

**RIS** THE SMART RADIOLOGY WORKFLOW MANAGER

# WHO'S NEXT?



# OPTIMAL MANAGEMENT OF THE RADIOLOGY WORKFLOW

LOW

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).

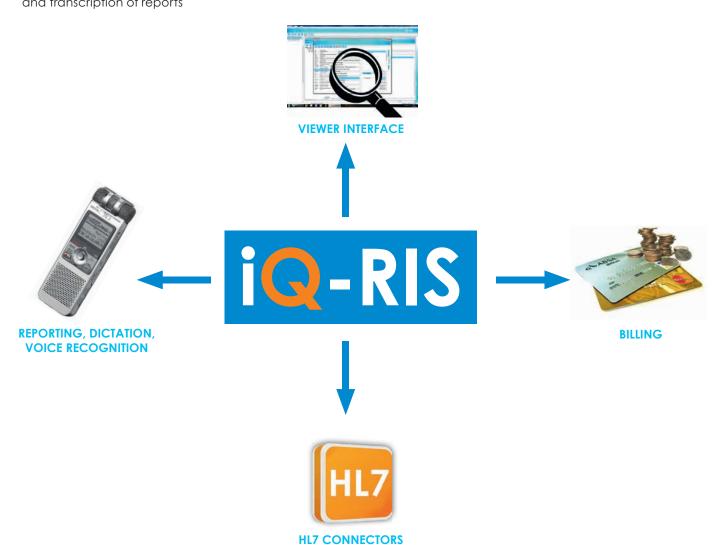
IN NA DE SK

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.



**THE SOLUTION CAN BE SO SIMPLE** 

### \* Information on the respective system requirements can be found in the iQ-RIS 3.3 Administration Guide.



of reports

IQ-VOICE

DICOM structured reports / electronic dictation and transcription

To customize individual features, the

following modules may be added:

IQ-RIS REPORTING/DICTATION

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.\*

	all			1. CT 1. Law?				IQ-RIS
9. <b>M H</b> E								
Area 1	a risula	N N N N N		NUMBER OF STREET	NUMBER OF STREET		A DECK MAN	NUMBER OF STREET
2010 2		23458	7 8 8 90 91 1	12 11 14 15 18 17		1 2 2 2 7 3	10   1 I I 4	5 6 7 1 5
		(14)			10			
			Type Acception	Freed Counciliants	The, 1/20/2010	No. Water 11	and a strength	Des Longing
		Later Lipton		Oberrary Hull		Tendury Tay		
128			iles, then					
		Starfard Zela		Mineri Shar Cardy		Dack, Rent		
	-		Usert Herry		Coleman, Hildo	111111111		
		Water, Seaths	-	Witter Swills	Building Table	m foil Crowing, Julie		
1471-	1.000				ar brach is piram			
er.	-	and	Smith Else	- wate	Garder, Fire charges	x.25m		
		Wahen, Starle	00.004	Lonary, Hartel				
-	10 ==		They Sandy	at shared Weben (Decks				
		_		af maileid plana	Grad Lines			
			Tel. Richert	Harton Linda	etores			
			1000	at man last phone				
	11.95		1.000	Dates M	Durses Ed.			

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.

ulker, Sheila 13.08.1956 02.10.2011 Ref.Phys. Dae. John (S			dia .	Visit Dota	1.0	Transfer in		
CR Abdomen 1 projection	Date	Time	1.2		Text	Visit ID	User	
CT Foot right with contrast agen	02.10.2011	07:39 AM		Case	Staging	Visit_16855	Physician, Jeff	
		08.20 AM	1	CT	Foot right w/ contrast (correct	Visit_16855	Physician Jeff	_
	09.12.2011	01.03 FM		121	Adumen I projection (ucher	V100_10000	Administrator	
		01:07 FM		Invoice	11-Viait_16855	Visit_16855		
		0328 PM 0355 PM	브	Cave	Allergy against medicament		Physician, Jell	
	27.01.2012			Scen	Scen 27 01 2012 16 54 12		Admin, John	
		03.56 PM	1.1	Scen	Pregnancy state		Admin, John	

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.

Appointment See One entire					
atient data Patient ID:	22 Duncan		✓ Automatic patient search		Q
last name: linst name: Phone No.: Ref. Physician:	Bill				• 01
Ker, Frigholant Modeling Canadatad Tamaga Lefy Mammography X-Ray Parkal Resonance Imaging Mammography X-Ray Parkal Sprine Foot Hand Lumbar Sprine Testregion Tharax		Abdomen Arm Brain Cervical spine Foot Hand Lumbar spine Testregion	Lookation	Study preparations     Preform for a constraint to the set of	
Scheduled appoin	DOWNER TO DAT	. Red			

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.

Appointment Diverview	Abdomen -	Localization		B	Scheekand Skaders	2
5,07/2810 09 30 AM CP4 Am	Andon Aride Aride Aride Aride Aride Arim Aride Arim Artinoumply Boiry hemitistes Dirachiel Plexus Bree Calconesis Company and Bud circulator Consoli scela Secure	Poundan Poundan Poundan Poundan Proportion	4/25/2010 2,25/24			
	Cervical spine		w's appoints	nord		
-	Cervicel spine end thorncic s Chest	1 Int 1			Prelicinary Studies	
Computer Tomography Augmetic Resconance Inargen Positive Emission Tomograp Alessand	Clexicle Dights, Fost (Toe) = Elbow Esophagus, Barum Swallow Femur Finger Floot	Device Bennes CB				â
8	Forebot	Reporting Physicians Transiston, Jet	-1			
	Gastromathal tract Hand Hip joint Hip joint avail (Lauonstan via					
	Intravenous Urogram Jow joint					
	Lowerleg Lumborspice		-			

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.

-												
-												
-			PR 19	17	-						_	
1.1.1			PPI - PP	1.6	-							
10760	10110-0	21 25 3	5 PE 5	4 . 12	TOTAL THE	0.00	24	instig postanetor				
	- 11.00.201 -	No. 18912-2012	· · ]4		delly Gent	and had	-	tyre.				
	the state of the s	Date of Lat.	1114		Dem	Tara	-	Statu	Marries .	Bet Physican	Pending processo	Hamly
	etine Selda	23.071975	Viat HUSE	5.1.	801220031	12-34 654	Lancaupy Lan	the work same with the set	warytes:	Dox John	Phonecies, Jet	Bi 10 2001 of span
	off field of the	23.031998	Vice, 30258	-11-	81 12 2011	05 20 244	CT	of the abdomin 123 - w/ costraid	Steams	Dog Join	Physician Jul	24112011 melocit
2100	SVD2 MIN	20.0313990	116.6, 200.95		NE 10 2011	0120 AM	OR	of the canadal space		Dise John	PROSENT JAT	24 11 2011 métarite
100	rison Linda	29.081875	Vice.0855	1	11.15.2531	00.50 964	- Ch	HALFS CARACING A BUR	Concision of	LOOK, COM	110/00/00/00/00/00/00/00/00/00/00/00/00/	24.11.2011 198516
	rico: Linda	10/01/07	Y64,3859	-	8148 2017	0141194	CL	Arm I Breavel	traker ones	Contraction (14)	Physicish Jul	83 10 2011 stortes
				-	43.02.2012	0141044	cit	Am-stearst-1 attacker	bicket anno		Phonean dat	10.12.2011 (Macilian
100	ALL	73731995	VIA STOR	1 mil	86 22 2011	BU DUPM	CT.		the part line		Physical Jay	24 11 2011 reduction
	197 Colomet & Hikbell 122		Vice MIS		4512 2011	11 11 14 148	10	of the woldcreen 123 - who costneys		Dog Jote	Physician Jul	Con a serie a series of
1.17	IN COMPLETE PROPERTY		APPENDED IN		45.12 2011	1114.44	CT.	othe abcorder 123 with contrast		Dos Jote	Physicist Jet	
					061220011	11116,888	CT.	at the statement 125 view costraint	How pould the		Physician July	
the s	AV SHAR	2423 1962	Vist 120%		8140.2012	10.01124	CR:	streiten.	seator, heat		Florence Jat	10.102011-04-424
					01.00.2012	05 31 PM	CT	at the Brain - w/ contrast	anaraha has	Dog Join	Phylecien July	10.10.2011 ref-cpie
					81.02.2012	OC-90 PM	641	stime likes a wide contrast	statute bat	Dise John	Physicist Jet	10.102011 ref spin
1.64	sit. Heres	10.01.1995	12		28112011	1128 AM	CR	of the foot-right-2 protections		Dos Jote	Physician July	88.10.2011 phares
	techny, Angus 1	01.08.1922	63		31 00 2012	014793	CI		How could be		Physician Jat	30.012012 rolline:
121	4514(13)(17)				33.01.2012	0135 FM	CT	stime tend - fait- when potents	How could the		Groun Molgen	30.01.2012 rollinger
3					31.012012	DOT FM	MIL	stime Grain regio costraut	(Row could %)	Dox. John	Gener, Marcon	30.012012 millionin
(An	cell Gerly	10.031962	Vol.8,28298		0116.2011	03:20 AM	CT	affine tambrar sprink + w/we cominant		Dos.John	Physiciles date	
					00102011	0121 AM	CT.			Dist. Join	Physician Jet	
1.40	vory Redui	28.051948	Vice, 38055		86162011	0120 AM	MR.	at the foot-right-we be that	Daging	Dos Join	Physician Joh	

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).

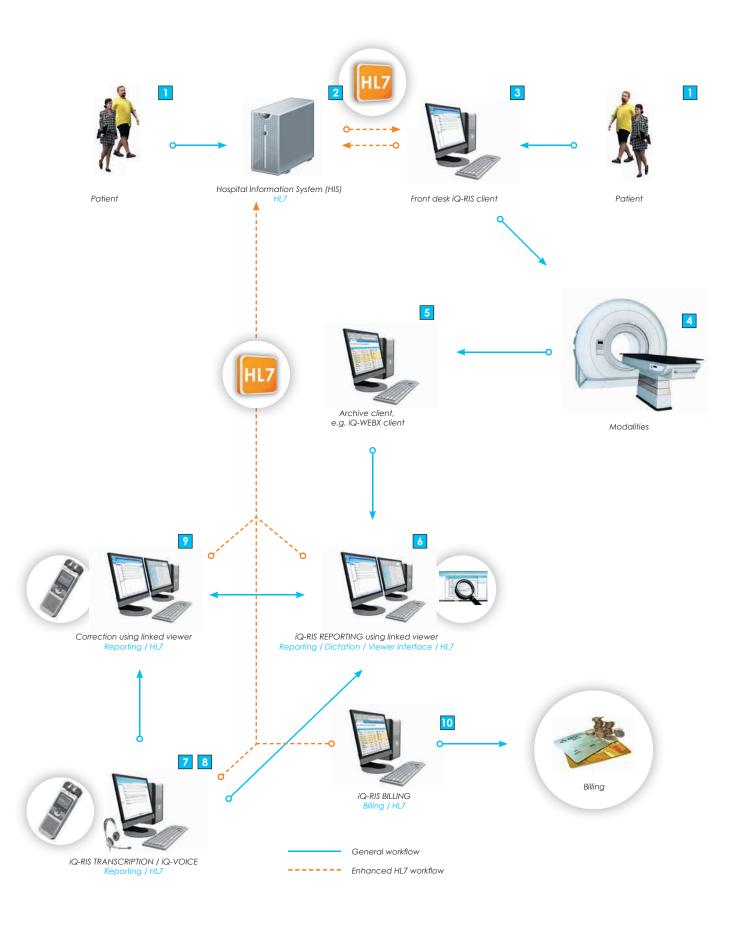
iQ-RIS offers customizable workflow lists. Sorting lists by column, creating a new list or defining the window that should be displayed upon double-clicking on an entry - all of these features lead to increased flexibility.

Electronic M	edical Record	
Diagnosis		
<u> </u>		
Certainly of diag	ponis	
Certain	C Suspicion C Exclusion Prior history	
Laterality		
• N/A	C Left C Right C Bildered	
Results		
	Chronische hypoxische respiratorische Insulfizienz	
026.6	(Angeborene) Fistel zwischen Vena portae und Arteria hepatica	
031.3	(Angeborene) Loryngozele	
1993	(Angeborene) Lungemequentitation	
038.2	(Angeborene) Makroglossie	
2.280	(Angeborene) Mastozytose	
225.3	(Angeborene) Stenose der Aorte	
025.6	(Angeborene) Stenose der Arteria pulmonalis	
084.5	(Angeborene) vergrößerte und hypertrophierte Nitigel	
083.2	(Angeborenes) Fehlen der Brustwarze	
Q13.1	(Angeborenes) Fehlen der Ins	
016.2	(Angeborenes) Fehlen der Tuba auditiva	
033.5	(Angeborenes) ektopisches Gewebe in der Lunge	
065.6	(Angeborenes) instabiles Hirtgelenk	
039.6	(Angeborenes) Osophagusdivertikel	
082.4	(Anhidrotische) ektodermale Dysplasie	
H59.0	(Bullos-aphake) Keratopathie nach Kataraktextraktion	
G82.23	(Chronische) nicht näher bezeichnete Paraparese (inkomplette Querschnittlähmung)	
G82.22	(Chronische) nicht näher bezeichnete Paraplegie (komplette Querschnittlähmung)	
082.53	(Chronische) nicht näher bezeichnete Tetraparese (inkomplette Ouerschnittlähmung)	
ICD groups -		
Q33.0	Angeborene Zystenlunge	
033.1	Akzessonischer Lungenlappen	
01010	(Angeburene) Lungen requestration	
033.3	Agenesie der Lunge	
033.4	Angeborene Bronchiektosie	
033.5	(Angeborenes) ektopisches Gewebe in der Lunge	
033.6	Hypoplasie und Dysplasie der Lunge	
033.8	Sonstige angeborene Fehibildungen der Lunge	
933.9	Angeborene Fehlbildung der Lunge, nicht näher bezeichnet	

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.

### iQ-RIS WORKFLOW



### iQ-RIS WORKFLOW

### 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)

### <sup>3</sup> 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

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)

### **Z** 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



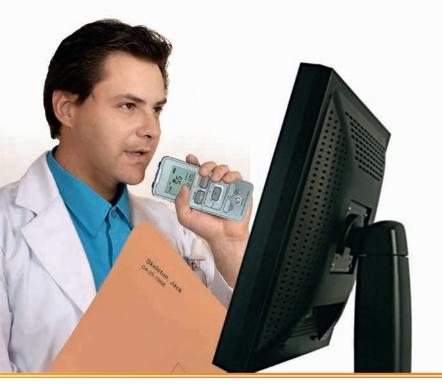
### iQ-RIS FEATURES

### 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	<ul> <li>Direct scan of any document to EMR (via TWAIN interface)</li> <li>Radiation exposure and material monitoring journal</li> <li>Assignment of responsible person/guardian</li> <li>Display of pregnancy and allergy status</li> <li>Adaptation of EMR to hospital environment (fields added for study-based indication, second indication, referring/requesting/reporting/attending physician)</li> <li>Increased EMR performance to quickly open medical records independently of the total data volume in the database (NEW!)</li> </ul>
MASTER DATA	<ul> <li>Centralized DICOM nodes, management of institutions, user profiles and referring physicians for multiple sites</li> <li>Management of modality, localization, procedure, body part, device and medication</li> <li>Password-secured user rights, group rights</li> <li>Management of billing codes, prices and health insurances</li> </ul>
	<ul> <li>Integrated DICOM WORKLIST server for an unlimited number of nodes</li> <li>DICOM C-MOVE</li> <li>Document export, e.g. emailing scanned referrals to insurance company</li> <li>Support of third party viewers, e.g. Syngo.plaza (SIEMENS) and Pacs Viewer (INFINIIT) (NEW!)</li> </ul>
DATABASE	<ul> <li>Performance support of up to 1 million procedures</li> <li>True multisite RIS database with defined access to system, master and dynamic data</li> <li>Module for extensive data import (XML based)</li> <li>Easy to configure, user-defined input fields</li> <li>Central user access management</li> </ul>
	• English, German, Spanish (others upon request)
A da	

## OUR COMPANY AT A GLANCE

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

More than 10,000 satisfied clients all over the world benefit from our state-of-the-art products for PACS, RIS, X-ray solutions, 3D processing and teleradiology. We have pioneered several innovations in the market:

- We have introduced MED-TAB, the first DICOM-calibrated portable display for medical 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 media, 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

# ACS

### iQ-SYSTEM PACS iQ-RIS MED-TAB™

The full featured, reliable and affordable PACS The smooth radiology information system Superior portable image analysis

**OUR PRODUCTS** 

FOR YOUR

**IMAGING NEEDS** 

Stamp of sales partner



IMAGE INFORMATION SYSTEMS EUROPE GMBH LANGE STR. 16 | 18055 ROSTOCK | GERMANY TEL. GER: +49 381 496 5820 | TEL. INDIA: +91 33 4600 0657 TEL. US: +1 470 300 4480 WWW.IMAGE-SYSTEMS.BIZ | INFO@IMAGE-SYSTEMS.BIZ