iQ

RIS

THE SMART RADIOLOGY WORKFLOW MANAGER

WHO'S NEXT?

VERSION 3.3

OPTIMAL MANAGEMENT OF THE RADIOLOGY WORKFLOW

iQ-RIS is a flexible radiology information system, which can easily be customized to meet the requirements of any hospital or imaging center.

Representing the next generation of radiology information systems, iQ-RIS offers superb tools for the optimization and customization of the radiology workflow and allows an integration with almost any PACS.

Since iQ-RIS is available as a modular system, it can be flexibly adapted to the individual needs of any radiology practice. Even the basic version of iQ-RIS includes a number of valuable features to efficiently manage the workflow:

- A user-friendly calendar
- A comprehensive scheduler
- A consistent electronic medical record system
- An integrated DICOM Modality Worklist provider
- An integral workflow module

The comprehensive calendar and scheduling modules allow for easy administration and planning of all kinds of appointments and procedures. With the included DICOM Modality Worklist provider, the radiology workflow is accelerated, while simultaneously reducing typing errors and ensuring consistent patient data.

Patient histories, any external document or patient-related data can be easily and properly managed by means of the included electronic medical record system (EMR).

Due to the Workflow module, which provides a reliable overview of all scheduled procedures, key data of every scheduled study is easily accessible at a glance.

To customize individual features, the following modules may be added:

- iQ-RIS REPORTING/DICTATION
  DICOM structured reports / electronic dictation and transcription of reports

- iQ-VOICE
  Automatic speech recognition and transcription of reports

- iQ-RIS VIEWER INTERFACE
  Interface for a selected DICOM viewer

- iQ-RIS HL7 CONNECTORS
  Integration with existing information systems like HIS and PACS for shared access to information

- iQ-RIS BILLING
 Billing of medical procedures to insurance companies or to health service providers

To learn more about the additional modules, please refer to the respective brochures.*

VIEWER INTERFACE

iQ-RIS

**REPORTING, DICTATION,
VOICE RECOGNITION**

BILLING

HL7 CONNECTORS
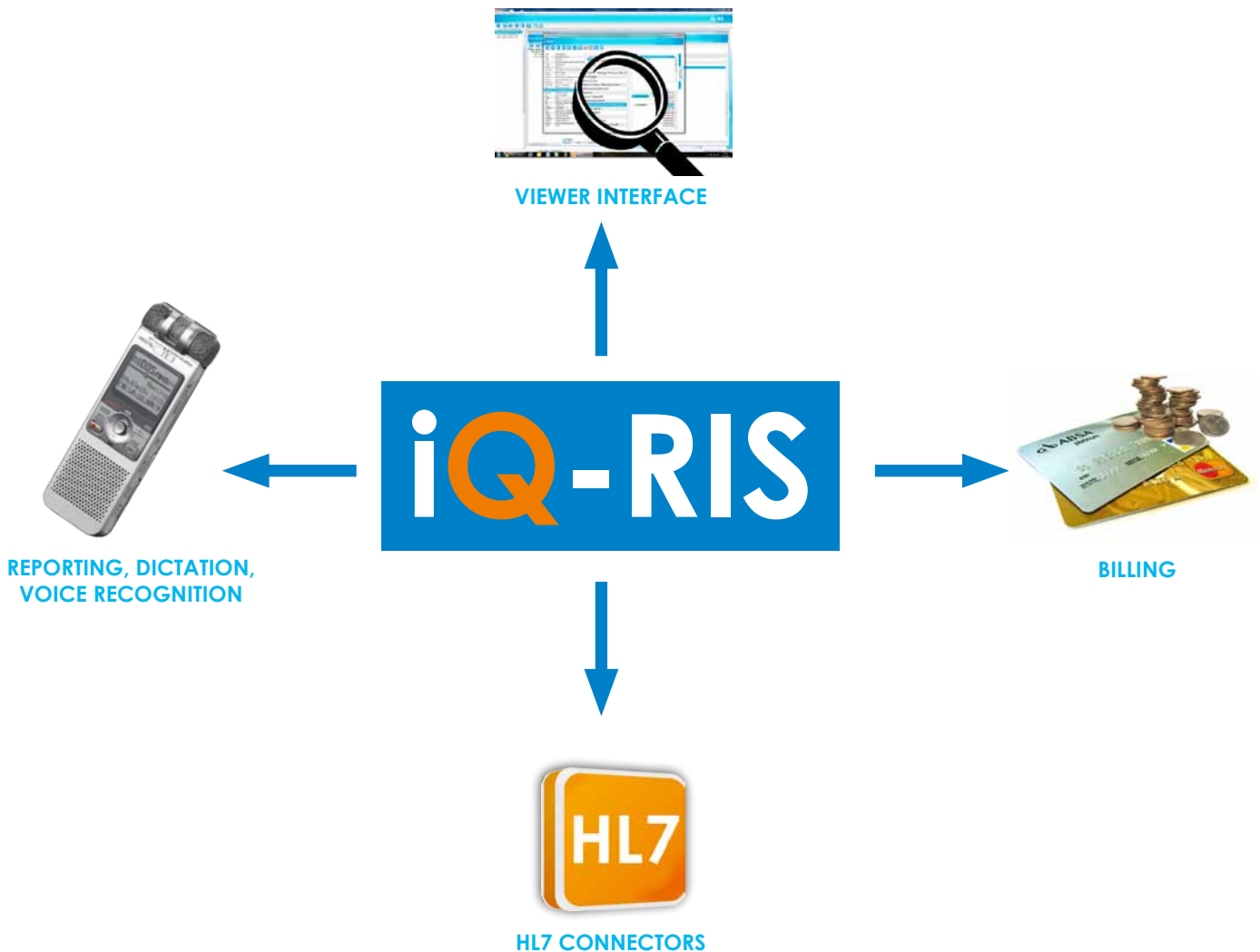
THE SOLUTION CAN BE SO SIMPLE

* Information on the respective system requirements can be found in the iQ-RIS 3.3 Administration Guide.
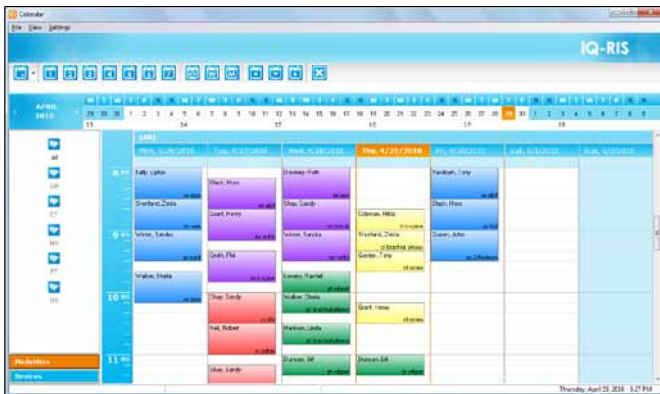
iQ-RIS contains a comprehensive and user-friendly *calendar* optimized for the management of patient appointments.

It offers a general overview as well as various views by time frame, devices or modalities - including combinations of them - or appointment printing.
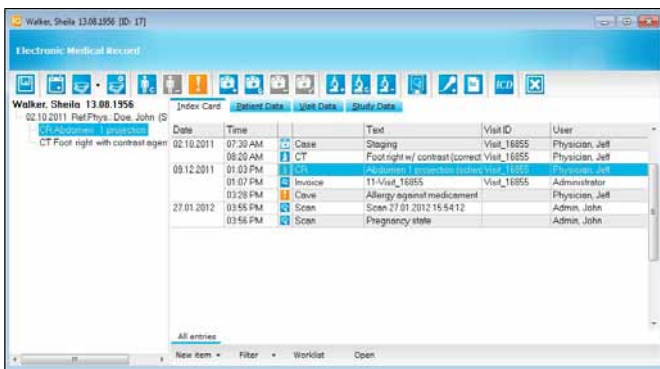
The *electronic medical record (EMR)* contains all patient information such as previous visits, insurance information and scanned documents.

An overview of the patient history is presented in a tree view. The complete EMR data can be found in a table, which can also be filtered by date and time.

All relevant observations regarding the examination or special care for the patient can be recorded as text notes by the front desk staff if required, and can be reviewed by the staff in the following stages.
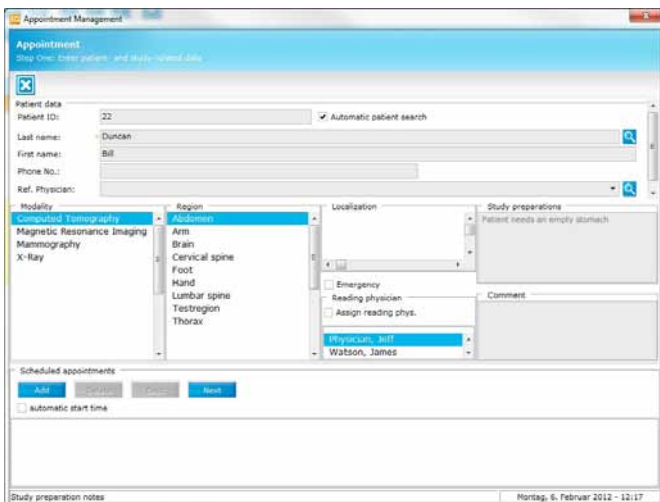

Any additional information for the patient, for example to arrive on an empty stomach, can be entered in the *Study Preparation Notice*.

This reduces the amount of paperwork during scheduling, keeps the reception area free of clutter and adds to improved patient service.
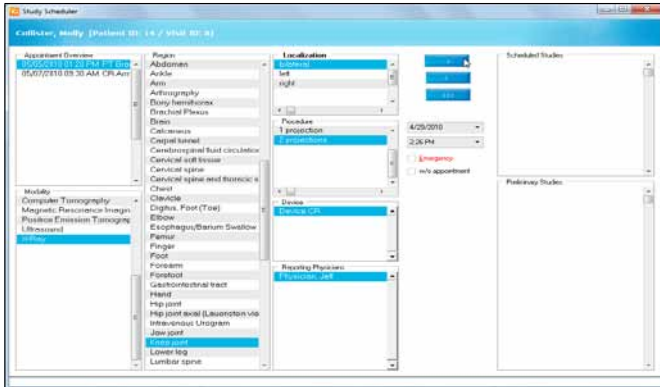
The *iQ-RIS study scheduler* electronically provides details of patient information and scheduled procedures to the DICOM modalities as a DICOM modality worklist, avoiding the need to spend time retyping such information and minimizing the inherent risk of error.
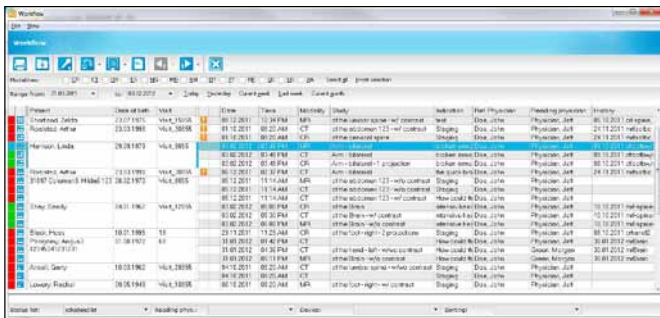
The operator workflow list displays patient information and the scheduled procedures at a glance (e.g. waiting time, indication, referring physician, medical alerts and history).

iQ-RIS offers customizable workflow lists. Sorting lists by column, creating a new list or defining the window that should be displayed upon double-clicking on an entry - all of these features lead to increased flexibility.
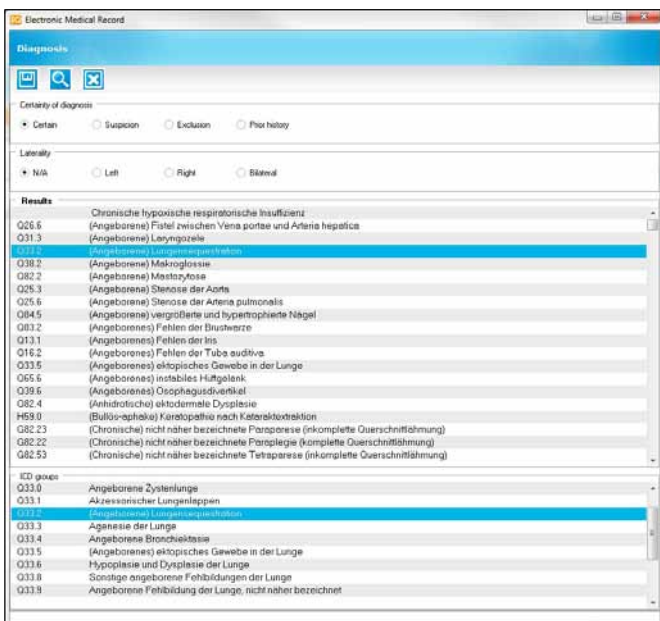
The ICD-10 list offers quick a choice of disease per case or study. Simply choose one of the predefined codes containing a brief explanation from the drop down list.

This newly added feature adds not only convenience but also ensures consistency.

1 Patient → Hospital Information System (HIS) *HL7*

2 HL7

3 Front desk iQ-RIS client

1 Patient

5 Archive client, e.g. iQ-WEBX client

4 Modalities

9 Correction using linked viewer *Reporting / HL7*

6 iQ-RIS REPORTING using linked viewer *Reporting / Dictation / Viewer Interface / HL7*

7 **8** iQ-RIS TRANSCRIPTION / iQ-VOICE *Reporting / HL7*

10 iQ-RIS BILLING *Billing / HL7*

Billing

——— General workflow

- - - - - Enhanced HL7 workflow

iQ-RIS WORKFLOW

1 *Patient arranges appointment*
Patient makes an appointment, patient data is entered in iQ-RIS.

2 *Local HIS sends patient data*
HL7 connector facilitates communication between local HIS and iQ-RIS (optional)

3 *Patient arrives*
Front desk staff confirms patient arrival. Automatic generation of the respective modality worklist

4 *Study is performed*
iQ-RIS provides a virtual waiting room, which shows patient information, study data, waiting time and CAVE entries (medical warnings)

5 *Study is stored*
Modality sends study to iQ-WEBX (PACS); examination is marked as complete in iQ-RIS

6 *Image data is forwarded to workstations (optional)*
a) iQ-RIS automatically opens appropriate studies on iQ-VIEW station (interface included) or b) on any other DICOM Viewer (optional module)

7 *Reporting possibilities (optional)*
iQ-RIS DICOM Structured Report module; dictation using integrated dictation or voice recognition software

8 *Report Transcription (optional)*
Support of online transcription, remote transcription and transcription service providers

9 *Report correction*
Written report can be corrected and validated with iQ-RIS, if applicable

10 *Billing (optional)*
Study can be invoiced in iQ-RIS at any point of the workflow

SCHEDULER/ WORKFLOW

- Creation and management of appointments and grouped procedures
- Go-to-date function to easily find appointments
- Customizable views (time frame, devices, modalities or combinations of them)
- Flexible workflow lists - defining column order or new lists
- Drag-and-drop function for visual editing of appointments
- Creation/alteration of study data from scheduled data
- Various print options: any lists, individual appointments, workflow lists
- Easy-to-use workflow management tool with all relevant information visible at first sight (e.g. waiting time, indication, referring physician, medical alerts, guardian)
- Recording person in charge for each step of the workflow
- Appointment notes can be customized with free text, logo and required study preparations (e.g. empty stomach) (NEW!)
- Vetting list to review procedure requests from the HIS
- Simplified transcription by using an enhanced dictation workflow
- Automatic creation of DICOM worklists for an unlimited number of devices
- Individually configurable device, modality and study status lists

EMR

- Index card system for quick and easy tracking of an unlimited number of records
- Unlimited number of user-defined filters (max 5 for simultaneous viewing)
- ICD-10 list offering quick choice of disease per case or study
- Support of CAVE (medical warnings) and medication entries
- Individually categorized text notes and hyperlinks
- Drag & drop import of multimedia documents and folders

iQ-RIS FEATURES

EMR
- Direct scan of any document to EMR (via TWAIN interface)
- Radiation exposure and material monitoring journal
- Assignment of responsible person/guardian
- Display of pregnancy and allergy status
- Adaptation of EMR to hospital environment (fields added for study-based indication, second indication, referring/requesting/reporting/attending physician)
- Increased EMR performance to quickly open medical records independently of the total data volume in the database (NEW!)

MASTER DATA
- Centralized DICOM nodes, management of institutions, user profiles and referring physicians for multiple sites
- Management of modality, localization, procedure, body part, device and medication
- Password-secured user rights, group rights
- Management of billing codes, prices and health insurances

COMMUNICATION
- Integrated DICOM WORKLIST server for an unlimited number of nodes
- DICOM C-MOVE
- Document export, e.g emailing scanned referrals to insurance company
- Support of third party viewers, e.g. Syngo.plaza (SIEMENS) and Pacs Viewer (INFINIIT) (NEW!)

DATABASE
- Performance support of up to 1 million procedures
- True multisite RIS database with defined access to system, master and dynamic data
- Module for extensive data import (XML based)
- Easy to configure, user-defined input fields
- Central user access management

LANGUAGES
- English, German, Spanish (others upon request)

OUR *COMPANY*
AT A GLANCE

IMAGE Information Systems is an international company group with offices in the USA, Germany and the UK, which offers complete, user friendly and cost-effective medical imaging solutions.

Thousands of satisfied clients all over the world benefit from our state-of-the-art products for PACS, RIS, nuclear medicine, medical displays, X-ray solutions, 3D processing and teleradiology.

We have pioneered several innovations in the market:

- We have introduced MED-TAB, the first DICOM-calibrated medical tablet worldwide to provide superior portable image analysis

- Our iQ-ROUTER supports virtually all DICOM image formats and transfer syntaxes in data transmission

- DICOMReader has the highest available read-in rate of patient CD-ROMs, ensuring compatibility with almost all available imaging modalities and vendors

IMAGE Information Systems provides the second largest digital imaging user forum on earth, enabling users to share knowledge and best practice.

To learn more about us and our products, please visit our website.

www.image-systems.biz

OUR PRODUCTS
FOR YOUR
IMAGING NEEDS

iQ-SYSTEM PACS   The full featured, reliable and affordable PACS
iQ-RIS   The smooth radiology information system
MED-TAB™   Superior portable image analysis