

Healthcare

SIEMENS HEALTHCARE SHOWCASES ITS PORTFOLIO OF IMAGE MANAGEMENT SOLUTIONS AT SIIM 2008

Siemens Provides Advanced Clinical and Information Technology That Optimizes Cardiology and Radiology Workflow, Reduces Costs and Increases Efficiency

SEATTLE, May 16, 2008 — As a leader in advanced clinical and information technology (IT) for the healthcare market, Siemens Healthcare (www.siemens.com/healthcare) will demonstrate the *syngo*[®] Suite complete range of solutions for radiology and cardiology workflow and image processing at the Society for Imaging Informatics in Medicine (SIIM) Annual Meeting in Seattle (May 15-18, Booth #317).

syngo Suite is a Web-enabled radiology information system (RIS) and picture archiving and communications system (PACS) with intelligent post-processing applications, computer-aided detection (CAD) applications, embedded speech recognition or dictation and voice functions. With *syngo* Portal Radiologist, the workflow engine pulls only relevant information from *syngo* Workflow (RIS) and *syngo* Imaging (PACS) to optimize a radiologist's tasks. *syngo* Portal Radiologist helps simplify the work of the radiologist by delivering a role-based, context-sensitive and knowledge-driven reading environment.

"Healthcare professionals need technology that helps them address the time and financial constraints in which they work, while also providing them tools to address the administrative and clinical needs of a busy imaging department," said Ajit Singh, PhD, Chief Executive Officer, Image & Knowledge Management division of Siemens Healthcare. "*syngo* Suite provides greater transparency and promotes a more efficient use of resources, while helping healthcare professionals to truly experience what we call *living workflow intelligence*."

The *syngo* Suite portfolio consists of various applications and solutions that will be demonstrated at SIIM, including:

***syngo* Imaging and *syngo* Imaging XS**

syngo Imaging (PACS) stores all data in lossless DICOM JPEG 2000 format. In order to address the large image data volumes that are produced by new imaging modalities such as multi-slice computed tomography, a progressive transmission protocol enables the workstation to access large image series almost immediately.

Certain *syngo*-enabled Siemens imaging modalities can also transfer examinations to the *syngo* Imaging server in a fast transfer mode. *syngo* Imaging can communicate in traditional DICOM with imaging modalities or workstations that have only DICOM capability, thereby providing open DICOM-based access.

syngo Imaging XS is a scalable PACS solution that is tailored to a user's current volume and that supports either a centralized or de-centralized system architecture.

As part of the *syngo* Suite, *syngo* Imaging and *syngo* Imaging XS support numerous modules for digital image reading, archiving, and image distribution within an IT framework and departmental workflow.

syngo Imaging XS comes with many IT standards, such as Windows-based hardware and software, standards-based interfaces and it includes advanced features such as status handling, multi-monitor support, advanced image-reading (2D) and a cost-efficient 3D option (MIP, MPR, SSD,VRT).

***syngo* Workflow**

syngo Workflow (RIS) supports the complete radiology workflow from order entry to image and report distribution. More efficient radiology diagnoses and interpretation are enabled via the *syngo* Portal Radiologist and these efficiencies are realized by combining the traditional information located in a healthcare information system (HIS), RIS and PACS into a single user interface and workspace.

The system features order entry and registration, supply tracking, event and patient tracking, coding, paperless communication, messaging, interactive documents, online order requisition, reaction tracking, technique capture, peer review, speech recognition and digital dictation, PACS integration, and bi-directional communication.

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***syngo* Dynamics**

syngo Dynamics (Cardiology PACS) is a multi-frame review and archiving system using evidence-based reporting to improve the efficiency of clinical procedures. The solution offers access to imaging studies at diagnostic workstations from anywhere in the hospital, helping to improve workflow efficiency for all members of the care team who need to consult cardiology imaging studies. By creating a filmless and paperless environment in echocardiography departments and cath labs, *syngo* Dynamics enables healthcare facilities to evolve to the digital hospital model.

***syngo* WebSpace**

syngo WebSpace turns office personal computers (PCs) and laptops with internet access into CT workplaces. It offers real-time access to 3D data at a doctor's office or home, and even on the road through a network connection.

Medical professionals can connect to the server in a matter of seconds and work with a patient's CT scans anytime and anywhere, improving productivity and diagnostic capabilities. One of the latest enhancements to *syngo* WebSpace features Advanced Vessel Analysis, which includes a refined vessel segmentation algorithm, centerline editing capability, guided workflow (less steps), automated measurement tools (true/false lumen, stent planning) and improved reporting tools.

***syngo* TrueD**

syngo TrueD is a multi-modality application for oncology, supporting PET·CT, SPECT·CT, CT and MR image registration over multiple time points. The application enables physicians to efficiently compare patient scans from different time points (e.g. pre- and post-therapy) and provides advanced image analysis and comparison, including a suite of change detection tools, to help make more informed diagnosis, therapy and follow-up decisions.

The application supports registration, visualization, quantification and reporting for up to three time-points. An advanced suite of registration options comprised of both rigid and non-rigid methods with built-in matrix navigational tools is available and

includes: Deformable (non-rigid); Automatic (rigid); Visual alignment (rigid); Landmark matching (rigid); and Paging (rigid).

NextGen EPM/EMR

Siemens Medical Solutions USA, Inc., and NextGen Healthcare Information Systems, a leading provider of ambulatory Electronic Medical Records (EMR) and Enterprise Practice Management (EPM) software, continued to demonstrate their a worldwide strategic alliance to meet the unique healthcare IT needs of the physician practice market. NextGen and Siemens continue to provide healthcare organizations and physician practices with access to longitudinal health records, streamlined processes across acute and ambulatory settings, and opportunities for enhanced patient safety and physician satisfaction. By combining the strengths of the NextGen EPM software and *syngo* Workflow, Siemens integrates the workflow processes of a diagnostic imaging center in order to streamline scheduling and results reporting and to optimize revenue and cost management.

About Siemens Healthcare

Siemens Healthcare is one of the world's largest suppliers to the healthcare industry. The company is a renowned medical solutions provider with core competence and innovative strength in diagnostic and therapeutic technologies as well as in knowledge engineering, including information technology and system integration. With its laboratory diagnostics acquisitions, Siemens Healthcare is the first fully integrated diagnostics company, bringing together imaging and lab diagnostics, therapy, and healthcare information technology solutions, supplemented by consulting and support services. Siemens Healthcare delivers solutions across the entire continuum of care – from prevention and early detection, to diagnosis, therapy and care. The company employs more than 49,000 people worldwide and operates in 130 countries. In the fiscal year 2007 (Sept. 30), Siemens Healthcare reported sales of €9.85 billion, orders of €10.27 billion, and group profit of €1.32 billion. Further information can be found by visiting <http://www.siemens.com/healthcare>

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