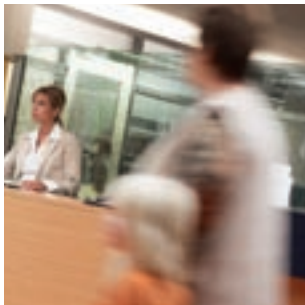


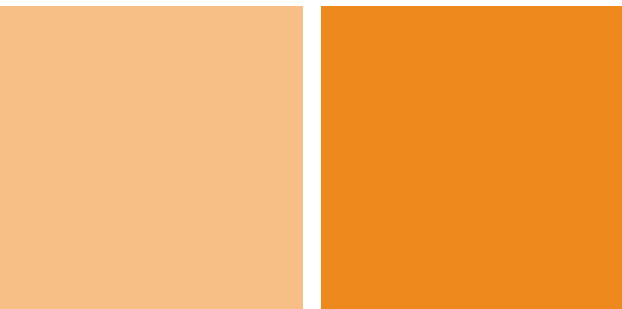
# IMPAX 6

Because all PACS are not created equal



# Build your enterprise ON A SOLID FOUNDATION

Around the world, healthcare facilities are using digital image and information management to talk about patientcare and to lower healthcare delivery costs. To reap these benefits, organizations need to choose the right PACS – one that will meet current needs, from simple to complex, and create a firm foundation for integration and future growth.



## Choose IMPAX 6 from Agfa HealthCare

A complete solution,  
for today and tomorrow

When healthcare organizations choose IMPAX 6, they decide for the next generation of image and data management, all in an integrated RIS/PACS/Reporting (Radiology Information System/Picture Archiving and Communications System) solution. IMPAX 6 supports and connects all of the image and information systems within a hospital or hospital group, allowing data to flow seamlessly and securely through departments, other clinical areas, and even offsite.

With the choice of IMPAX 6, healthcare organizations are also providing a solution that's tailored to the specific workflow needs of individual users. With its unique persona based design, IMPAX 6 offers an optimized set of tools, navigation and visual design for six key user types, or personas: radiologists, technologists, hospital administrators, PACS administrators, clinicians and IT managers. Based on extensive research into the goals, needs and daily interactions and workflow of each of the six user types, the persona-based design of IMPAX 6 can help maximize IT investment while comprehensively supporting individual users.

IMPAX 6 is a central component of the fully integrated IMPAX Enterprise solution, which is designed to expand image and information management strategies beyond Radiology. In addition to IMPAX 6, IMPAX Enterprise features IMPAX RIS, IMPAX Reporting, IMPAX Mobile, IMPAX

SMMS (Solutions Monitoring and Management Services) and Audit Services. And because they're all part of an integrated package, hospital management and users can be confident that they'll work together flawlessly.

Part of Agfa HealthCare's success in PACS comes from the company's long-time focus on integration. Agfa HealthCare is committed to integration and open standards, as evidenced by the size of its PACS connectivity library – the largest of all PACS vendors today. The vendor-neutral architectures of Agfa HealthCare's Cardiology solution and IMPAX enable these solutions to connect to modalities from most vendors. Agfa HealthCare's solutions can receive image data from the full range of modalities and sources, including angiography, echocardiography, nuclear medicine, cardiac CT and MR systems, as well as hemodynamic systems from leading manufacturers.

Whether an organization is just beginning the move to a digital environment or extending and integrating its existing digital capabilities, IMPAX 6 not only solves the challenges of today, it leaves forward-thinking healthcare organizations ready to meet future challenges as their enterprise grows.

### THE LEADER IN PACS INTEGRATION

It's important to choose a PACS vendor with a solid track record. Agfa HealthCare is a trusted name in the healthcare world – more than 50% of hospitals worldwide use its products. When it comes to PACS, Agfa HealthCare has been leading its evolution since 1991, so it's hardly surprising that Agfa HealthCare is the number one choice for PACS in Europe, or that it has installed more than 1,200 systems worldwide.

# IMPAX 6

## Solving today's healthcare challenges

IMPAX 6 helps unify workflow and information across your organization while solving some of the key healthcare challenges you face, including:

- » Managing the exploding volume of data
- » Managing healthcare delivery costs
- » Creating more efficient workflow
- » Ensuring the security of patient data
- » Improving systems uptime
- » Developing a long-term IT strategy
- » Preserving valuable IT investments
- » Maintaining a flexible business model

### REDUCING HEALTHCARE DELIVERY COSTS

IMPAX 6 turns information into knowledge, enabling medical experts, hospital management and healthcare organizations to achieve higher levels of patient care and greater financial and operational efficiency.

- » Featuring smart client architecture, IMPAX 6 is centrally deployed and managed, reducing the time and cost associated with application deployment and maintenance
- » Integrated RIS/PACS/Reporting on a single desktop decreases hardware and maintenance costs
- » The single sign-on, macro templates and context sharing of IMPAX Reporting help to decrease report turnaround time, eliminate transcription costs and improve the delivery of patient care
- » IMPAX 6 features commercial licensing models so healthcare organizations can choose the business model that best meets their needs, achieving true value for investment

### CREATING MORE EFFICIENT DEPARTMENTAL AND ENTERPRISE WORKFLOW

IMPAX 6 optimizes clinical and IT efficiencies by providing departments outside of Radiology with image and information access and the relevant tools needed to provide enterprise-wide image and report access.

IMPAX 6 provides intuitive wizards that efficiently organize and define a number of automated tasks to ensure that users' 'to do' lists remain current.

- » A user interface based on persona-based design fits the application to the user's specific workflow, allowing them to work more efficiently and minimize transition time
- » Automated workflow tools and the intuitive user interface reduce the number of clicks needed to perform tasks
- » The fully-integrated IMPAX RIS provides extensive information access on a single desktop and the ability to review current images simultaneously
- » Agfa Solutions Monitoring and Management Services (SMMS) analyze workflows and configure systems to maximize output and reduce costs

### ENSURING THE SECURITY OF PATIENT DATA

Featuring new authentication models (LDAP – Lightweight Directory Access Protocol), ultra-high security and auditing capabilities, IMPAX 6 has the highest security standards in the industry.

IMPAX Audit Manager tracks all the components of the Agfa HealthCare solution to keep administrators up-to-date on activities.

## IMPAX 6

The core of an effective  
IT strategy for your  
healthcare enterprise

### IMPROVING SYSTEMS UPTIME

Constant real-time monitoring of system status ensures the awareness of issues before they become serious problems, improving uptime and efficiencies. Agfa HealthCare's Solutions Monitoring and Management Services (SMMS) provides system-monitoring solutions through 24x7 proactive monitoring of system trends, events and thresholds to maximize uptime and mission critical systems operations. The Service-Oriented Architecture (SOA) of IMPAX 6 makes it easy to upgrade the components of the IT infrastructure with less disruption to services.

### DEVELOPING A LONG-TERM IT STRATEGY

Whether you're a small imaging center or a large academic enterprise, IMPAX 6 can scale to meet all current and future demands, and will provide connectivity across Radiology, Women's Care, Orthopaedics and Cardiology.

IMPAX 6 is standards-based and connects with existing, legacy and future IT implementations, and provides a platform for efficient ongoing product expansion.

- » By combining information management (RIS) with image management (PACS), IMPAX 6 provides a smooth transition for investing in a RIS/PACS from Agfa HealthCare at any point in the IT roadmap.

### PRESERVING VALUABLE IT INVESTMENTS

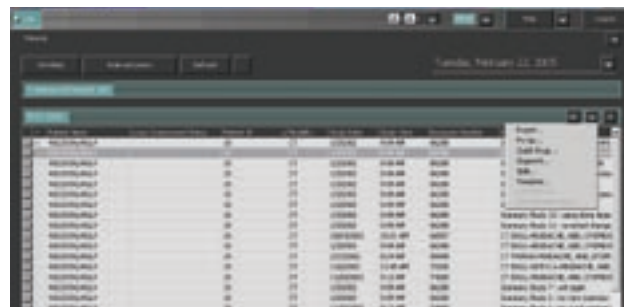
Agfa HealthCare's connectivity and integration experience can be leveraged to connect disparate information systems.

- » Agfa HealthCare's solutions easily integrate with current IT infrastructures creating a seamless flow of information
- » Web-deployable, IMPAX 6 enables secure, remote access to patient information from virtually any PC in the healthcare enterprise
- » Through workflow analysis, the enterprise system is configured to maximize output and reduce costs

### MAINTAINING A FLEXIBLE BUSINESS MODEL

At the core of the IMPAX 6 solution is a unified client that adjusts to working environments and provides PACS/RIS/HIS and Reporting information and workflow via a singular view.

- » The service-oriented architecture of IMPAX 6 provides a platform upon which generations of products can be built, integrated or accessed, with less effort
- » The infrastructure accommodates departmental needs including Radiology, Orthopaedics and Women's Care
- » Persona-based design facilitates usability and will enable users to work the way they're used to working



# An all-in-one solution that addresses all your users' needs

IMPAX 6 is a comprehensive and fully integrated digital imaging and information solution for your healthcare enterprise. IMPAX unifies a healthcare facility, while offering components that support specific staff workflows, without compromising their effectiveness. The result is a highly integrated enterprise infrastructure that will allow each professional within your healthcare enterprise to work the way he wishes, while sharing information and maintaining a seamless workflow between individual departments.

How do you unify a dynamic environment of healthcare professionals? Agfa HealthCare's user studies indicate that technology must match the exact needs of the people using it to be effective. That's why IMPAX 6 features six different persona-based user interfaces. Each unique persona represents the clinical needs of an individual using IMPAX 6. The system recognizes the persona type during log-on and displays the appropriate product features, navigation, and information for that person's unique workflow. Users can further customize their interface based upon their own preferences. For the six key user types – radiologists, technologists, hospital administrators, PACS administrators, clinicians and IT managers – IMPAX 6's persona-based approach increases acceptance, reduces transition time, and provides the benefits of an enterprise system without sacrificing individual needs.

## IMPAX 6

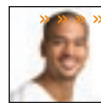
balances the needs of your individual users with the benefits of a fully integrated healthcare enterprise.

### IMPAX 6

- » supports clinical needs for each user profile
- » provides productivity and infrastructure management tools for your IT department
- » streamlines healthcare management
- » forms the foundation for your hospital's core imaging and IT strategy



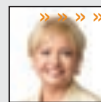
» » » » **Radiologists** – single log-on access to patient images, past studies, RIS information, procedure reports and more



» » » » **Technologists** – workflow that's integrated into the patient care process and easy access to information and images



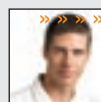
» » » » **Hospital administrators** – open, scalable components and instant and secure access to patient information, across the enterprise



» » » » **PACS administrators** – centralized, streamlined system management combined with greater user satisfaction



» » » » **Clinicians** – easy access to patient reports and data from hospital or office plus advanced visualization tools



» » » » **IT managers** – monitoring and reporting tools that maximize uptime and ensure adherence to security and privacy protocols

## » FOR RADIOLOGISTS

With a single log-on, radiologists can see patient images, past studies, key RIS information, and procedure reports – all from a single desktop. And, with speech recognition and digital dictation tools only a single mouse click away, exam and report review are automated into radiologists' workflows as they review clinically-relevant patient information.

IMPAX 6 allows radiologists to:

- High performance PACS with fast access and display, even for extremely large studies
- Optimize workflow and achieve a higher throughput
- Have fully integrated RIS/PACS/Reporting at the desktop
- Reduce the number of manual steps through automated workflow tools
- Gain fast, secure access to images and information



”

The system allows more than one technologist to use it at once, so you can flip from patient study to patient study without having to close a study, and you can have approximately 10 studies open at one stage. That increases the workflow, so technologists aren't waiting in a queue to review images, they can really come and go as they want. ”



”

The reasons we preferred Agfa HealthCare were fourfold: speed, product features, user-friendliness and excellent value for money. ”

## » FOR TECHNOLOGISTS

With IMPAX 6, technologists get the information they need and their workflow is integrated into the patient care process. Technologists can work in any exam room, and view key information so they can apply their specialized knowledge during patient studies to offer the best outcomes.

IMPAX 6 enables technologists to:

- Stay informed and up-to-date on patient information
- Work quickly and efficiently without being tied to static workstations
- Access the information they need, in the exam rooms where they need it most.
- Provide the patient and the radiologist with the quickest, most accurate images

## » FOR HOSPITAL ADMINISTRATORS

Flexible licensing options and modular technologies allow hospital administrators to integrate IMPAX at the right pace for their facilities. Because the components are open and scalable, hospitals can preserve existing IT investments and be ready for future additions. Hospital staff gain instant and secure access to patient information, reducing opportunities for medical error, increasing efficiencies, and allowing the right information to flow seamlessly to the right people.

Hospital administrators can use IMPAX 6 to:

- Lower the cost of healthcare delivery and system configuration/maintenance
- Improve the delivery of patient care
- Leverage legacy IT investments
- Ensure that hospitals remain competitive



We feel that Agfa HealthCare, a major and experienced provider of medical imaging and IT solutions, will support us in our mission in a context where our medical departments, including Radiology, depend ever more on reliable IT support.



Now we are much more efficient in getting reports out to physicians, which has had a positive effect on our business.



## » FOR PACS ADMINISTRATORS

The intuitive interfaces and persona-based modules in IMPAX 6 help PACS administrators reduce training time and increase usage among users, so they get more from the solution, sooner. IMPAX 6 can also be centrally managed, which makes it easier for PACS administrators and IT departments to deploy, support, configure permissions and roles, and manage users.

With IMPAX 6, PACS administrators are able to:

- Increase user acceptance of new technology, so facilities can boost the ROI of new technology investment
- Improve user satisfaction and maximize efficient use
- Minimize time spent managing users, systems and information
- Ensure that users always have the tools they need to do their job

## » FOR CLINICIANS

IMPAX 6 supports clinicians' needs for patient reports and data, whether they're at the healthcare facility, or at an offsite office. They can schedule patient exams and, once complete, can read reports and view results and images right from their offices.

Clinicians can use IMPAX 6 to:

- Access information remotely
- Have quick report turnaround times
- Deliver faster diagnosis and treatment
- Provide patients with a faster, more accurate level of care



“  
Consultations can now occur in a much quicker fashion since the caregivers no longer need to be in the same location.”



“  
Once staff started to use it, they saw its advantages and its speed, and how it eliminated steps that were taken in the old system. Now, everyone's using the new system, and they really like it.”

## » FOR IT MANAGERS

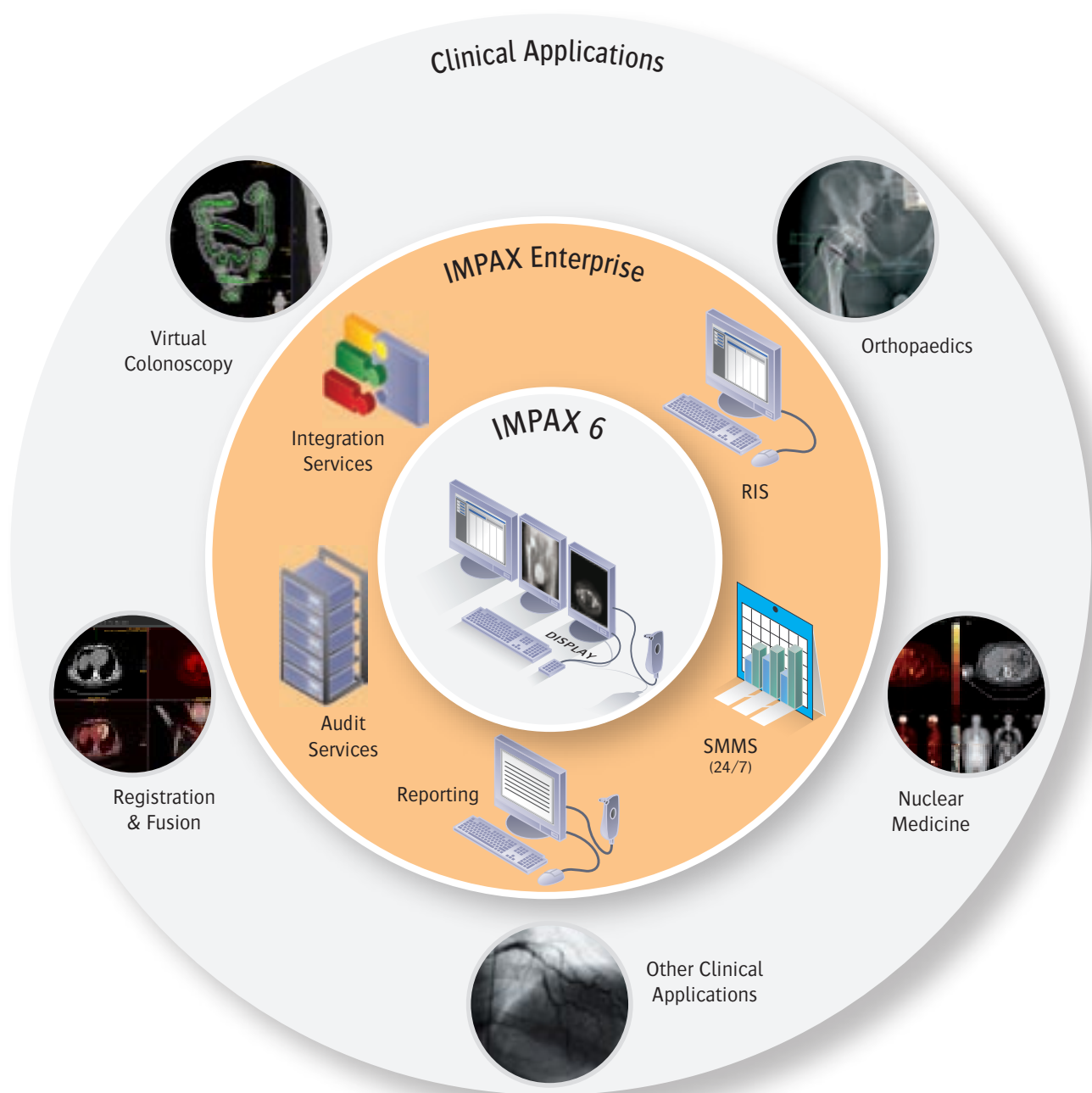
IMPAX 6 provides IT managers with 24x7 solution monitoring and reporting to ensure high availability and maximum IT stability, quickly identifying potential issues and automatically resolving them (when possible). Automatic management reports assist system administrators with daily activities. The integration of IMPAX 6 into existing enterprise infrastructure (through integration with enterprise LDAP) helps ensure that security and privacy protocols are maintained.

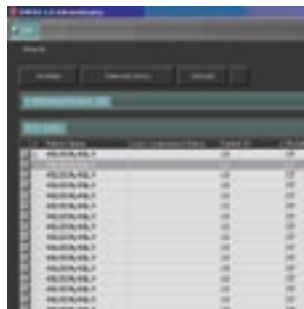
IT managers can use IMPAX 6 to:

- Expand their facility's IT strategy
- Increase uptime and prevent problems
- Meet regulatory requirements and ensure patient privacy
- Ease deployment, maintenance and support
- Provide a secure, reliable and cost effective solution

# Technology that evolves with you

Imagine a total solution that gives you integration, flexibility and security – plus fast deployment and maximum uptime. Thanks to the technical advances featured in IMPAX 6, you can achieve these benefits throughout your enterprise.





## IMPAX ENTERPRISE, A COMBINATION OF VALUES

First, there was IMPAX. Since its introduction, Agfa HealthCare’s pioneering PACS application has paved the way to new efficiencies in workflow and patient care for hospitals around the world. As its prominence grew, IMPAX evolved. Now, Agfa HealthCare’s award-winning PACS emerges as IMPAX Enterprise, a total solution featuring IMPAX 6 in combination with powerful RIS, Reporting, Audit Services, Integration Services and SMMS applications. Thanks to its new technical advances, you can achieve the integration, flexibility and security benefits of IMPAX Enterprise throughout your facility.

### IMPAX ENTERPRISE IS COMPRISED OF IMPAX 6 AND:

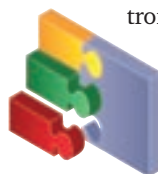
- » **Radiology Information System (RIS):** Electronically manage your radiology operations from end to end for greater productivity, from patient registration through worklist generation to medical reporting and transcription.



- » **Reporting:** The reporting component of IMPAX 6 offers radiologists a complete workflow interpretation and reporting solution, with speech recognition, macro templates, and context sharing to decrease report turnaround time, eliminate transcription costs, and improve the level of patient care.



- » **Integration Services:** Unify the presentation of electronic health records, link patient imaging studies across hospital facilities, and automate multi-vendor workflow processes by connecting all your information systems and modalities.



- » **IMPAX SMMS (Solutions Monitoring and Management Services):** 24x7 real-time monitoring and system services let you solve potential issues before they become problems, maximizing your system uptime. Plus, automatic reports and asset management tools help system administrators handle daily IT activities with ease.



- » **Audit Services:** Make sure your facility complies with local regulations and meets patient privacy and security requirements with our highly-sophisticated, standards-based Audit Services and Audit Manager.



## REAL BENEFITS OF IMPAX ENTERPRISE

- » Comprehensive, next-generation solution for managing patient data
- » Web-deployable image and information management solution
- » Delivers increased efficiency and productivity to hospitals of all sizes
- » Streamlines enterprise workflow

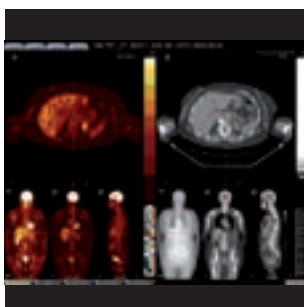
# Meeting clinical and specialized needs with a single PACS solution

In the beginning, IMPAX was primarily deployed in Radiology departments, and most images were X-rays. Now, Agfa HealthCare has extended IMPAX with new clinical applications and 3D tools that increase the workflow-supported productivity of clinicians. Easy, single-workstation access to patient information and images, online clinical reference material, advanced visualization tools and integration with RIS, PACS and Reporting make for a truly powerful solution. By combining all these applications into a single PACS system, you can capture enterprise-wide efficiencies and maximize your IT investment, while providing physicians and clinicians with some of the most advanced diagnostic tools they'll find on their desktops today.



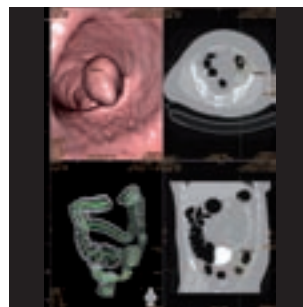
**IMPAX for Orthopaedics** puts all the right information for your surgeons all in one place – when and where they want it. More than just putting a study on-screen, IMPAX for Orthopaedics changes how efficiently the subsequent steps

in patient care, from selecting implants to post-operative review, can be completed, making the tasks that complicate orthopaedic practice – retrieving past studies, managing prostheses template libraries, conferring with other clinicians for patient data – suddenly effortless.



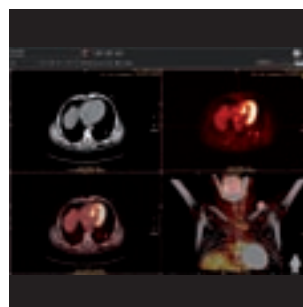
With a whole range of specialized NM tools and applications, **IMPAX Nuclear Medicine** provides the data your reading physicians need. The solution includes integrated MPR/MIP functions for volumetric data, calculation of SUV

values (max, min and avg.) and region of interest (ROI) tools. IMPAX Nuclear Medicine displays clinically-relevant PET, CT, MR and SPECT DICOM image data.



**IMPAX Virtual Colonoscopy** is non-invasive, requiring no colonoscope, making the procedure much more pleasant for patients. It also takes less time: while typical conventional colonoscopy takes between 30 and 60 minutes, a typical

virtual colonoscopy takes only 5 – 30 minutes, representing a 100% increase in patient throughput – saving your facility time, and money. This single diagnostic workstation offers best-in-class image quality visualization endoscopic views along with workflow optimization and increased productivity.



Ideally suited for image guided surgery, image guided therapy, non-invasive diagnosis and treatment planning, **IMPAX Registration & Fusion** allows for multi-modality fusion for anatomical studies (CT/MR) or a combination of anatomical and physiological studies (tracers in

PET images).

# Extending the efficiency benefits of PACS to Cardiology

Two departments. One enterprise. Cardiology and radiology departments traditionally have managed separate PACS, but enterprise-wide image and information management is more efficient. An enterprise PACS infrastructure is not only easier to manage and more cost effective – it is the foundation of comprehensive image and information management in the electronic patient record (EPR).

Agfa HealthCare simplifies image management across the enterprise with a complete system for cardiovascular images and information. With Agfa HealthCare's Integrated Cardiovascular Solution, hospitals that have – or will have – IMPAX 6 for Radiology can reap the benefits of integrated image management for both cardiology and radiology.

With the Integrated Cardiovascular Solution from Agfa HealthCare, healthcare facilities with IMPAX for Radiology are able to manage cardiology and radiology images from a single structured data repository, creating unprecedented economies of scale and simplifying storage administration for multimodality images. With Agfa HealthCare's solution, the cardiology department is in full control of its own data sharing, yet the enterprise-wide repository eliminates independent information silos and fosters a common back-end network and archive infrastructure.

With an Integrated Cardiovascular Solution from Agfa HealthCare, you can:

- **Consolidate information** from multiple cardiology subspecialties and modalities into a single repository
- **Enhance communication** across the enterprise by reducing redundant data entry, speeding report completion time, reducing transcription errors, integrating the scheduling function, as well as improving the reimbursement process
- **Create structured digital reports** with reporting modules for adult catheterization and echocardiology, pediatric echocardiology, congenital heart disease, nuclear medicine, and non-invasive vascular disease management
- **Use sophisticated data mining and extraction tools** to support information requirements of national data registries
- **Connect multiple modalities**, including angiography, cardiac ultrasound, and intravascular ultrasound, as well as non-image data such as waveforms, measurements, and other text-based information
- **View images** on review stations or secure Internet-connected PCs
- **Leverage existing IT infrastructure**, which saves time, reduces cost, and simplifies implementation and maintenance



# All relevant data at hand: ready for reporting



Agfa HealthCare's integrated reporting solution makes radiologists' work easier. With IMPAX 6, radiologists no longer have to switch to a different application for reporting – they can now dictate their findings with all relevant data and images right in front of them.

IMPAX 6 offers easy, synchronized access to information and functionality from both Agfa HealthCare's RIS and PACS.

- » From a single workstation, radiologists can operate different applications sharing the same context.
- » Only one log-on is required for RIS, Speech and PACS applications.
- » Patient and study data need to be selected only once.
- » With bi-directional RIS/PACS integration, data only needs to be entered once to be shared throughout the system.
- » All relevant information is automatically available, contributing to an optimally documented diagnostic process. This not only saves precious time, it also reduces errors.

## THE POWER OF SPEECH TECHNOLOGY

Agfa HealthCare's RIS/PACS reporting solution integrates with speech processing applications to enable digital dictation and speech recognition. Powerful and fully integrated dictation facilities ensure fast and relevant transfer of the dictations to the transcriptionist without risking loss of tapes. Integrated speech recognition allows radiologists to smoothly shift from on-line to off-line speech recognition on a need-to basis per report and to opt for self-correction or deferred correction. Using on-line speech recognition, they can dictate and sign reports while the images are still displayed and the case is still fresh in their mind. This reduces report turnaround time dramatically.

## EFFICIENT HANDLING OF PENDING REPORTS

This integrated reporting solution also provides easy and convenient access to reports where verification and validation are pending. A sign-off queue is presented for reports dictated by the radiologists themselves or for review of reports on behalf of colleagues. Radiologists can choose to use synchronized display of corresponding images and series. This enables report review and approval in the full context of a patient's history.

# A solid investment for today and for tomorrow

As technology makes more things possible, the healthcare environment continues to shift. Finding solutions that can serve your enterprise through ongoing change is no easy task.

With IMPAX 6, you're choosing a solution that can handle your image and information needs now while establishing an exceptionally solid foundation to build on in the years to come.

You're also choosing the leading PACS solution worldwide. IMPAX 6 incorporates 15 years of Agfa HealthCare's expertise in PACS software development, providing rich tools, full diagnostic viewing capabilities, and easy access to information from multiple sources.

It's the perfect system to introduce PACS into your facility. It's equally appropriate for highly-advanced digital facilities, integrating with your existing IT systems while creating opportunities for future growth. Either way, you get the power and flexibility that you need in one complete package.

Agfa HealthCare offers flexible licensing models designed to best meet your needs. Whichever model you choose, you're taking advantage of economies of scale by partnering with a single vendor with the capacity to handle installation, service, and support. You're also partnering with a

company that brings more than 100 years of healthcare technology experience to your vendor relationship.

So go ahead. Invest in the comprehensive solution that manages all your patient data, eliminates duplication, and optimizes workflow. Give everyone the information they need, lower your healthcare delivery costs, and provide a higher standard of patient care.

## IMPAX 6:

All the benefits of a comprehensive imaging and information solution — and a healthy return on your investment.



- » SOLID SOLUTION
- » FLEXIBLE TO EVERYONE'S NEEDS
- » ADAPTABLE TO WORKFLOWS
- » SCALABLE
- » FLEXIBLE LICENSING MODEL

## Why Agfa HealthCare?

Agfa HealthCare is a global leader in the fast growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. These specialized solutions integrate IT and imaging systems for Radiology, Cardiology, Mammography and Orthopedics. Agfa HealthCare's enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to match the unique needs of specific healthcare professionals.

For more information, please visit  
[www.agfa.com/healthcare](http://www.agfa.com/healthcare)

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