

## DEVELOPMENT OF THREE HOSPITAL INFORMATION SYSTEMS USING ADABAS AND NATURAL

### Challenge

CSC Scandihealth had three goals on the way to reaching its overall goal: To become a market leader in Denmark within electronic patient records; to maintain the Nordic countries as a home market; and to develop the company into a “Centre of Excellence” within European healthcare.

### Solution

The development of healthcare solutions is based on the Adabas database system and the development language Natural, both from Software AG. Competition among the Nordic countries is fierce in this area but today CSC Scandihealth is the largest player both in terms of turnover and market shares. This is primarily due to 3 successful applications created in a development environment from Software AG.

### Benefits

- Using CSC Healthcare’s IT solutions the health sector is able to coordinate efforts and focus follow-up measures, both in terms of professional efforts and resource allocation
- Opportunity for healthcare institutions to reach the overall goals of high healthcare quality, full information and shorter waiting lists, user satisfaction, better information about service and quality, and effective use of resources



CSC Scandihealth is the largest healthcare IT company in Denmark and delivers electronic patient record systems to the health sector and nursing records to Danish local authorities. The company also operates many of its customers’ IT systems. This work requires a staff of welltrained IT professionals with healthcare experience. The CSC Scandihealth headquarters is located in Aarhus and the sales office in Taastrup. The company employs a staff of approximately 280 within software development, operations and technical support, consulting, services, sales, and marketing.

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**“Software AG offered the most flexible development tools.”**

Laue Nørgaard, Technical Director & Niels Karsten Thorhauge, Development Director | CSC Scandihealth

### Intensive search for an effective development tool

“Our co-operation with Software AG started in the 80’s when we were faced with choosing a new technology for our IT solutions”, say Laue Nørgaard, technical director, and Niels Karsten Thorhauge, development director. “It was a hard decision requiring thorough consideration so we studied no less than 5 different solutions from various suppliers. We wanted an effective development tool suitable for creating a standard system for developing patient records. Eventually, we chose Software AG because they offered the most flexible development tools. Furthermore, we considered Software AG a very responsive partner with whom it was easy to communicate.”

### Major systems running the way they are supposed to run

“Using the Natural development language and Adabas database system from Software AG we have developed 3 large systems which have been used for a substantial number of years in hospitals and health insurance – and which are still used,” say Laue Nørgaard and Niels Karsten Thorhauge. “I think we can safely say that these systems have been important for our existence, and they will continue to be so for a long time. They are simply running the way they are supposed to run.

Hospital Information Systems (HIS) are integrated in everyday tasks in hospitals. HIS systems are used by more and more employees for an increasing number of tasks. Today there are approximately 70,000 users of CSC Scandihealth’s HIS systems - GS, GSåben and OPUS.

OPUS patientforløb and OPUS Booking together make up a completely new patient administration system with a graphical user interface, modern Successful applications Pharma and health care Denmark word processing, and new, sophisticated booking and planning features. Our work with these products is limited to a small amount of further development and “budding”. In short, I have to say that we know Software AG as a secure and reliable supplier. By the way, CSC Scandihealth is not the only company in the group to have chosen Software AG as a partner,” Laue Nørgaard and Niels Karsten Thorhauge add. “Many of our sister companies also use their development tools successfully.”

### KEY COMPONENTS

All mainframe applications are written using Software AG’s Natural programming language.

Customer information, policy management and claims systems reside on Software AG’s database management system, Adabas.

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#### ABOUT SOFTWARE AG

Software AG’s 4,000 global customers use our software to improve business processes and drive an agile IT infrastructure. Our customers’ goals are to reduce costs and increase flexibility and efficiency. We help them do this by optimizing and governing their operations and aligning IT with the business goals.

Our leading Business Infrastructure Software portfolio is used for data and system integration and modernization. It fosters new levels of IT agility through SOA and allows the rapid creation of new business processes with BPM.

Our forty-year history of success ensures our customers have a reliable platform for driving future business results – faster.

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