



Quality Improvement of Embedded Software

Project background

Our client in Fribourg, Switzerland, needed to implement a static code analysis solution. They required support in the evaluation, setup and maintenance of the tool.

The client

Our client is a world leader in the design and manufacture of vibration monitoring systems for propulsion units and machinery used in commercial aircraft, helicopters, military aerospace, and industrial and marine installations. They also provide instrumentation for rocket engines and nuclear applications. The company is a wholly owned subsidiary of a multi-national high tech manufacturing company, whose annual sales in 2007 exceeded £670 million and employs approximately 6,000 people worldwide. The holding operates through four business units: Sensing Systems, Aero-space Equipment, Aerospace Braking, and Defense Systems. Our client is a member of the Sensing Systems business unit.

Challenges

SynSpace had to put in place a four-way partnership including the client, the software producer, the database vendor and the integrator (SynSpace).

Stakeholders are spread in three different countries. Communication issues were very important concerns in this type of engineering support project.

Project scope and the role of SynSpace

SynSpace set up a plan to deliver the service. The plan contains:

- Consolidation of software requirements.
- Identification of potential solutions.
- Setting up an appropriate communications plan for all stakeholders.
- Selection and installation of software.
- Consulting services.
- Assistance and maintenance of the analysis solution.

Results

Our client has now one of the most efficient static code analysis solution. Every new release version is rapidly installed and maintained by SynSpace without disrupting daily activities of the client. The communication plan set in place by SynSpace facilitated the smooth running of the project and later of the maintenance operation.

Measurable business value

- The maturity of the embedded software solution has increased.
- Sensible cost reduction of software testing due to the implementation of the new tool.



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