



WEBX

DICOM SERVER FOR STORAGE,
TELERADIOLOGY AND IMAGE DISTRIBUTION

SYSTEM REQUIREMENTS

	SERVER MINIMUM	SERVER RECOM.	CLIENT MINIMUM	CLIENT RECOM.
OS:	Windows XP SP 2	Windows XP, Server 2003	Virtually every OS with Internet Explorer 5	Windows XP SP 2 with Internet Explorer 7
CPU:	Pentium 1 GHz	Pentium 2 GHz	Pentium 1 GHz	Pentium 2 GHz
RAM:	512 MB	1 GB	64 MB	1 GB
HDD:	20 GB	RAID/NAS/SAN 120 GB ... 256 TB	5 GB	20 GB
LAN/WAN:	10 Mbit	100 Mbit, 1 Gbit	128 Kbit	100 Mbit
Graphics:			16 bit color, 8 bit grey	32 bit color, 8 bit grey
Display:			1024 x 768 pixel	1280 x 1024 pixel
Peripherals:				Scrollmouse
Hardware:		Dell hardware		Dell hardware

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ONE FOR ALL

OUR SOLUTIONS FOR YOUR IMAGING NEEDS

- iQ-VIEW®** The radiology reading station
- iQ-VIEW® 3D** 3D post-processing workstation
- iQ-CAPTURE** Add-on hardware module for capturing images from analog video sources
- iQ-WEBX** PACS server for storage, teleradiology and image distribution
- iQ-HIS/RIS CLIENT** Simplifying the workflow
- iQ-PRINT** DICOM paper print server
- iQ-ROBOT** Automatic burning and labeling of patient CDs and DVDs
- iQ-ROUTER** Image compression for teleradiology and workflow management
- iQ-MAIL** Simple teleradiology using DICOM e-mail
- iQ-WORKLIST** DICOM worklist server optimizing your workflow
- iQ-NUC** Simple nuclear PACS integration
- iQ-RIS** The RIS that simplifies your work
- iQ-DISPLAYS** Medical diagnostic monitors
- iQ-CR ACE** Efficiency in CR
- DICOMReader** Read any DICOM CD into your PACS
- OrthoView™** Add-on module for orthopedic templating and trauma planning





iQ-WEBX combines A FAST DICOM ARCHIVE with a web-based viewing and a managing interface *IN ONE SYSTEM*

iQ-WEBX is a complete, easy-to-use and affordable solution for storage, viewing and distribution of any medical imaging studies and reports.

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

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

DICOM Server: This application enables the 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 through 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 an 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 the overview of all studies. Therefore, they



iQ-WEBX can store and display virtually all types of patient studies and reports.

The ActiveX viewing plug-in will be automatically installed during the first call of images and gives the viewing physician easy-to-use interactive image processing tools with diagnostic quality.

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 like: Measurements, stack mode, cine mode, comparison of studies. iQ-X allows the preloading of additional series in the background while concurrently viewing other images. 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 needs, iQ-WEBX is available in different configurations: It can be ordered with or without the iQ-X Web Viewer; in the second 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).

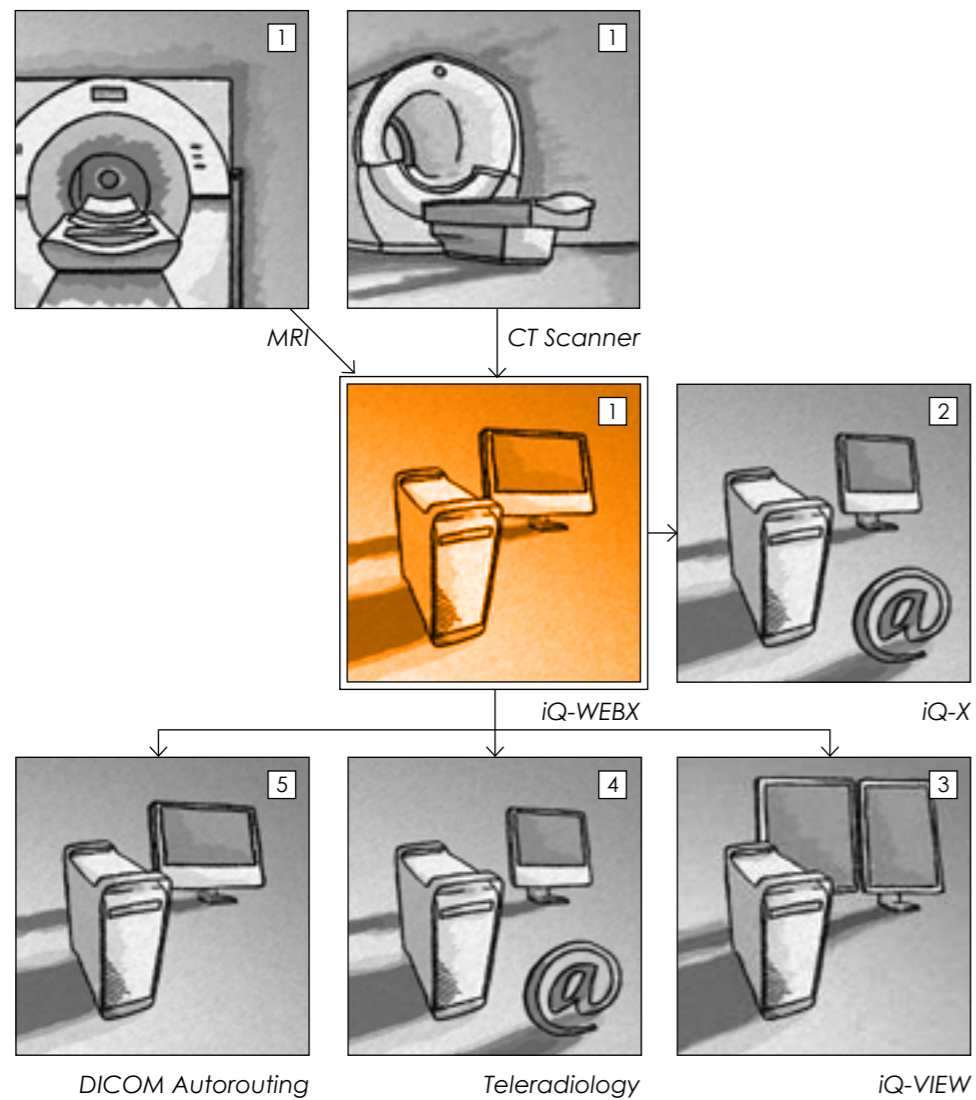
Web-Based Administration: Allows a proper configuration, adaptation and quality monitoring of the system.

Privacy: iQ-WEBX is a HIPAA compliant system. Referring physicians may log into the system to review only their own cases. The chief radiologist, of course, has 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 optionally with HL7 messages. Study data can be automatically corrected in an IHE compatible protocol to ensure consistent image data 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 being alerted automatically via email or SMS (*only possible by using a 3rd party mail2SMS gateway service with additional costs).



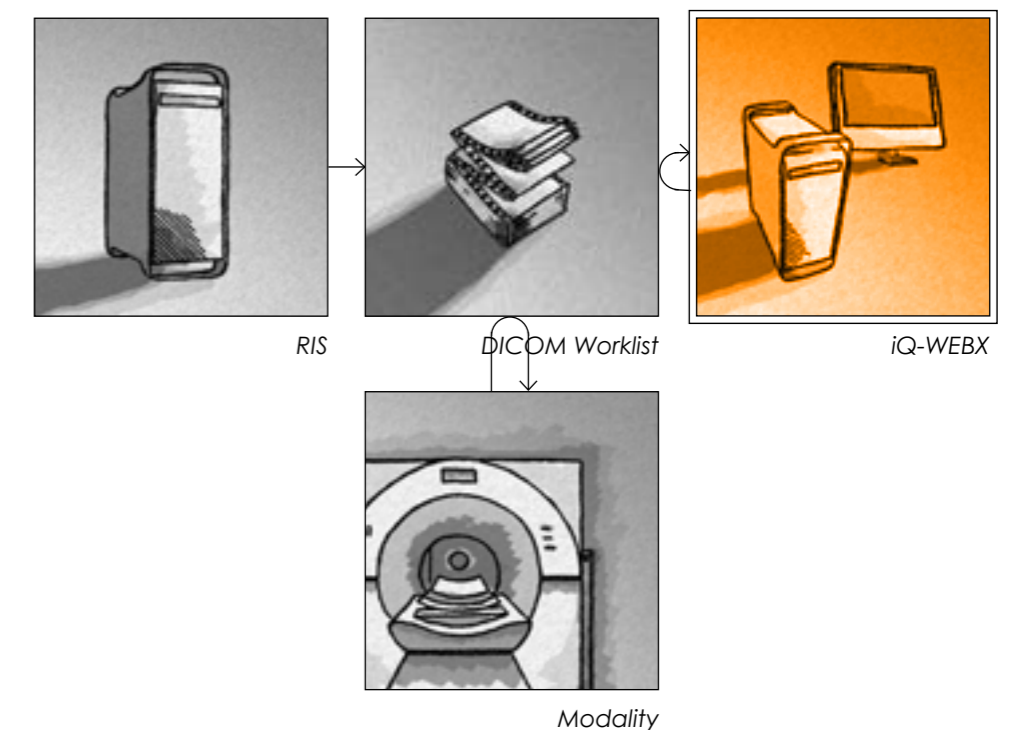
- 1 iQ-WEBX is the core of your imaging network. Typically it is connected to all imaging modalities, your RIS and reading stations.
- 2 The built-in ActiveX technology transfers radiological images in diagnostic quality to web viewer clients.
- 3 Reading stations from any manufacturer can be connected directly to iQ-WEBX using the DICOM standard.
- 4 Using high efficient built-in data compression, there is the opportunity to create economical teleradiology connections.
- 5 The intelligent autorouting feature forwards studies based on predefined criteria and can prefetch previous studies for the same patient if required.

In a digital imaging environment it is very important that each study can be properly identified, so that all studies for a patient can be retrieved consistently.

The Patient Reconciliation feature of iQ-WEBX can accept demographic data from your RIS or HIS to compare with stored studies. If both data (RIS and PACS) are identical, iQ-WEBX marks the study as "consistent".

iQ-WEBX can automatically adjust smaller errors e.g. in patient names like "Meller" -> "Miller". Major differences in data will be listed in the non-reconciled table that helps the PACS administrator to easily identify and correct inconsistent data.

Additionally, iQ-WEBX includes EasyWEB, a powerful tool which helps users to easily maintain the overview over the whole system. Its new graphical user environment allows to manage the whole image process, e.g. to filter, browse or to read studies just by using one single graphical user interface. The process is therefore made easier and more reliable than ever.



iQ-WEB FEATURES

SERVER

- Multiple parallel DICOM connections
- Server instance monitoring
- Statistics
- Shared archive
- Studies are marked as read after a DICOM Query

COMMUNICATION

- DICOM query/retrieve
- DICOM PRINT client and DICOM WORKLIST client
- Auto forward of data sets
- HL7 interface (option)
- Automatic patient reconciliation
- Email notification when new study has arrived
- Sending images as JPEG via email

WEB

- Easy-to-use design of the web interface
- Coherent overview of studies with search and filter possibilities using EasyWEB
- Automatic browser logout
- Unlimited number of users and concurrent users
- Display of all color/grayscale images
- Display of structured reports
- Query of external DICOM archives by web interface
- Transfer of images by web to DICOM destinations
- File attachments to images or studies

IMPORT

- Import of any DICOMDIR media
- Directory import of DICOM data

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)

DATA ACCESS RESTRICTIONS/ USER RIGHTS MANAGEMENT

- Admin user
- 12 different privilege settings for each user/group
- User access control

SERVICE PACKAGE

- Software updates/upgrades optional

LANGUAGES

- English, French, German, Russian, Spanish

CERTIFICATION

- CE 0482 and FDA 510 (k)

LICENSING

- Available for 2, 5 or 10 DICOM nodes

iQ-WEBX FEATURES

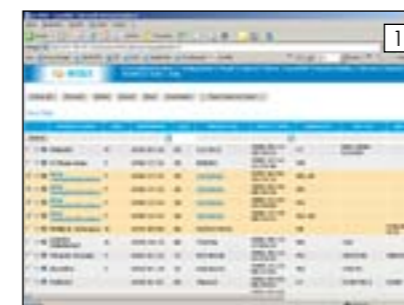
IN ADDITION TO iQ-WEB FEATURES

iQ-X WEB VIEWER (ACTIVEX)

- iQ-X Web viewer (Activex)
- Viewing any kind of images and structured reports
- Center/window
- Comparison of multiple studies
- Stack mode/cine mode
- Measurements (distance, ROI, angle)
- Color remapping
- 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, 20 or even for an unlimited number of DICOM nodes



1 The new study browser of iQ-WEBX gives reading physicians an easy and fast access to all studies.



2 Users may annotate images or studies with individual texts and keywords to create teaching cases within the PACS.



3 iQ-WEBX logs any action of the system in compliance with HIPAA regulations.

