iQ WEB

PACS FOR STORAGE, ARCHIVING AND TELERADIOLOGY

YOUR PACS, YOUR FREEDOM

VERSION 6.7.1

THE CAREFREE, ALL-INCLUSIVE PACS

iQ-WEB is a complete, easy-to-use and affordable PACS for storing, distributing and viewing of medical imaging studies and reports.

As a complete solution, the iQ-WEB PACS consists of several applications in one package:

DICOM Server: This application enables communication between the modalities and the archive server. It is essential for image storage, query/retrieve, forwarding, printing, as well as importing and exporting any kind of DICOM object.

Vendor Neutral Archive (VNA): iQ-WEB can store up to 500 million images in a single database and includes hierarchical archive support for short-term and long-term archives. When used in combination with iQ-ROUTER PRO, the archive is even more flexible and customizable. A second iQ-WEB server can automatically be synchronized to ensure up-to-date disaster recovery options.

Native VNA included: iQ-WEB stores any file format, e.g. endoscopy, microscopy, pathology.

Web Server for an unlimited number of users: This server allows the secure web-based distribution of any medical image and report to an unlimited number of web users, combined with efficient user management and strict authentication procedures.

iQ-WEB ADD-ONs

Optional Add-ons:
There are several add-ons available for iQ-WEB which serve different medical image viewing or interfacing needs.

iQ-4VIEW - diagnostic zero-footprint reading at high speed for virtually any browser, operating system and device (desktop computer, tablet, smartphone)

iQ-X - diagnostic web viewer for reading and processing of DICOM images using Internet Explorer®

iQ-3DVIEW - zero-footprint tool for web-based 3D visualization of CT and MRI series

iQ-WEB2GO - mobile viewer for basic web-based viewing of radiology images on any tablet or smartphone

Licensing: Depending on the user's needs, iQ-WEB allows for a variety of configurations. Options are available depending on the number of DICOM nodes that will be connected. Packages include 2, 5, 10, 20 or even an unlimited number of DICOM nodes (Application Entities). iQ-WEB can further be ordered with or without the iQ-4VIEW, iQ-X or iQ-3DVIEW web viewers.

Special iQ-WEB Features:

Easy Search Features: Thanks to the innovative EasyWEB feature, physicians maintain an overview of all studies. They can conveniently search and filter the database to quickly find desired studies. Images and documents (PDF or Structured Reports) can be attached to a study and shared with referring physicians or colleagues.

Web-Based Administration: Configuration, maintenance tasks and quality monitoring of the system can be performed via web browser with no need to be directly in front of the server.

Web-Based Reporting: With iQ-4VIEW's integrated report editor or the optional iQ-X reporting module physicians can create DICOM Structured Reports online from anywhere in the world.

Highest Level of Privacy: iQ-WEB is a HIPAA compliant system. Referring physicians may log in to review only their own cases while the chief radiologist can be granted access to the entire patient database. Imaging data can also be shared among physicians, while staying compliant with strict privacy regulations.

Patient Reconciliation: All stored studies can be verified with a DICOM WORKLIST. Study data can be automatically corrected in an IHE compatible protocol to ensure that consistent image data is stored in the archive.

WADO: This optional interface can seamlessly integrate iQ-WEB with virtually any medical information system in order to provide quick and easy access to imaging studies and reports from a HIS, EMR or practice management system.

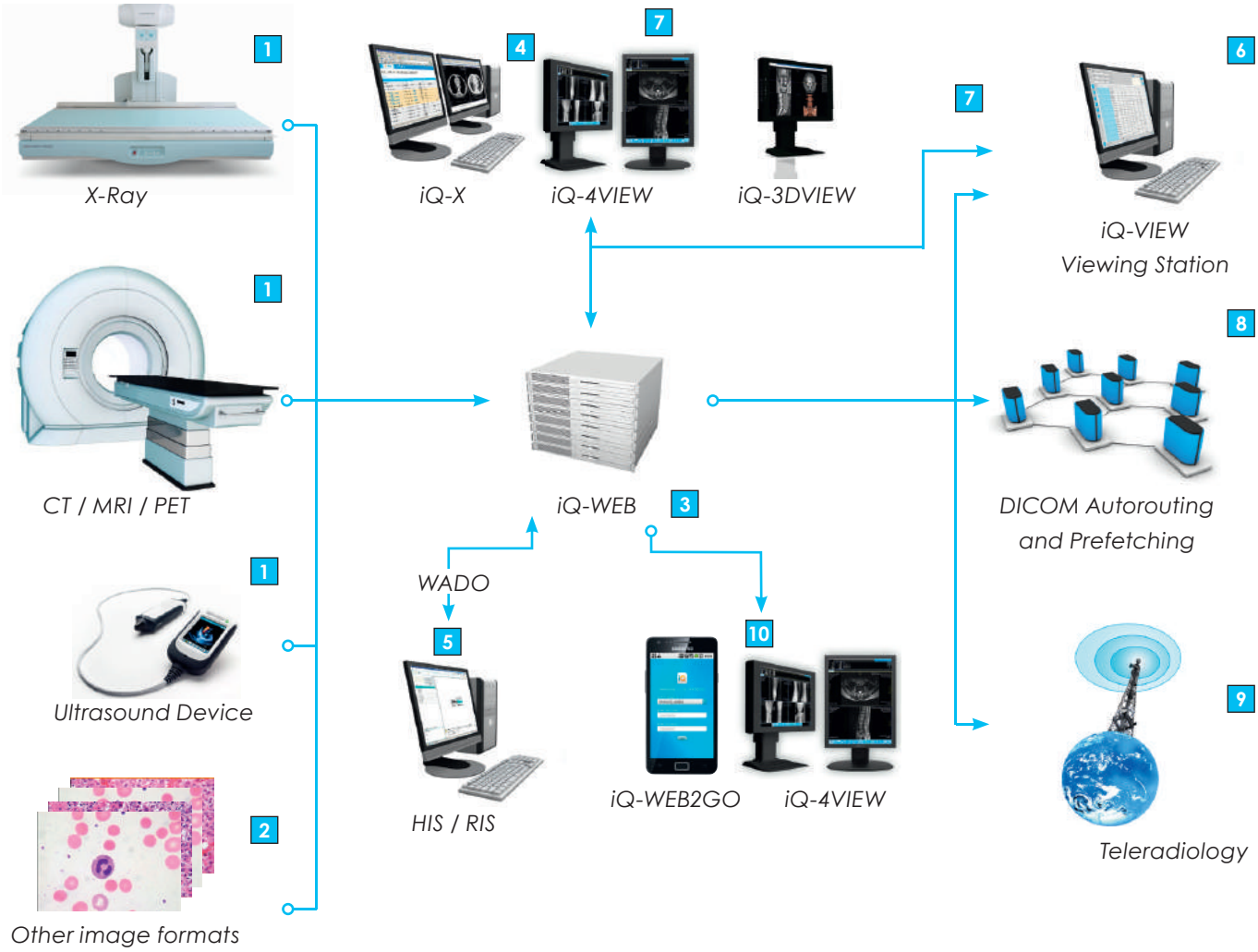
Web-Based DICOM Print: Images can be printed from the web client to a remote DICOM imager.

Email Alert Notification: Once a new study or report is ready for viewing, the referring physician can automatically be alerted via email or text message which includes a link to the image. (This feature uses a 3rd party mail2SMS gateway service with possible additional costs).

Referring Physician Portal: Imaging centers can offer referring physicians access to their own cases so that they can view them anytime and anywhere without requiring additional software.

THE SOLUTION CAN BE SO SIMPLE

iQ-WEB WORKFLOW



1 *iQ-WEB is typically connected to all DICOM modalities in an imaging network, such as X-Ray, CT/ MRI/PET and Ultrasound.*

2 *iQ-WEB supports a wide variety of image formats which are specified in the respective DICOM Conformance Statement.*

3 *As a vendor neutral archiving system, iQ-WEB serves as the core of an imaging network, offering advanced features such as automatic patient reconciliation when paired with any hospital information system via a worklist.*

4 *The optional viewers iQ-4VIEW, iQ-X and iQ-3DVIEW allow medical images to be viewed in diagnostic quality.*

5 *iQ-4VIEW and iQ-X can be seamlessly integrated with virtually any medical information system using the optional WADO function.*

6 *Reading stations, such as iQ-VIEW, can be connected directly to iQ-WEB using DICOM communication.*

7 *Structured Reports can be created using iQ-VIEW or the integrated iQ-4VIEW and iQ-X viewers. Reports obtained from hospital information systems can be received via the optional iQ-WEBX REPORT CONVERTER module.*

8 *The intelligent autorouting feature forwards studies based on predefined criteria to any DICOM compliant station. Even prefetching previous studies for the same patient can be included, if desired.*

9 *Efficient teleradiology connections are achieved by built-in data compression algorithms, allowing iQ-4VIEW and iQ-X users fast access to images and return of reports.*

10 *The optional iQ-WEB2GO module facilitates radiology viewing via mobile devices for fast and easy access to medical images from anywhere.*

*iQ-WEB FEATURES**

SERVER

- Server instance monitoring
- Enhanced server statistics (e.g. studies received from DICOM nodes or institutions per period)
- Automatic patient reconciliation via worklist
- Complete 64 bit architecture for high-performance scalability

DATABASE

- 64 bit MySQL
- Automatic synchronization with other DICOM servers
- Configurable overflow management (high water/low water, study date, custom settings)
- Stores up to 500 million images**

COMMUNICATION

- DICOM PRINT and DICOM WORKLIST clients
- Rule-based auto-forwarding of data sets
- Emergency management with priority routing
- Restricted forwarding to user-selected AE titles
- Enhanced auto-routing due to advanced scheduling options
- WADO (web access to DICOM objects) (optional)
- Email notification when new study has arrived
- Sends images as JPEG via email
- Breast tomosynthesis support

WEB

- Unlimited number of users and concurrent users by default
- Access portal for referring physicians and patients***
- Automatic browser detection in the EasyWEB page
- Can open studies in iQ-VIEW from EasyWEB page
- Displays all color/grayscale images and structured reports
- Web-based query of external DICOM archives
- Web-based transfer of images to DICOM destinations
- Attach files and notes to images or studies
- Web-based DICOM MPEG video management
- Additional coercion rule trigger by defined DICOM tags (e.g. institution name, involved physician, modality)
- Character sets supported (only one character set at a time), see DICOM Conformance Statement for details

DATA AND USER MANAGEMENT & SECURITY

- User login credential synchronization from active directory via LDAP
- 16 different privilege settings for each user/group
- User access control
- Two-factor authentication to meet FDA cyber security and GDPR requirements (NEW!)
- Flexible login by using either username or email address (NEW!)
- Enhanced user rights management (e.g. multiple user access filter, user assignment based on AE title)
- Definition of password complexity rules
- User blocking after more than 5 failed login attempts (2 hours)
- Group admin rights e.g. to manage users of certain institutions (NEW!)

* Detailed information on iQ-WEB's system requirements is available in the iQ-WEB Administration Guide or the Hardware Purchasing Guide.
** Depending on hardware and database system used
*** Subject to properly filled DICOM data

iQ-WEB FEATURES

CYBER SECURITY

- Effective protection against cyber attacks by
  - Enhanced email functionality (transmission via SSL/TLS protocol)
  - Updated web server components
  - Support of MySQL 5.7

IMPORT/EXPORT

- Web-based import of any DICOM media
- Web-based burning of patient CDs/DVDs when using optional iQ-LITE viewer (NEW!)
- DICOM export function

LANGUAGE

- English, German, Russian, Spanish, French, Chinese, Polish, Ukranian, Albanian (included by default), other languages upon request (NEW!)
- DICOM export function

LICENSING

- Available for 2, 5, 10, 15, 20 or an unlimited number of DICOM nodes

COMPATIBILITY

- iQ-WEB 6.7.1 is compatible and available in one setup with:
  - iQ-4VIEW 2.1
  - iQ-X 2.2
  - iQ-WEB2GO 1.2

CERTIFICATION

- CE 0482 and FDA 510 (k)*

WADO FEATURES

(OPTIONAL)

GENERAL

- Study/image evaluation via direct opening of a viewer from 3rd party applications
- Temporary or permanent external diagnostic access to selected studies via WADO links

ACCESS

- Single Sign On using predefined login data for automatic authentication (no need to log in twice)
- Customizable duration of link validity, e.g. to limit PACS access to 4 weeks
- Creation of WADO links as QR codes to provide fast access to diagnostic-quality studies and reports to referring physicians/colleagues via smartphone or QR code reader (NEW!)

SUPPORTED CALLS

- Patient IDs, Accession numbers, Study Instance UIDs, Series Instance UIDs, Patient names, Date of birth (NEW!)

SECURITY

- High security by optional AES encrypted WADO IDs
- Compliant with US and European data protection laws and regulations

* iQ-WEB is a component of iQ-SYSTEM PACS 1.5 (FDA UDI B403IQ150).

iQ-WEBX REPORT CONVERTER

(OPTONAL)

The optional iQ-WEBX REPORT CONVERTER module uses a state-of-the-art algorithm to automatically convert and transmit DICOM Structured Reports and HL7 text reports between information systems and iQ-WEB.

GENERAL

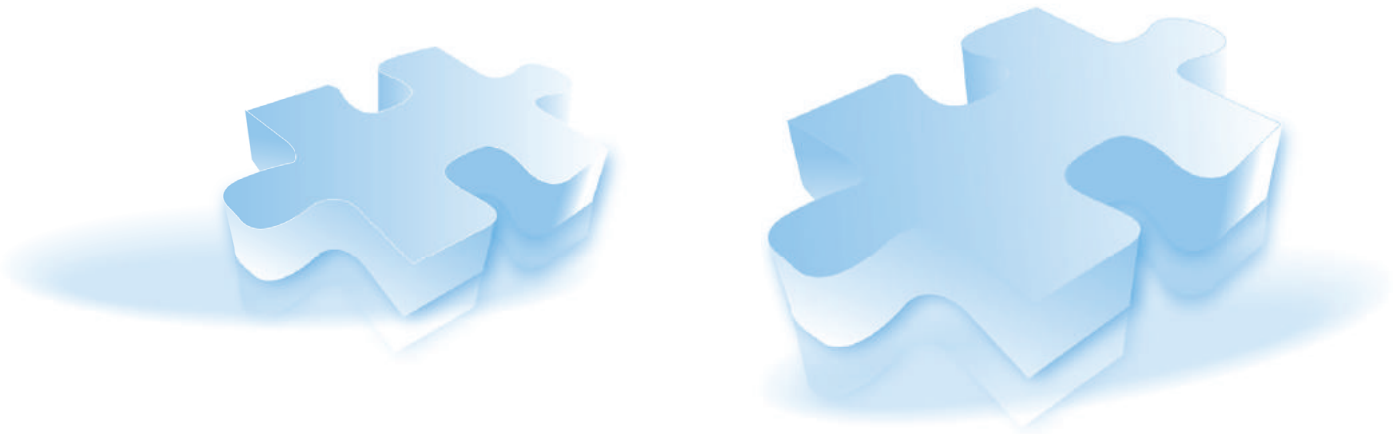
- Compatible with virtually any HL7 compliant EMR, HIS, RIS or practice management system
- Supports Latin-1 ext. A character set

INPUT

- Receives HL7 ORU^R01 messages (see HL7 conformance statement for iQ-WEBX REPORT CONVERTER)
- Queries for incoming DICOM Structured Report (see DICOM conformance statement)
- Supports one report per message

OUTPUT

- Sends DICOM Structured Report to iQ-WEB (PACS)
- Sends HL7 ORU^R01 to any HL7 compatible Information System
- Sends HL7 ACK messages to acknowledge the report has been received



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.

Thousands of 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

© 2018 IMAGE Information Systems Europe GmbH – Medical Imaging with iQ! – iQ-WEB 6.7.1 PUB INT EN - 001R
Picture proof: Pictures by www.Fotolia.de • www.istockphoto.com • www.shutterstock.com

OUR PRODUCTS FOR YOUR IMAGING NEEDS

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

شرکت پیشگامـــان صنعـت تایمـــاز (سهامـی خـاص)

TAIMAZ [a.k.a. Pishgaman Sanate TAIMAZ Co.]
Reg.No. 246910 Tehran, Iran

1st & 6th Floor, Bucharest Tower,
Ahmad Ghasir St., Argentina Sq., Tehran, Iran
Tel.: (+9821) 88382820 - 38 | Fax: (+9821) 88382839
www.taimaz.com | info@taimaz.com

IMAGE INFORMATION SYSTEMS EUROPE GMBH
LANGE STR. 16 | 18055 ROSTOCK | GERMANY
TEL. GER: +49 381 496 5820 | FAX GER: +49 381 496 582 99
TEL. US: +1 704 323 6663
WWW.IMAGE-SYSTEMS.BIZ | INFO@IMAGE-SYSTEMS.BIZ