iQ

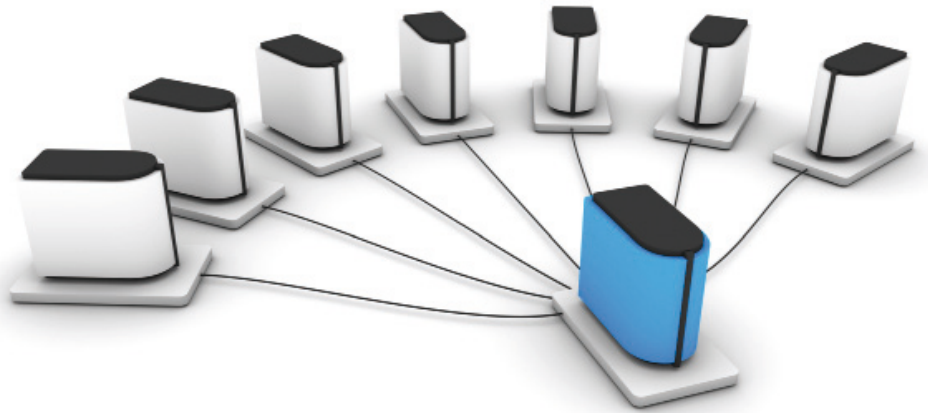## WEBX

THE DICOM SERVER FOR STORAGE, TELERADIOLOGY AND IMAGE DISTRIBUTION

ONE FOR ALL

iQ-WEBX - A FAST DICOM ARCHIVE AND A WEB-BASED VIEWING AND MANAGING INTERFACE IN ONE SYSTEM

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

iQ-WEBX Release 6 presents a completely renewed web interface design, which is extremely easy to use and allows for a well-arranged overview of all studies.

As a complete solution, iQ-WEBX consists of several applications in only one package:

DICOM Server: This application enables communication between the modalities and the Archive Server. It is therefore important for image storage, query and retrieval, forwarding, printing and DICOM-formatted media interchange by import and export functions.

Archive Server: It stores up to 500 million images in one database on a local or network attached storage device. A second iQ-WEBX server can be automatically synchronized in order to permanently ensure up-to-date backup.

Web Server: This server allows the web-based distribution of any medical images and reports, based on efficient user management and secure authentication procedures, to an unlimited number of web users. It is even possible to query other DICOM archives. Thanks to the innovative feature EasyWEB, physicians maintain an overview of all studies. They can now easily search and filter the database individually to quickly find the required studies.

iQ-X Web Viewer: This is a powerful plug-in for browsing, reading and processing DICOM images through every network. It provides an interactive diagnostic web viewer with all clinically required image processing features such as measurements, stack mode, cine mode and study comparisons. iQ-X allows an additional series to be preloaded in the background while images are being viewed. The graphical user interface is based on the leading DICOM viewer iQ-VIEW.

Special features of the iQ-WEBX Server:

Licensing: Depending on the user's needs, iQ-WEBX is available in different configurations. It can be ordered with or without the iQ-X Web Viewer; in the latter case, it is labeled iQ-WEB. There are several packages available depending on the DICOM nodes to be connected; it comes in packages supporting 2, 5, 10, 20 or even an unlimited number of DICOM nodes (Application Entities).

Web-Based Administration: Allows for proper configuration, adaptation and quality monitoring of the system.

Web-Based Reporting: Using iQ-X and Internet Explorer, physicians can create web-based DICOM Structured Report. This can be done from anywhere in the world - even from a laptop computer.

Privacy: iQ-WEBX is a HIPAA compliant system. Referring physicians may log in to the system to review their own cases while the chief radiologist can be given access to the entire patient database. By using the Shared Archive feature, it is possible to share imaging data among physicians, in compliance with strict privacy regulations.

Patient Reconciliation: All stored studies can be verified with a DICOM WORKLIST and with optional HL7 messages. Study data can be automatically corrected in an IHE compatible protocol to ensure consistent image data is stored in the archive.
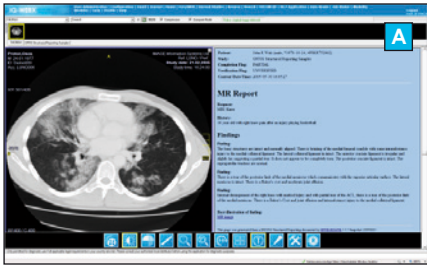
DICOM Print: Images can be printed from any web client on a remote DICOM imager.

Email Notification: Once a new study or report is ready for viewing, the referring physician is automatically alerted via email or text message (only possible by using a 3rd party mail2SMS gateway service with additional costs).
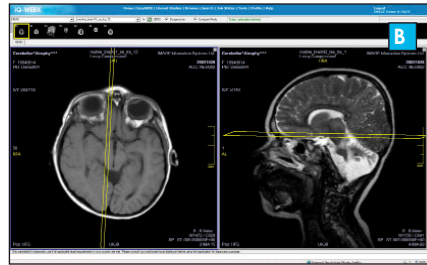
THE SOLUTION CAN BE SO SIMPLE

A iQ-WEBX can store and display virtually any type of grayscale and color, cine and still image, as well as reports.
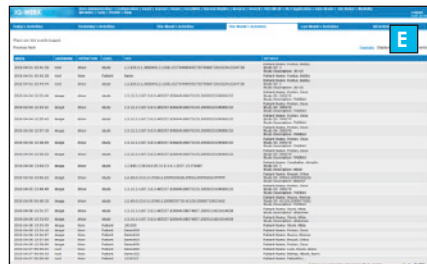
B The ActiveX viewing plug-in is automatically installed during the first call of images and offers viewing physicians easy-to-use interactive image processing tools with diagnostic quality.
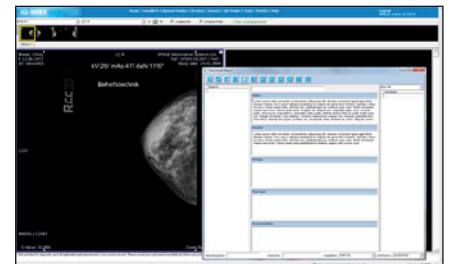
C The iQ-WEBX study browser provides easy and fast access to all studies for reading, requesting and referring physicians.

D Users may annotate images or studies with individual texts and keywords to create teaching cases within the PACS.
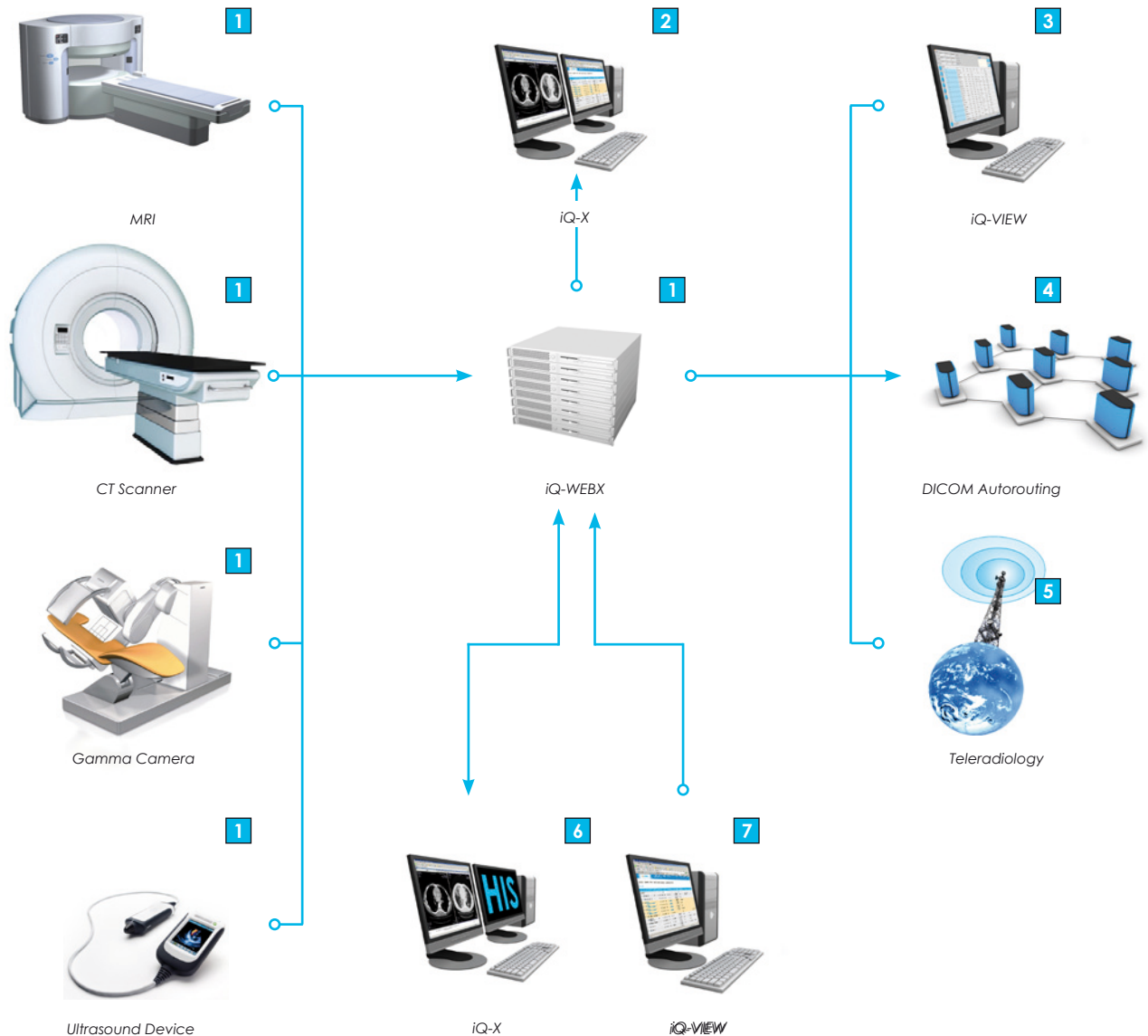
E iQ-WEBX logs any system activities in compliance with HIPAA regulations.

F The optional report manager provides the necessary tools for creating web-based DICOM structured reports.

1 MRI

1 CT Scanner

1 Gamma Camera

1 Ultrasound Device

2 iQ-X

1 iQ-WEBX

6 iQ-X

7 iQ-VIEW

3 iQ-VIEW

4 DICOM Autorouting

5 Teleradiology

1 iQ-WEBX is the core of an imaging network. Typically, it is connected to all imaging modalities, the RIS and reading stations.

2 The built-in ActiveX technology transfers any still or cine images in diagnostic quality to web viewer clients. The diagnostic web viewer called iQ-X may be seemlessly integrated with virtually any medical information system using WADO.

3 Reading stations from any manufacturer can be connected directly to iQ-WEBX using the DICOM standard.

4 The intelligent autorouting feature forwards studies based on predefined criteria and can prefetch previous studies for the same patient if required.

5 Using highly efficient built-in data compression and the optional report manager, economical teleradiology connections can be achieved.

6 Reports can be received directly from hospital information systems via the optional HL7 module and stored in iQ-WEBX.

7 Fully automatic patient reconciliation can be done with any hospital information system via HL7.

iQ-WEB FEATURES

SERVER
- Server instance monitoring
- Statistics
- Shared archive

COMMUNICATION
- DICOM query/retrieve
- DICOM PRINT client and DICOM WORKLIST client
- Ruled based auto forwarding of data sets
- HL7 interface (option)
- WADO (web access to DICOM objects) (option)
- Automatic patient reconciliation via HL7
- Email notification when new study has arrived
- Sending images as JPEG via email

WEB
- Unlimited number of users and concurrent users by default
- Access portal for referring physicians and patients (NEW!)*
- User-friendly web interface
- Display of all color/grayscale images
- Display of structured reports
- Web based query of external DICOM archives
- Web based transfer of images to DICOM destinations
- File attachments and notes to images or studies

IMPORT
- Web based import of any DICOM media

EXPORT
- DICOM export function

DATABASE
- High water/low water deletion of the oldest studies
- Automatic synchronization with other DICOM servers
- Configurable overflow management (high water/low water, study date, custom settings)
- Stores up to 500 million images

**DATA ACCESS RESTRICTIONS/
USER RIGHTS MANAGEMENT**
- 12 different privilege settings for each user/group
- User access control

SERVICE PACKAGE
- Software updates/upgrades optional

LANGUAGES
- English, French, German, Russian, Spanish, Japanese

CERTIFICATION
- CE 0482 and FDA 510 (k), JPAL in progress

LICENSING
- Available for 2, 5 or 10 DICOM nodes

*Subject to properly filled DICOM data

iQ-X WEB VIEWER (ACTIVEX)
- Viewing any kind of images and structured reports
- Thumbnail preview for easy selection of series via drag & drop (NEW!)
- Display of scout lines of cross sectional images (NEW!)
- Center/window, color remappings
- Stack mode/cine mode
- Measurements (distance, ROI, angle)
- Comparison of multiple studies
- Web-based creation of DICOM Structured Reports in ASCII (Latin-1 in preparation, sold separately) (NEW!)
- Background preload
- JPEG DICOM/2000 lossless/lossy support
- Post-receive image compression configurable for every source

LICENSING
- Unlimited number of WEB users
- Available for 2, 5, 10, 15, 20 or even for an unlimited number of DICOM nodes

HARDWARE & SOFTWARE REQUIREMENTS

	SERVER MINIMUM	SERVER (RECOMMENDED)	CLIENT MINIMUM	CLIENT (RECOMMENDED)
OS:	Windows XP SP 2 Server 2003 SP1	Server 2003 SP1 Server 2008	Virtually every OS with Internet Explorer 5	Windows 7 (32-bit) with Internet Explorer 7
CPU:	Pentium, 1 GHz	Pentium, 2 GHz	Pentium, 1 GHz	Pentium, 2 GHz
RAM:	512 MB	2-4 GB	64 MB	1 GB
HDD:	20 GB	RAID/NAS/SAN 120 GB ... 256 TB	5 GB	20 GB
Network:	10 Mbit/s	100 Mbit/s, 1 Gbit/s	128 kbit/s	100 Mbit/s
Graphics:			16-bit color, 8-bit gray	32-bit color, 8-bit gray
Display:			1024 x 768 pixel	1280 x 1024 pixel
Database:	MySQL 5.x	MySQL 5.1		
Peripherals:				Scroll mouse
Hardware:		Dell hardware		Dell hardware

OUR PRODUCTS FOR YOUR IMAGING NEEDS

iQ-SYSTEM PACS	The full featured, reliable and affordable PACS
iQ-NUC	Complete package for nuclear image processing
iQ-RIS	The smooth radiology information system
IMAGE DISPLAYS	Medical diagnostic displays
iQ-CR ACE	Efficiency in CR