



CERTICON Technology Brief

CERTICON at glance

For more than 14 years, CERTICON has been improving the competitiveness of our clients around the world. CERTICON solutions are comprised of the full spectrum of services and solutions in software development, system integration and quality-assurance verification testing. Our experience in the fields of medical and mission-critical applications, high-tech industrial and enterprise applications enables us to harness the best practices and solutions for our clients. CERTICON designs, develops, rapid-prototypes and deploys sophisticated software solutions.

- Software Engineering
- Consulting Services
- ASIC a embedded electronic design
- Informatics & Applied Research

Software engineering

■ Software development

CERTICON's software development concept proceeds "from rough idea to finished product". CERTICON provides services covering the full software development life cycle, starting with the feasibility study, through specifications, analysis, design, implementation, review and software verification activities and ending with integrated system verification testing.

We have both the know-how and experience for generating re-usable generic solutions or creating kick-off designs for large information systems. We are ready to join you in any software development life cycle phase and begin providing high quality, on-time and cost-effective services.

■ Outsourcing a Co-sourcing

CERTICON leverages a suite of proven methodologies and techniques guaranteeing that our outsourcing and co-sourcing services bring real value to our partners.

CERTICON Outsourcing and Co-sourcing Platform (COCP) provide complex solution support for your need of highly skilled engineers or teams for SW development and verification in any application industry, anywhere world-wide.

COCP is an established suite of methodologies, techniques and tools tested and proven by our many projects and recognized by our partners and clients. The business model we offer has created true added value for our clients for more than 10 years.

CERTICON SW development:

- Software design and development
- Software rapid prototyping
- Multi-platform development
- Web applications
- Databases

Key technologies:

- Java JSE, JEE, PHP, JSP, JSF, JScript
- Net C#, C++, C, WPF, WCF
- Google Web-toolkit, Hibernate
- MS Win, Linux, Unix, iOS

CERTICON co-sourcing features:

- Certified SCRUM and PMP masters
- Proven agile methodology
- More than 10 years of experience

CERTICON co-sourcing features:

- Resource leveling
- Budget control
- Compressed schedule
- Shortened development cycle

Mobile computing

CERTICON exploits its rich and varied experience with software development and diagnostics in mobile technologies. We specialize in development for Google Android and Apple iOS mobile platforms. Our main focus is on applications to support our client's businesses.

■ Business integration

CERTICON started to build its capabilities in the field of enterprise integration several years ago. A specialized expert group is dedicated to solving business integration projects. The main focus of business integration in CERTICON is service oriented architecture, system integration and data integration.

With experienced integration architects and developers, both skilled in service oriented architecture, messaging concepts and integration middleware, CERTICON is able to deliver top quality professional services and integration solutions. This ability is supported by continual utilization of enterprise architecture practitioners in CERTICON.

Enterprise application integration

CERTICON gained system integration experience in various projects mainly finance, telecommunications and government sectors. Our main focus is in following areas:

- Service oriented architecture, event driven architecture
- Messaging, RPC, ETL
- Enterprise service bus, brokering, publish & subscribe
- Business rule management, knowledge-based mediation
- Business process analysis and management

Analytical data management

- Data integration & data consolidation
- Data mining, data prediction
- Text look-up & data feature extraction

User interface integration

CERTICON gained its UI integration experience mainly in finance and government sectors:

- Web portals & web mashups
- Front-end integration

■ Software testing & diagnostics

CERTICON's software testing solutions are designed with focus on ultimate quality outputs, unsurpassed reliability and expertise. CERTICON offers up to 100% automated tests in projects which reduces the cost of test execution.

CERTICON testers are experienced in using special tools for test automation such as GTS, TestComplete and QFTest and automatic testing of web applications using PAMIE or WEBTest.

IBM products support

- IBM WebSphere Application Server
- IBM WebSphere Message Broker
- IBM WebSphere MQ
- IBM WebSphere Portal
- IBM WebSphere DB2

Microsoft products support

- Microsoft Biztalk Server
- Microsoft Server
- Microsoft SQL Server
- Microsoft Active directory
- Microsoft Sharepoint services

Other products

- Liferay portal
- Oracle DB
- JBoss Application Server

Provided methods for SW testing

- Functional testing
- Stress testing
- User acceptance testing
- Unit testing
- Exploratory testing
- Load & performance testing
- Regression testing
- Security penetration testing

Consulting Services

CERTICON consultants provide professional services based on valuable know-how which they have gained from long experience, intensive self-education, and by following the latest IT trends. CERTICON emphasizes the importance of self-study and knowledge sharing among its employees. Our consultants' skills are enriched by the experience from projects in various vertical fields in both Czech and international IT markets. The quality of our consultants is mirrored in their specializations, and is proven by their professional certifications.

■ Enterprise architecture consulting

CERTICON EA consultants are certified in the internationally acclaimed TOGAF 9 for developing enterprise architectures. EA consultancy services are enriched by knowledge from practical experience in various enterprises, supported by taxonomies and processes of other EA frameworks like E2AF and Zachman.

Enterprise Architecture Scoring as a Service

- Evaluating the level of EA maturity
- Scoring the quality of EA in various enterprise segments using customized E2AF scorecard technique



■ System integration consulting and SOA

Thanks to our expertise, CertiCon can help to develop and manage system integration for companies using a large number of interconnected applications for solving processes. This comprises consulting services by certified experts, namely in the following fields:

Integration Review as a Service

- Evaluating the level of system integration on site
- Designing architecture for successful system integration
- Design and kick-off implementation of SOA on site
- Creating the roadmap for SOA development in IT, based on business development strategy

■ IT security consulting

CERTICON has a strong background in computer security, both in technical solutions and consulting. We provide expertise in security, which includes:

- Penetration testing of web portals, applications and overall IT infrastructure
- Security assessment of software architecture and application source codes
- IT security compliance assessment
- Risk analysis and business continuity plans

■ Management podnikových služeb

We support our customers by aiming to implement ITIL framework representing best practices in this area.

- ITIL compliance assessment
- Consultation on implementation and optimization of ITIL processes
- Delivery and implementation of selected Service Desk platforms

Informatics & Applied Research

CERTICON closely cooperates with top research labs at several universities: Gerstner Lab, Czech Technical University in Prague, the Christian Doppler CD-Flex Labor, Vienna University of Technology. , These world-class organizations provide us with access to their newest technology research results.

- Decision support and prediction algorithms
- Planning & scheduling multiagent solutions
- Environment modelling & simulation
- Machine perception
- Image, text and speech recognition

- To elaborate a feasibility study for your project or challenge
- To find appropriate technologies fitting your intention and needs
- To find the best scientists competent to work out a solution for you

Competences in electronic HW design

Embedded systems design

- low power battery operated systems
- wireless systems and antennas design
- high reliable and robust design
- prototype manufacturing and verification

Analog and mixed mode ASIC design

- complete design flow up to tape out (GDSII)
- prototype verification
- production test preparation (FLEX)

Contact us

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