial appliance, air conditioning and automotive industries.