

IMPAX RIS

Harness the power of your workflow



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By optimizing the entire clinical and administrative workflow, from order evaluation and patient registration to results distribution and management reporting, Agfa's IMPAX™ Radiology Information System (RIS) makes Diagnostic Imaging departments more efficient, enables increased productivity, and allows departments to more effectively serve hospital staff, patients, and referring physicians.

A central component of our award-winning IMPAX Enterprise Suite, Agfa's IMPAX RIS

is a comprehensive, fully-integrated solution that meets your enterprise needs. In addition to IMPAX RIS, IMPAX Enterprise features IMPAX Picture Archiving and Communication System (PACS), Medical Reporting, Solution Monitoring and Management Services (SMMS), and Audit Services.

Integrated with other hospital systems, such as Hospital Information Systems (HIS) and Electronic Patient Records (EPR), the benefits of IMPAX RIS extend well beyond Radiology.

A solution as unique as your workflow



- 1 » Receiving orders and scheduling
- 2 » Procedure protocolling
- 3 » Patient registration and arrival
- 4 » Patient examination/image acquisition
- 5 » Procedure reporting
- 6 » Transcription
- 7 » Results distribution
- 8 » Coding/billing/charge capturing
- 9 » Management reporting



1 Receiving orders and scheduling

Electronic orders received from EPR or HIS are sent to IMPAX RIS for evaluation, scheduling, or immediate processing.

Important: STAT/emergency orders can be defined to immediately and automatically appear on top of the radiologist worklist for direct reporting.

When scheduling, all relevant information provided by the electronic order is taken into account, including all specified criteria to determine the best time slot for an appointment.

Appointments can easily be cancelled or rescheduled, allowing authorized users to handle overbooking and emergency situations.

It's becoming more common for radiology departments to allow nursing units and referring physicians to schedule their own patients. For this specific service, IMPAX RIS provides a web-enabled solution that allows procedures to be scheduled easily from remote locations, while still allowing the radiology department to control the scheduling rules.



2 Procedure protocoling

Procedure protocoling is managed electronically, significantly streamlining the protocol process. Supported by the patient profile and history that are available in the RIS, the radiologist reviews and approves, or changes the procedures ordered and/or planned for the next day or coming days. All information entered by the radiologist is available to the radiological technologist for exam preparation and acquisition. Eliminating the use of paper at this stage minimizes the chance of errors or misinterpretations, and ensures that key information is available to all staff, at all times.

Additionally, by providing a complete view of department workload in advance, technologists do not have to disengage from patient care to discuss procedure protocols with radiologists. As a result, technologists spend more time performing exams, radiologists spend more time interpreting them.



3 Patient registration and arrival

Typically patient demographic information is synchronized with the HIS via an (HL7) ADT interface. In the rare cases when this interface is missing, the information can be entered manually.

At the Radiology reception desk electronic orders for exams are immediately available along with scheduling details. This information automatically populates the service request when the receptionist indicates the arrival of the patient. At this stage all paper forms, such as referrals and prescriptions, can be scanned, which supports a paperless workflow.

IMPAX RIS provides not only back-end (HL7) support for your MPI environment but delivers also the necessary functionality for users dealing with multiple patient identifiers in a multi domain environment.



4 Patient examination/ image acquisition

The medical imaging technologist's worklist provides an instant overview of the pending workload and direct access to the current exam. During the exam, information such as patient data, patient history and alerts is available to the technologist.

Technologists can complete exam data and enter comments including use of consumables, contrast media, radiation dose and other specifics that are required for correct quality management and billing.

There is no need for duplication of data, as IMPAX RIS connects seamlessly to modalities to allow smooth and secure distribution of patient demographic and procedure information.

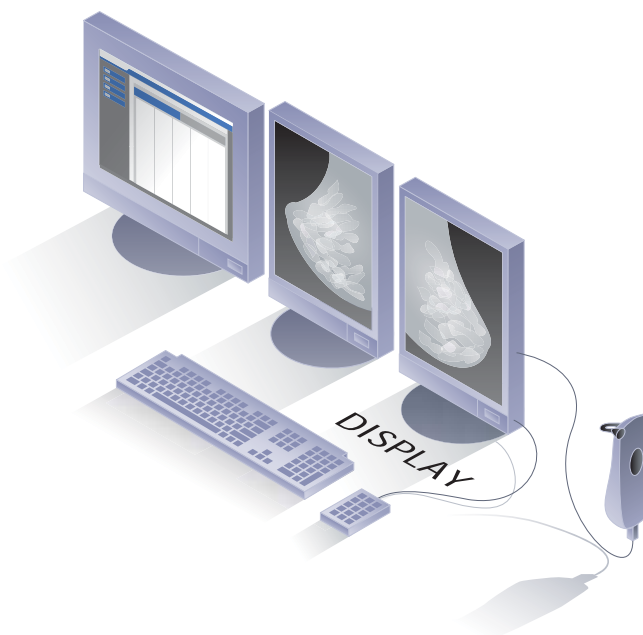
Through the same worklist, the technologist has access to all pending appointments or orders to allow optimal usage of time, staff and equipment in the case of no-shows, for example.



5 Procedure reporting

The radiologist can report the findings as soon as the exam is completed. IMPAX RIS features a single desktop with Agfa's IMPAX PACS. The radiologist selects the exams for interpretation, views current and prior images, accesses patient data and clinical notes and dictates results within the same application. All relevant patient and exam information – patient data, visit information, relevant priors, reporting history and scanned documents – is available. Data is entered once to be shared throughout the system, for an efficiently-documented diagnostic process, saving time and reducing errors.

When speech recognition software is embedded in the system, the full power of digital dictation and speech recognition – with the options of on-line and off-line speech recognition as well as self-correction and deferred correction – is at hand.



7 Results distribution

Agfa's IMPAX Enterprise and other information systems can provide authorized clinicians and practitioners access to results from IMPAX RIS. In addition, results can be distributed on paper, by fax or e-mail to referring physicians and other interested parties. The administrator can select regular times or time periods for batch distribution of results, or the user can choose to print, e-mail or fax any report at any time to any recipient.

6 Transcription

Transcriptionists have immediate access to the list of reports to be transcribed. Manual input is minimized through the use of custom report templates and standard text formats. If speech recognition is available, the transcriptionists simply correct the texts provided by the radiologists if requested to do so. After transcription, reports are made available to the radiologists for review and sign-off. More complex review workflows are supported, e.g. in the case of teaching environments or peer review.

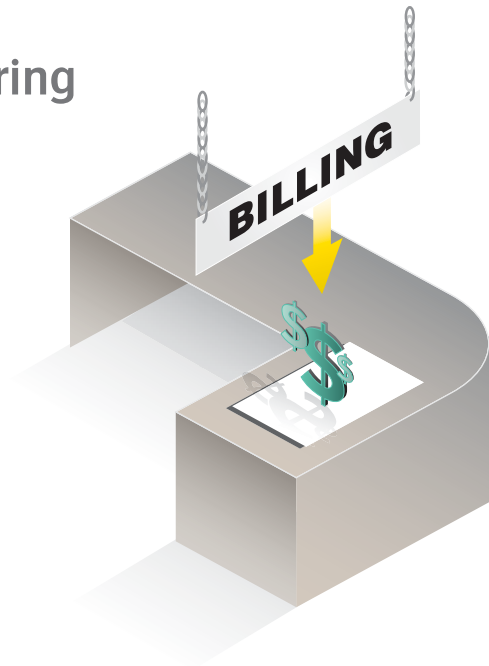




8 Coding/billing/charge capturing

IMPAX RIS supports various international coding standards, such as ICD and SNOMED, as well as national standards. In this way, IMPAX RIS accurately captures billing data, including consumables used during the exam process. By sending this information to the billing system immediately after the exam is finished, IMPAX RIS significantly shortens billing time and ultimately speeds up revenue cycles.

As an extra check before final charge capturing, IMPAX RIS supports, if required, the extra 'Coding' workflow step to allow accurate manual capture of the order details without disturbing the clinical workflow.



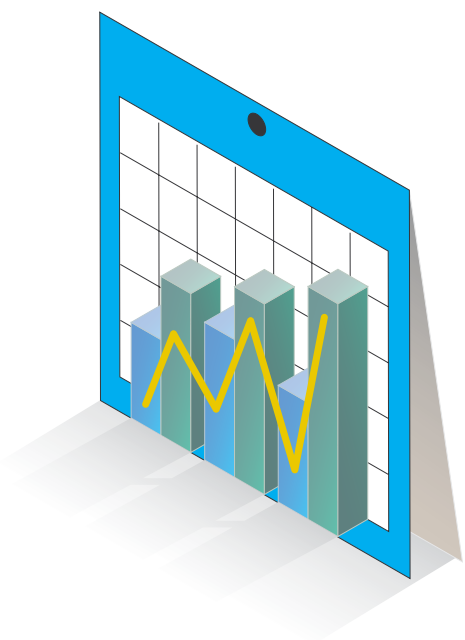
9 Management reporting

With the Business Intelligence Module, users can deliver professional-quality reports in several formats. In addition to the extensive range of canned reports, new or ad hoc reports can be created. An advanced training program teaches all the skills needed for complete management of the reporting tool.

These powerful reporting tools provide the hospital or department management with a solid foundation for decision-making, helping to optimize allocation of costly departmental resources and ultimately to optimize the patient care delivery cycle.

Customized assistance for your specific reporting needs

Agfa HealthCare also offers customized assistance for specific reporting needs. Agfa HealthCare's professional services team can assist in analyzing and creating any specific reports required by a hospital.



IMPAX RIS

Designed for security, versatility and ease-of-use

IMPAX RIS is simple to use. Every type of user – receptionists, radiological technologists, radiologists, transcriptionists, etc. – works in a dedicated environment that meets their specific needs. IMPAX RIS also allows users to customize overviews and worklists, so they can work the way they want.

Secure data protection

Access to IMPAX RIS is protected by an extensive, configurable, rules-based security system. Access to the database is typically restricted to the system administrator, who can define very precisely which user or group of users is authorized to enter, change or view which information. In addition, important actions – e.g. who has accessed (confidential) patient information and when – are logged and can be reported on. These features help organizations comply with HIPAA and other regulations.

Extensive integration and communication options

IMPAX RIS can be used in any hospital; it offers as many benefits to smaller community hospitals as it does to multi-site university hospitals. Based on the HL7 standard, it can exchange messages relating to ADT, orders, appointments, results and billing with the HIS, EPR, digital modalities (DICOM-based), and other systems.

Agfa HealthCare recognizes the importance of the 'Integrating the Healthcare Enterprise' (IHE) initiative and actively contributes in various integration profiles. This is underscored by Agfa HealthCare's active participation in numerous IHE Connectathons and committees.

A single solution supporting multiple workflows and departments within the enterprise

By more effectively managing the entire radiology workflow, IMPAX RIS streamlines processes and procedures within the radiology department, and beyond. The advantages of managing each step in your workflow electronically include greater efficiency, cost savings, and, with the management reporting capabilities of IMPAX RIS, a broader perspective on the patient care delivery cycle.

For radiology administration

IMPAX RIS is versatile and easy to use, and makes procedure registration efficient, comprehensive and reliable. Accurate capture of billing events and secure electronic transmission of data reduces costs and saves time. The optional scheduling module manages appointments quickly and easily, no matter how complex the requirements.

For radiology professionals

Radiologists and radiological technologists can enter and consult all relevant patient data, ordering and exam information using one secure and straightforward tool. When Agfa's integrated IMPAX RIS/PACS is used, providing synchronized access to patient data and images, the radiologists have complete information where and when they need it: the right information on the right patient at the right time and place.

Thanks to the Business Intelligence Module, radiology professionals have immediate access to relevant cases for training purposes, as well as to statistical data for research.

For hospital management

To support department planning, decision-making and productivity evaluation, IMPAX RIS delivers high-quality management reports and statistics. The optional Business Intelligence Module offers tools that provide extensive query and reporting functions in an easy-to-use interface, with flexible export options. These powerful management and reporting capabilities allow for timely adjustments to changing business requirements and help boost efficiency in the radiology department.

For referring physicians

Referring physicians have faster access to results thanks to shorter report turnaround times.

For patients

Patients are better informed and benefit from shorter waiting times and earlier intervention thanks to reductions in overall turnaround times.

FEATURES AND FUNCTIONS THAT STREAMLINE WORKFLOW

- **Scanning of Paper Forms**
Saves documents in the IMPAX RIS database and makes them digitally available throughout the workflow.
- **Patient Tracking**
Monitors patients throughout the workflow, pinpointing delays and optimizing throughput.
- **Procedure Protocols**
Evaluates and specifies procedure information prior to the examination, saving valuable time.
- **Radiation Management**
Records and delivers comprehensive information on radiation dosage.
- **Film Tracking**
Provides up-to-date information on film file location.
- **Support of International Finding Codes**
Supports the use of multi-axial finding codes such as ICD, SNOMED and ACR.
- **Flexible Data Management**
User-definable questionnaires and data fields, comments and attachments allow any kind of clinical data, including alerts, to be stored and shared among all users.
- **Patient History**
A complete chronological overview of the entire patient radiology history, including previous reports, appointments and order/exam details is available to radiology technical and administrative staff. This information is important for radiology support staff and helps them provide service to clinicians who may require information about their patients.
- **Output Management Services**
Routine batch distribution and on-demand distribution of results.
- **Multiple Patient Identifiers Handling**
IMPAX RIS is one of the only solutions that communicates with your MPI system to efficiently cope with multiple patient identifiers.
- **Multi-lingual Capabilities**
Up to three languages can be used simultaneously.
- **Professional Services**
Ranging from workflow analysis, project management, implementation, training and support.

AT A GLANCE: IMPAX RIS

- Powerful and flexible electronic order handling and scheduling
- Easy and efficient patient registration
- Comprehensive worklist generation
- Full integration of PACS- and RIS-related information with optional speech recognition
- Powerful transcription functions
- Shorter report turnaround times with flexible results distribution
- Automatic billing data transmission
- Delivery of professional-quality reports with Business Intelligence Module
- Advanced security system enabling compliance with HIPAA and other security standards

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