



# Advanced viewing and workflow

## Philips IntelliSpace PACS Radiology 4.4 diagnostic reading solution

Philips IntelliSpace PACS 4.4 provides access to relevant, multi-modality information to support clinical decision making anywhere,<sup>1</sup> anytime. It simplifies PACS via a unique service delivery model with built-in flexibility, scalability and interoperability. Ultimately, it facilitates collaboration throughout the enterprise to enhance clinician workflow, patient care, and financial outcomes.

Philips IntelliSpace PACS Radiology is a diagnostic reading application designed to speed study review and enhance clinical efficiency. By allowing radiologists to keep pace with the explosive growth in the number and complexity of radiology studies,

it enhances diagnostic confidence and helps improve departmental productivity.

The solution features on-demand delivery of diagnostic-quality images with relevant viewing tools and clinical applications for the care team.

### Key advantages

Customizable, intuitive user interface and advanced workflow tools	Reduces steps required to view and interpret studies; provides a single view of images and information across the enterprise
Multi-modality 2D/3D reading environment	Accelerates routing and reading of 3D studies, enhances result sharing, and highlights pathology with an extensive set of segmentation tools
Open platform	Interfaces with enterprise systems (such as EMRs), third-party applications, and custom solutions

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sense and simplicity

# Streamlined to save time

With a customizable, intuitive user interface and advanced workflow tools that reduce the steps required to view and interpret studies, Philips IntelliSpace PACS Radiology supports workflow efficiency. The solution optimizes the display layout, organizes patient history timeline, automates image hanging protocols, and provides customizable functionality and keyboard shortcuts to help clinicians focus on the images rather than the system.

## Intuitive graphical user interface

An intuitive GUI provides quick access to the patient's radiological history, including diagnostic reports, exam notes, clinical history, and images. The system's overall ease of use promotes rapid user adoption while reducing training time required.

- Real-time overview of patient's clinical history timeline and links to relevant studies
- Optimized use of screen space to display images

## Customizable tools

Users can easily configure the application environment based on personal preferences, and hanging of new and prior studies are completed rapidly based on clinical protocol.

- Advanced worklist filters, folders, keyboard shortcuts
- Easy-to-select hangings powered by advanced visualization tools for 2D, 3D, and 4D reviewing<sup>2</sup>
- Collaborative workflow support tooling, bookmarking, and movie generation

## Teaching and presentations

IntelliSpace PACS Radiology facilitates communication among radiologists, technologists, and referring physicians.

- Creation of persistent presentation states and key images
- Teaching files to "drag and drop" into folders and automatic anonymous presentations of patient-identifying data
- Organizes multi-page presentations for review rounds, team consultations, or teaching



## Workflow features

Shared work lists of exams for presentations, OR, or ICU scheduling result in streamlined workflow.

- Private and public folders, clinicians' work lists
- Auditing, reporting, and statistics aid in regulatory compliance
- Clinical information dialog to access relevant clinical exam and patient data
- Role-based exam notes

## Mammography reading

Designed to flow mammography readings, IntelliSpace PACS Radiology optimizes viewing conditions when inverting or windowing and reduces the need to zoom.

- Dedicated hanging protocols, mammography keypad, CAD display, pixel-to-pixel, true size and step-zoom tools
- Automatic glandular tissue recognition
- Automatic breast fit to window
- Automatic background suppression
- Double-blind reading support
- Provides breast adjustment
- Excellent 2D and 3D Ultrasound and MR viewing support

# Speed review and consultation<sup>2</sup>

IntelliSpace PACS Radiology unleashes the potential of modern, advanced cross-sectional modalities and 2D and 3D ultrasound throughout the enterprise. Advanced hangings with advanced visualization 2D/3D/4D technology<sup>2</sup> are combined with hanging protocol management to empower clinical users. Explore anatomy, pathology, and even physiology with speed, predictability, and confidence. Hangings feature multi-volume linked displays, 3D navigators, multi-dynamic splitting, and 4D movie visualization. IntelliSpace PACS Radiology

supports collaborative workflow through easy-to-use presentation states, bookmarking, and movie generation. This helps improve the efficiency of communication among radiologists and clinicians. iSyntax technology brings full advanced rendering performance to clinicians throughout the entire enterprise without extra complexity. Based on mathematical representations of images called wavelets, iSyntax allows just-in-time delivery of image data for rapid access. Diagnostic-quality images are delivered over limited-bandwidth networks.



The 3D hanging protocol utilized on this MR study automatically splits the dynamics, creates the MIP and 3DVR for each dynamic, and arranges the hanging order.

## Advances in interpretation and communication

### Smart display

*Each image type displayed with intelligence*

- Universal X-ray exams automatically stacked
- Ultrasound exams displayed in page mode with auto-play loops
- MR multi-dimensional series automatically split
- Automatic linking applied wherever useful

### Advanced visualization powered hangings

*Presents intrinsic diagnostic information from cross-sectional modalities*

- Hangings can include multiple MPRs or even MIP/3D and 4D
- Easy-to-build AV-powered hangings with “drag, drop and save” graphical user interface
- Modify hangings built by peers to meet specific needs

### Smart exception handling

*Puts clinical user in control*

- Drag and drop extra images into hanging
- Save as new hanging if useful

### Smart ad hoc compare

*Provides excellent support of ad hoc image or exam comparisons*

- Drag and drop entire exams to the screen for ad hoc comparison
- Automatic exam compare mode arranges available screen space

### Easily share and communicate

*Enhance service to referring physicians*

- Save results in a preset free-style movie or secondary capture bookmark to show referring physicians for greater insight

# Advanced clinical and workflow tools

IntelliSpace PACS Radiology leverages a rich portfolio of clinical applications for various modalities, including Volume Vision R8.2. In addition, IntelliSpace PACS Workflow Layer 2.0 is an advanced workflow solution designed to enhance productivity and interdepartmental collaboration.

## Clinical applications

Cardiology, neurology, oncology, musculoskeletal, gastroenterology, and digestive diseases are among clinical applications supported. Distributed from the server repository, the clinical applications are available on a single IntelliSpace PACS 4.4 workstation, reducing the need for multiple multi-vendor workstations. They can be installed selectively on the clients, supporting workflow needs and site-specific configuration requirements.

Please consult your Philips sales representative for a full portfolio review, or log on to [www.philips.com/IntelliSpace/ClinAppsPACS](http://www.philips.com/IntelliSpace/ClinAppsPACS) to view and download related information.

## IntelliSpace PACS Workflow Layer 2.0

To streamline radiology workflow, the Communication Management functionality in IntelliSpace PACS Workflow Layer (chat, mail, and broadcast messaging) provides contextually integrated communication between IntelliSpace PACS users.

Assignment and Resident Workflow Management allow specific studies to be assigned to a radiologist, and Peer Review Management facilitates compliance with the ACR-mandated peer review process.

Additional functionalities include AED-RAD Discrepancy Management, designed to facilitate communication and workflow between radiology and emergency department physicians, and Critical Findings Management, allowing timely communication of findings to physicians.

<sup>1</sup> It is the user's responsibility to ensure that Philips network performance recommendations for IntelliSpace PACS 4.4 are met.

<sup>2</sup> IntelliSpace Volume Vision is the 2D/3D/4D enhanced viewing application part of the IntelliSpace Clinical Applications R8.2, bundled with the comprehensive IntelliSpace PACS solution. IntelliSpace Volume Vision R8.2 is shipped only in combination with IntelliSpace PACS 4.4 and is not available for the iSite PACS 3.6 or 4.1 installed base.

Please visit [www.philips.com/IntelliSpacePACS](http://www.philips.com/IntelliSpacePACS)



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