



**Semantix**  
INFORMATION TECHNOLOGIES

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**Company Profile**

# Company Profile



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## Excellence in software development

Semantix offers services and solutions in software engineering. Our primary goal is to exceed client expectations with technical and service quality of the highest value, through consistent collaboration, responsiveness to variant needs and cost effectiveness.

Our mission is to offer to our clients robust and high quality custom solutions as well as a reliable alternative to in-house resources for software development.

Semantix provides in-depth services, working together with customers to identify needs and solution options; it then plans and implements projects which respond to its customer's current and evolving requirements, operating environment and financial resources.

Semantix projects are carried out in the fields of engineering, telecommunications, defence systems, computer science and information systems. In each area, Semantix can provide a turnkey solution or take responsibility for specified project phases. With customer satisfaction the ultimate goal, each project is carried out in close cooperation with the client, ensuring a cost-effective, optimised solution.



With a development team of software engineers in possession of cutting-edge expertise in their specialized domains, Semantix offers a complete solution, during all phases of the life cycle of the project, from concept, discussion of initial ideas through to design, development, integration, and continuing support.

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## Understanding client's needs

The development process starts with our efforts to gain a complete and thorough understanding of the client's needs and requirements. We work hard to get every requirement specified and written up in advance of project initiation. We then specify the project team and estimate time, duration, and cost. Further project planning and a general critical path analysis then yield the tasks and deadlines, which must be met for the project to be completed on time and on budget. We believe in the value of a rapid prototyping phase to incorporate customer's feedback back into the designing process as early as possible.

## Designing the solution

Semantix is a strong proponent of object-orientation and of the idea of separating design, specification and interfacing allowing the systems we develop to survive technology changes and the emergence of different middleware platforms for inter-process communication. We adopt a holistic view of the applicability of object oriented patterns in a variety of contexts and have geared our development methodology towards the use of UML for analysis and design and the use of UML-based tools for round-trip software engineering. We use development tools that guarantee that the software we develop is always synchronized with its design specifications so that the original blueprints are constantly evolving and do not become obsolete and irrelevant artifacts. We also subscribe to the idea of using



technology neutral IDLs to define the interfaces between subcomponents of our system and / or external systems to facilitate the smooth integration of subsystems which are built using different baseline technologies (CORBA, EJB/J2EE, .NET, XML/SOAP).

## Development

We have experts in C, C++, Ada, Java and Assembly programming for a variety of OS platforms. Our software development policies are modelled around the Software Engineering Institute's Capability Maturity Model (CMM). Semantix is committed to using up-to-date technology supported by dedicated and responsive technical staff

## Validating the solution

We are constantly honing the skills of our people through the organization of frequent training sessions, the application of uniform coding standards specifications, and the employment of walkthrough sessions and peer review procedures. These quality assurance measures make sure that all coding adheres to a coding standard and facilitate code integration and consistency. Senior engineer review procedures are conducted on all projects before integration to ensure high quality of work. —●