

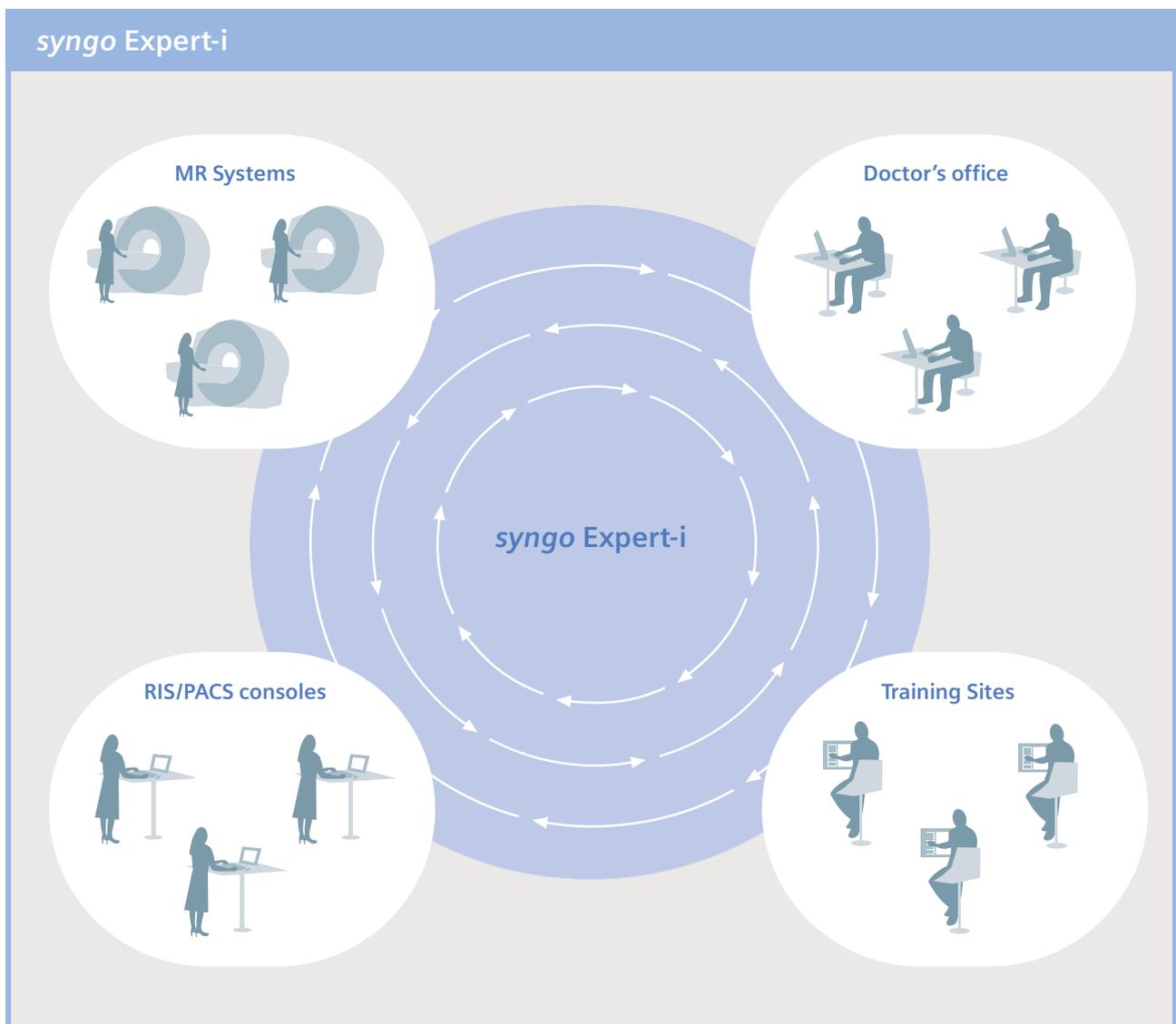
# syngo Expert-i, the Interactive Access to MR Examinations

Heinz-Peter Schlemmer, M.D.

Eberhard-Karls-University, Tübingen, Germany

For several months now we have been using *syngo Expert-i* and are very happy with it. It greatly improves our workflow since our MR systems are located in different rooms. Currently we are using this innovative application for four of our

systems – MAGNETOM Avanto, Sonata, Symphony Trio, A Tim System. By using *syngo Expert-i*, we are able to select, monitor or access online the current scans running on the other system. This applies to all other MR systems and all other



separate reporting stations of the hospital. You don't have to interrupt your work on your own console. All we had to do was to install the software license. As monitors, we use those of the Radiology Information System (RIS) that are installed at every system and every PACS (Picture Archiving and Communication System) reporting station.

Our technologists are very happy with this expansion. Our most experienced technologist is easy to reach and able to give the necessary support. For me, that means additional security: despite the many daily requests I can log in quickly and easily via our hospital network and provide immediate feedback about a particular scan. Our workflow functions smoother and more efficiently with *syngo* Expert-i.

In addition, we are able to improve our communication and cooperation with referring physicians. For example, we can create our reporting documentation directly on the reporting console and transmit it to the lecture room. As a result, we no longer depend on the limited information available on the PACS (Picture Archiving and Communication System).



### Product Information

*syngo* Expert-i is a Siemens-unique solution that lets physicians interact with MR exams in progress from virtually anywhere in a hospital environment. After installation, the expert can simply log on as a remote user with an ID and password. From there they can view the entire patient setup, imaging data, and all sequences performed in real-time. *syngo* Expert-i provides full-screen displays and allows total mouse control. *syngo* Expert-i is available for all MAGNETOM systems: MAGNETOM Avanto, Espree, Trio, Symphony, C!, Concerto, Sonata, Harmony and Allegra.

All of the following software versions support Expert-i: *syngo* MR 2004A, 2004V, 2005E, 2006T, *syngo* MR B13, *syngo* MR A30.

**Have real-time access to the MRI suite from anywhere in the network.**

“The interactive access to MR examinations is absolutely trendsetting. With *syngo* Expert-i, Siemens offers us once more an innovative technology that considerably improves our processes and positions us as a forward-thinking university hospital.”

Heinz-Peter Schlemmer, M.D.,  
Eberhard-Karls-University, Tuebingen, Germany

## Case 1 Assisting advanced imaging examinations (e.g. cardiac imaging)



*Technologist at the MAGNETOM Avanto:*

*"Generally the cardiac MR exams are made with the help of the chief technologist. On that day, she had to do another difficult exam at the Sonata so I was alone. With cardiac MR I find especially the slice orientation difficult. The patient had aortic stenosis and there was the suspicion of bicuspid valve. After showing the left ventricular outflow tract, I had difficulties to see the aortic valve. I called the chief technologist, she logged on from the second scanner to ours. She performed most of the difficult part of the exam virtually herself. The outcome of the exam was perfect for the radiologist."*



*Chief technologist at the MAGNETOM Sonata:*

*"Since we have Expert-i I can log in and control the examination from one scanner to another. I can answer questions immediately without leaving my on-going scan. This technology improves our daily routine work. All technologists are excited about Expert-i."*

**"With syngo Expert-i, we are able to complete many examinations earlier than before, because physicians and technologists do not have to walk from one location to another."**

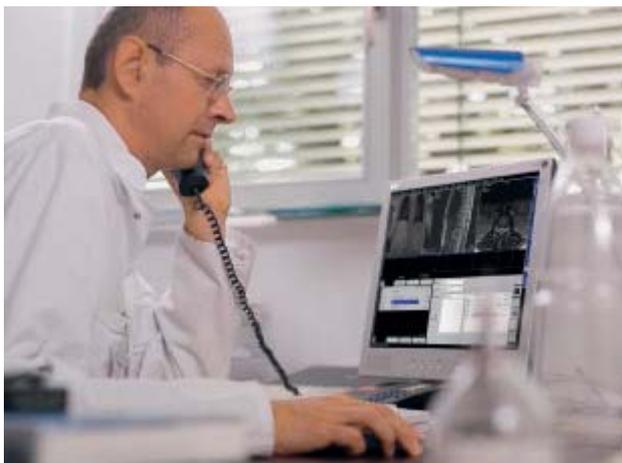
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## Case 2 Assisting change in protocol following an unsuspected or unclear finding



*Technologist at the MAGNETOM Avanto:*

*"I was doing a routine scan of the whole spine to evaluate scoliosis. After the T1- and T2-weighted scans, I felt that the spinal cord at the thoracic level looked a little bit more bulky. I did not know what to do and I was not sure whether I should inject contrast. I called the responsible radiologist, who was on call. With the help of Expert-i he looked at the images from his office. He made the diagnosis of a syrinx and advised to proceed with axial scanning with T2-weighted sequences at that level without the need of intravenous contrast. Usually in these cases we wait for the doctor to come to the scanner, which might take several minutes depending on the availability of the radiologist. Or even reschedule the patient for another time slot, when we feel that there is too much time pressure due to the waiting patients outside. Expert-i made the work simpler for all of us."*



*Doctor's office radiologist Professor Schlemmer:*

*"With the Expert-i technology I can actively access MR examinations in progress without having to interrupt my tasks elsewhere in the hospital."*



*RIS monitor: A radiologist could also answer the question immediately without leaving their working area. syngo Expert-i allows the remote access to any scanner from any RIS (Radiology Information System) console. Prompt answer can be secured.*