



One Seamless Workflow Environment

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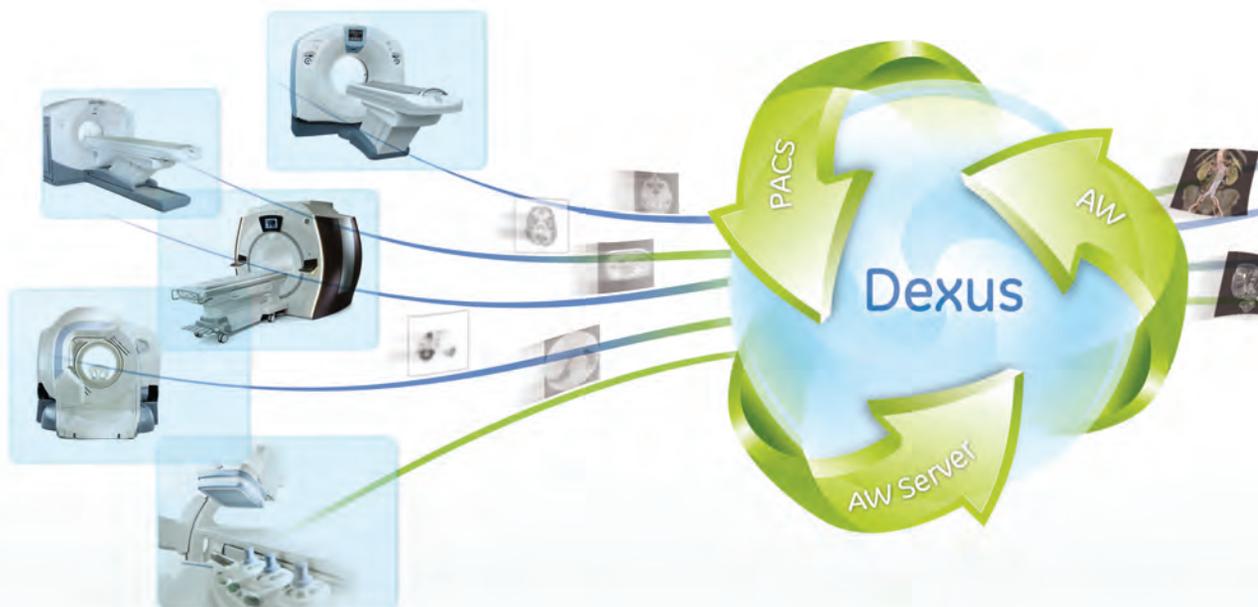
– Dr. Richard A. Kane

By Laurent Stefani, Global Marketing Manager, Dexus, and Paul Edwards, EMEA Product Manager, Dexus

One solution that streamlines image postprocessing. You asked for it, now we've delivered it. GE Healthcare introduces Dexus,* a workflow environment that optimizes reading experience and productivity from image acquisition through results reporting. Built on the trusted GE AW and Centricity* platforms, Dexus links imaging devices, clinical applications, and IT for access to advanced visualization tools across modalities and patient care settings—whether the emergency room, clinical area, or physician office.

As integral components of the Dexus environment, AW Workstation and AW Server provide the portal to a broad portfolio of robust, easy-to-use clinical applications. By streamlining post-processing and synergizing imaging techniques, Dexus answers productivity needs across CT, MRI, PET, SPECT, and Interventional modalities. The AW Server converts virtually any PC, laptop, or PACS desktop to a 2D, 3D, and 4D post-processing workstation. This capability lets clinicians remotely review and share images in real time, enabling close collaboration with internal clinicians, stronger referring physician partnerships, more confident diagnoses, and better patient care.

“For groups like ours with radiology sub-specialists available for consult, it's very useful that they can give their advice no matter where they are located,” says Fred Cohen, MD, Clinique Médipôle Saint-Roch (Cabestany, France). “They could be anywhere—they just use the software tools and provide feedback.”



Dexus environment leverages and maximizes technology investments by seamlessly integrating with existing IT infrastructure. For example, integration with an existing RIS/PACS enables one-click access to the rich clinical AW applications and the ability to leverage worklists, hanging protocols, and reporting systems from one PACS desktop. Integration to GE Centricity solutions provides instant access to online post-processing and comparison of current and prior exams, eliminating storage islands.

“Using this new version of the AW Server is very transparent to workflow,” Dr. Cohen adds. “With one click I can go directly to the server and begin reading cases without entering additional passwords or other information.”

As part of the Dexus environment, the AW Workstation and AW Server include a common user interface, optimized protocols, review steps and tools for each clinical application to guide simple image review and analysis.

With automated case preparation, studies are ready for interpretation as soon as they are opened—the processing is completed in the background. This includes bone removal or coronary tree segmentation, tracking, and labeling.

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Clinical solutions

As part of the Dexus environment, multimodality applications combine with customized workflow for radiology, cardiology, vascular, oncology, and neurology—providing *one* solution for virtually any care area.

For vascular studies, the Dexus environment provides a premium 2D/3D clinical analysis tool that enables fast, routine review. It simplifies complex studies such as plaque analysis, stenosis quantification, aneurysm measurement, and bone segmentation. What's more, analysis tools are available across the enterprise so surgeons can fully interact with 3D images to precisely visualize cardiovascular anatomy.

The Dexus environment also brings a breadth of new enhanced applications in cardiology (see CardIQ Xpress Reveal article on page 6), neurology (see CT perfusion article on page 50), and oncology. By bringing these new applications together within the Dexus environment, AW and Centricity solutions come together to facilitate follow-up by enabling instant access to priors and streamlining comparisons over time.

The oncology application, OncoQuant, introduces a new focus on cross-modality oncology. It builds upon the Dexus foundation and synergizes available information to help clinicians diagnose, plan and guide interventions, and follow-up treatment.

"We can better collaborate with oncologists for monitoring patient progress throughout the treatment cycle," explains Professor Yves Gandon, MD, Chief Radiologist of Medical and Functional Imaging, Hôpital Pontchaillou, CHU Rennes (Rennes, France).

The software monitors tumor progression and response to treatment. With automated and interactive access to quantitative information, clinicians can visualize, track, and manage multiple lesions and patient exams over time.

"The solution can also have a more positive effect on the quality of measurements," Professor Gandon says. He believes OncoQuant helps with measuring and reporting tumor response for the Response Evaluation Criteria in Solid Tumors (RECIST) published rules.

Streamlined reading, simpler research, and streamlined workflow help enable clinicians to deliver a more immediate diagnosis. Dexus brings the power of one solution to medical imaging workflow so clinicians can access the information they need—when and where they need it. ■

