



iQ IMAGE

a PARATUS Medical Imaging Company



iQ-WEB

Version 8.0

All-inclusive PACS

for Archiving, Teleradiology and Image Sharing

iQ-WEB 8.0 **1** represents the next generation of medical image communication. This development of our tried-and-tested web PACS solution sets a new standard for image distribution, security, and user-friendliness in radiology. Consisting of several applications all in one package, iQ-WEB provides a comprehensive, easy-to-use and cost-effective solution for storing, distributing, viewing and sharing medical imaging studies and reports.

iQ-SYSTEM PACS consists of four components.

1 iQ-WEB is a component of iQ-SYSTEM PACS - a picture archiving and communication system (PACS) for the management, retention, routing, analysis and review of medical images stored in proper DICOM format and a system of interrelated software components.

The other components are iQ-VIEW, iQ-4VIEW and iQ-ROUTER. Every component in this system is responsible for performing its specific tasks. The components can be used all together and/or in various combinations. The full scope of functionality of iQ-SYSTEM PACS is reached when integrating all components into the imaging network.



Fewer errors, less effort, and greater efficiency. Improved data quality, modern user guidance, access from anywhere, and numerous optimizations significantly reduce support costs.

iQ-WEB in Detail

What's included?



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.



DICOM SERVER

This server component provides DICOM communication between imaging modalities and the archive server. Within the iQ-WEB system, it is responsible for study storage, query/retrieve, forwarding, printing, and the import and export of all DICOM object types.

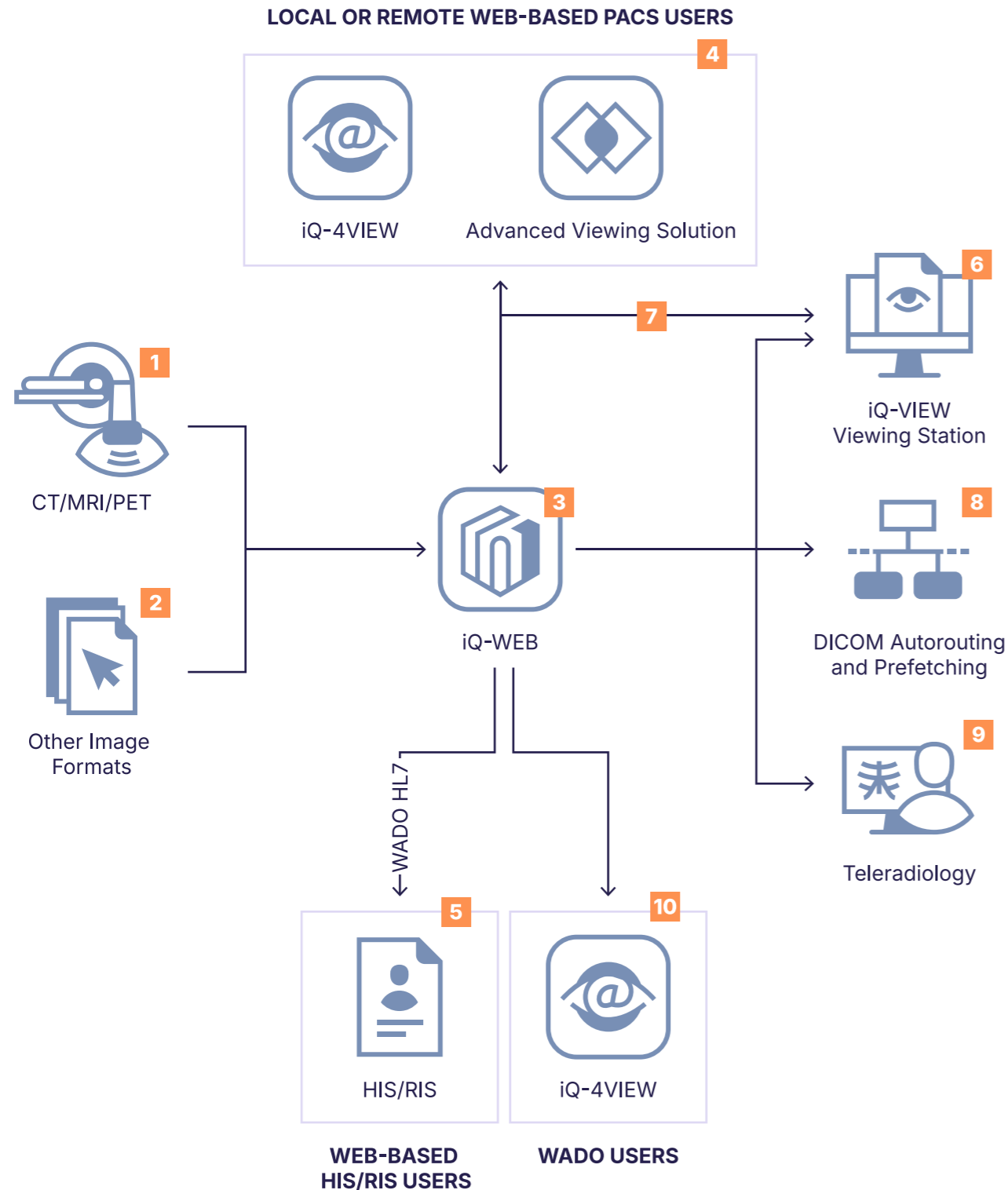


VENDOR NEUTRAL ARCHIVE (VNA)

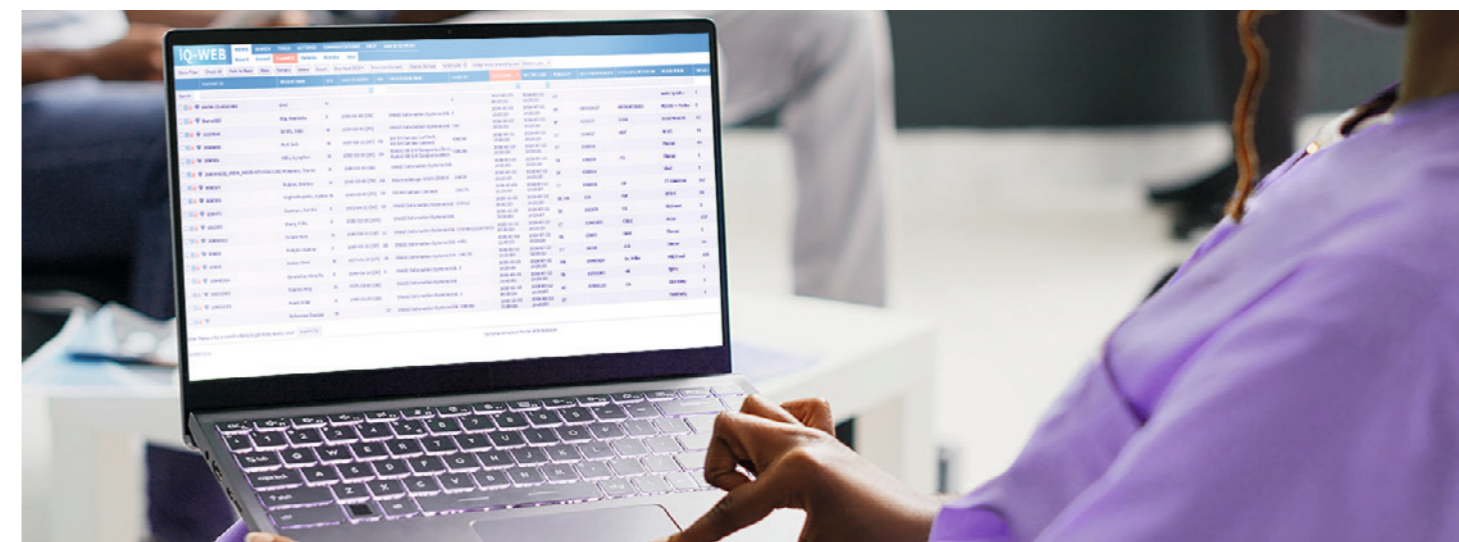
iQ-WEB is a vendor-neutral archive (VNA) for centralized storage of medical images and objects. A single system can store up to 500 million images or objects and supports hierarchical archiving for short- and long-term storage. When combined with iQ-ROUTER, workflows can be flexibly configured. A second iQ-WEB server can be automatically synchronized for disaster recovery.

iQ-WEB natively supports DICOM images, DICOM-encapsulated PDF and JPEG files, and image data from endoscopy, microscopy, pathology, and more.

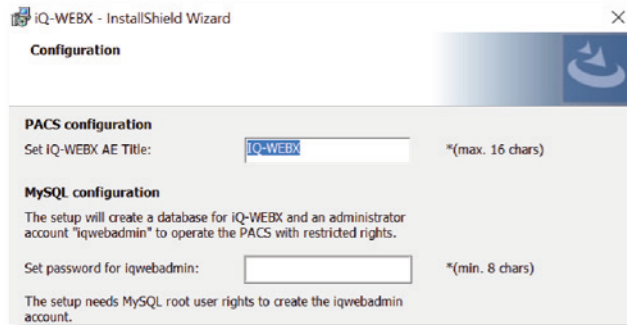
Efficient Workflow with iQ-WEB



- 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 upload and DICOM conversion via iQ-WEB UPLOADER of PDF and JPEG as well as native storage of many other non DICOM formats, such as endoscopy video, microscopy images and more.
- 3 As a component of the 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 Optional viewers, such as iQ-4VIEW and our Advanced Viewing Solution, allow web-based local or remote PACS users to view medical images in diagnostic quality.
- 5 iQ-4VIEW and our Advanced Viewing Solution can be seamlessly integrated with virtually any medical information system using the optional WADO function ensuring direct image access from e.g. HIS or RIS.
- 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 viewer. Reports obtained from hospital information systems can be received via the optional iQ-WEB 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 users fast access to images and return of reports.
- 10 With the iQ-4VIEW diagnostic viewer, WADO users can access radiological examinations via mobile devices – quickly, easily, and from anywhere.

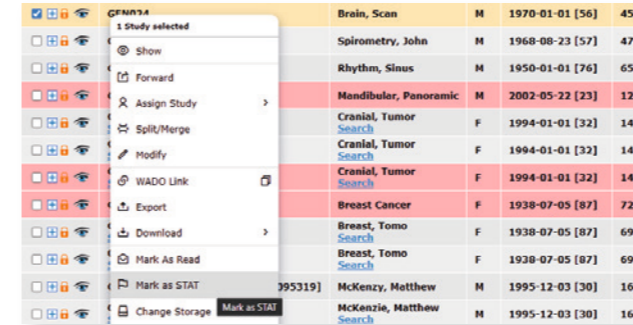


iQ-WEB Workflow Steps for Efficient Use



INSTALLATION/CONFIGURATION

- iQ-WEB is supplied with an installation file for easy and independent installation. In addition, the option for convenient web-based configuration helps users save time and money.



STAT PRIORITY

- Urgent studies can be marked as STAT directly in iQ-WEB for clear visual prioritization. **NEW**
- Critical cases are highlighted instantly, reducing the risk of oversight.
- The STAT status is automatically reset after report completion.



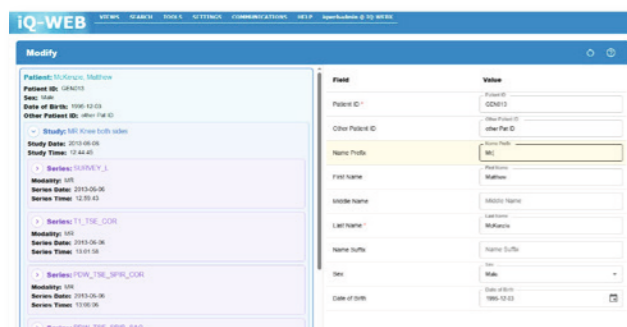
USER AUTHENTICATION

- Newly designed login process with integrated two-factor authentication (2FA) that is secure yet user-friendly, featuring a clear and intuitive authentication flow. **NEW**
- User rights can be automatically synchronized from Active Directory to support Single Sign-On (SSO).
- Two-factor authentication ensures HIPAA- and GDPR-compliant data sharing.



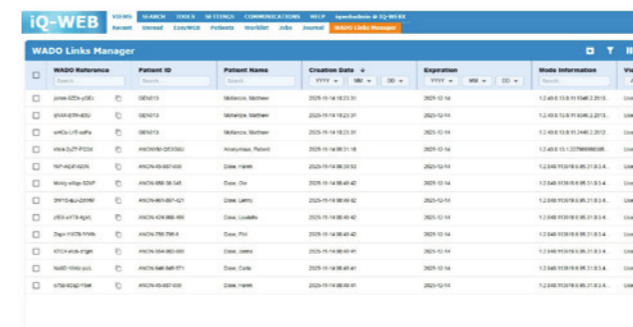
DATA SHARING

- Short WADO links simplify access and reduce errors compared to long URLs.
- Links can be shared directly or as QR codes for patients and referrers.
- Access is provided via a mobile-friendly entry page using a simple code (e.g., xxxx-xxxx-xxxx). **NEW**



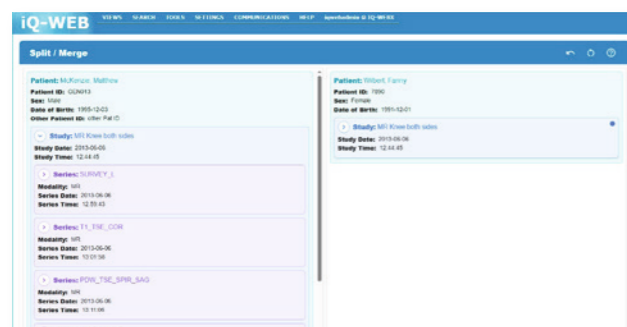
PATIENT MODIFICATION

- The EasyWEB page provides a customizable and filterable overview of all data.
- Multiple studies can be assigned directly to a user.
- With the Modify tool, DICOM metadata (patient, study, and series attributes) can be corrected in an audit-proof manner before the data is archived. **NEW**



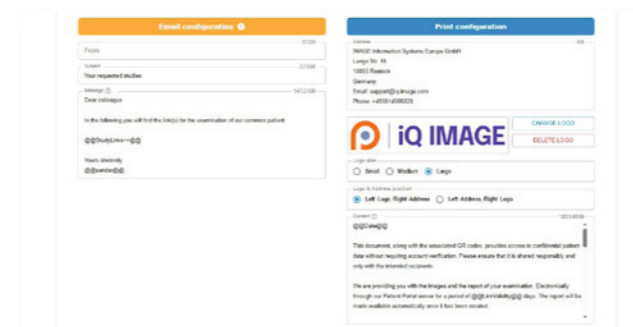
DETAILED INFORMATION

- Log files provide information about shared studies (WADO links, e-mail delivery).
- Now supplemented by the WADO Link Manager for central administration, overview of creators, expiration dates, and viewers. Links can be deactivated immediately. **NEW**



STUDY ASSIGNMENT

- iQ-WEB offers patient identification via the institutional and the national ID simultaneously (USP).
- Clean patient data is additionally supported by split/merge; incorrectly mixed studies or series are automatically separated or merged. **NEW**



EASY EXPORT

- Table contents can be exported as CSV files for statistics or further analysis.
- Reports and QR codes can now be printed via the re-designed printout page with optional branding. **NEW**



Workflow and Technical Features* of iQ-WEB



SERVER

- Server instance monitoring
- Advanced statistical functions (e.g., studies received from DICOM nodes or facilities per period)
- Automatic patient reconciliation via worklist
- Complete 64-bit architecture for high-performance scalability
- Updated technological basis: MySQL 8.4.8, Apache 2.4, and PHP 8.4 **NEW**



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) for integration of any medical information systems (optional)
- Short WADO links & QR codes **NEW**
- Email notification when new study has arrived



IMPORT/EXPORT

- Web-based import of any DICOM media
- Web-based burning of patient CDs/DVDs (using optional iQ-LITE viewer)
- DICOM export function
- CSV export of EasyWEB page content for statistical analysis
- Audit-proof DICOM metadata correction via Modify tool **NEW**



DATABASE

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

* Detailed information on iQ-WEB's system requirements is available in the iQ-SYSTEM PACS Hardware Purchasing Guide or the iQ-WEB Administration Guide, various AI options available by request

** Depending on hardware and database system used



INTERNET SECURITY

- Effective protection against cyber attacks by
 1. Improved email functionality (SSL/TLS)
 2. Latest web server components
 3. MySQL for HIPAA and GDPR compliance
 4. Login & 2FA flow for secure, modern user guidance



WEB

- Unlimited number of concurrent users by default
- Can open studies in iQ-VIEW from EasyWEB page
- Display structured reports as well as color and grayscale images
- Web-based query of external DICOM archives
- Web-based transfer of images to DICOM destinations
- Attaching files/notes to images or studies
- Web-based DICOM MPEG video management
- Playback of DICOM videos with or without sound
- Additional coercion rules triggered by defined DICOM tags (e.g., name of facility, involved physician, modality)
- Local and global patient IDs can be used simultaneously
- Improved assignment of multiple studies to a single report



DATA AND USER MANAGEMENT & SECURITY

- Synchronization of user login information via LDAP
- One login for multiple applications
- Different permissions per user/group
- User access control (UAC)
- Two-factor authentication for compliance with GDPR and FDA requirements
- Flexible login with username or email
- Improved user rights management
- Password complexity rules
- User lockout after more than 5 failed login attempts
- Group administration rights



COMPATIBILITY

- iQ-WEB 8.0 compatible with:
 1. iQ-4VIEW 2.4
 2. Various AI options available by request
- Location-independent access via iQ-4VIEW, radiological diagnosis anywhere



LANGUAGE

- English, German, Spanish, French, Russian, Polish, Ukrainian, Albanian, Chinese (included as standard), other languages on request



LICENSE

- Available for 2, 3, 5, 10, 15, 20, 30, 40, or an unlimited number of DICOM nodes



CERTIFICATION

- iQ-SYSTEM PACS (including iQ-WEB) is registered in accordance with:
 - MDR(EU) 2017/745, class IIb (v1; iQ-WEB UDI-DI (EEA): +B403IQWEB800\$)
 - FDA 510(k), class II (version 1.10; UDI-DI: +B403IQS11004)

Feature Highlights of iQ-WEB

WEB-BASED ADMINISTRATION

Configuration, maintenance, and quality control can be carried out via the web browser. Administrators can centrally monitor WADO links, approvals, and user rights. The modern platform technology ensures stable and easy integration.

PATIENT RECONCILIATION

All studies are validated via DICOM worklists for a consistent archive structure. Merged studies can be manually corrected with split/merge, and the modify tool ensures audit-proof patient data before archiving.

EASY SEARCH FEATURES

EasyWEB allows physicians to keep track of all studies at any time. The quick search feature is supported by numerous filters. Images, structured reports or PDFs can be attached directly to a study and shared.

WEB-BASED DICOM PRINT

Images can be output to local or external DICOM printers. The redesigned printout page shows more legible printouts and QR codes, which can also be branded if required.

VERY HIGH LEVEL OF PRIVACY

iQ-WEB complies with all European data protection guidelines. Referring physicians can only see their own cases, while chief radiologists can view the entire database. Access is controlled via the WADO Link Manager, combined with two-factor authentication for full security.

EMAIL ALERT NOTIFICATION

Upon the arrival of new studies or reports, automatic notifications are sent via email or SMS. Short WADO links enable direct, error-free access to images on desktops or smartphones. This is supplemented by practical QR codes.

iQ-WEB Add-ons to choose from

There are several add-ons available for iQ-WEB which serve different medical image viewing and sharing needs.*



iQ-4VIEW

Zero-footprint diagnostic reading in any browser, operating system, or device, with full WADO access and efficiently compressed data for fast teleradiology and mobile use.



ADVANCED VIEWING SOLUTION**

Diagnostic zero-footprint viewer for web-based PET/CT image fusion with full WADO access.



iQ-WEB UPLOADER

Web-based feature for transferring medical images, photos, and documents (JPEG/PDF) from any computer or smart device to PACS, generating and storing them as DICOM data. Optimized for mobile uploads, external CDs/USBs, and large files (>4 GB) for reliable source integration.



iQ-WEB REPORT CONVERTER

Automatically converts and transmits DICOM SR and HL7 reports between HIS/RIS and iQ-WEB, embedding short links and QR codes in PDFs for instant access by patients and referring physicians.



iQ-SR2PDF CONVERTER

Automatically copies DICOM SR into letterheads, inserts physician signatures, and generates PDFs with embedded short links and QR codes for instant access by patients and referring physicians.

* Detailed information on the individual iQ-WEB add-ons and options (iQ-4VIEW, Advanced Viewing Solution, iQ-WEB REPORT CONVERTER, iQ-DASHBOARD) is available on our website for download (Download Center).
** Must not be sold in the European Union.



Included

WEB-BASED REPORTING

iQ-4VIEW's integrated report editor allows physicians to create structured DICOM reports online from any location, with mobile-friendly use and fast display of short WADO links directly in the interface.

iQ-DASHBOARD

Business intelligence solution giving system administrators and radiology directors a quick overview of iQ-WEB PACS statistics.

Integration Options

WADO

With the optional WADO interface, medical images and reports can be shared with patients, referring physicians, or external reviewers via printout, WhatsApp, or email. Short links and QR codes provide easy access on all devices, with automatic expiration and enhanced security.

WADO HL7

Using the WADO HL7 interface, iQ-WEB connects seamlessly to nearly any HIS, EMR, or practice management system, providing direct access to images and reports without additional login. Supports short WADO links with easy management via the WADO Link Manager, including expiration dates, viewer selection, and central deactivation.

WADO Features at a Glance



GENERAL

- Completely incorporated into the iQ WEB administration interface
- Direct access to a viewer for evaluating studies and images
- Return to a specified page after opening a WADO link using the back button in the iQ-4VIEW viewer
- Temporary or permanent external diagnostic access to selected studies via short WADO links **NEW**
- Can be integrated into any HIS/EMR via HL7 ORU or MDM messages



ACCESS

- Single Sign-On with predefined login details, no double login required
- Customizable link validity period, e.g., PACS access for 4 weeks
- Creation of WADO links as QR codes for quick access by patients, referring physicians, or colleagues
- Direct sharing of links via email
- Short links are mobile-friendly and error-resistant, with expiration dates and viewer permissions automatically managed through the WADO Link Manager **NEW**



SUPPORTED CALLS

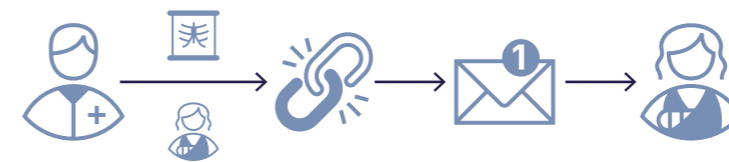
- Listing of studies/images by: patient ID, global patient ID, case number, study/series instance UID, patient name, date of birth
- Access to patients' studies via BDT/GDT files possible
- Viewer options: iQ-4VIEW, iQ-VIEW, simple web view in JPEG quality, browser-independent opening of iQ-4VIEW
- HL7 support on request
 1. Inbound ORM message orders
 2. Outbound ORU messages (typically with embedded WADO URL)



SECURITY

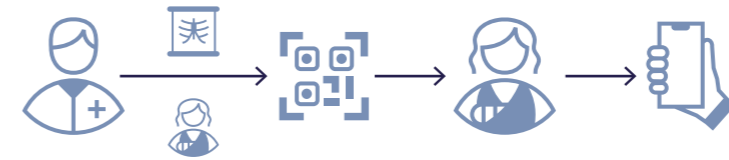
- High security by optional encrypted WADO IDs
- Compliant with US and European data protection laws and regulations
- GDPR-compliant logging of shared WADO links (user, recipient, patient, studies, date/time)
- Two-factor authentication (recommended for sharing WADO links via email)

Easy Web Access to DICOM Objects (WADO)



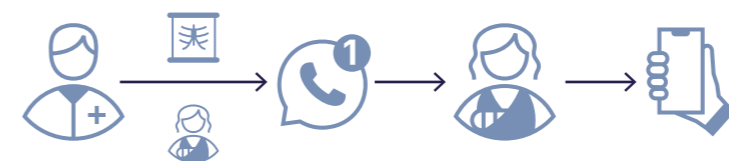
EMAIL BASED WADO

1. User selects patient study/ies to share.
2. User creates WADO link(s) and forwards it/ them to the recipient e.g. via email.
3. Recipient enters date of birth (DOB) to access the studies.



QR CODE BASED WADO

1. User selects patient study/ies and prints QR code.
2. Typically, the QR code is given to the patient.
3. The patient can decide with whom to share imaging and results via any tablet, smartphone or QR code scanner.



WHATSAPP BASED WADO

1. User selects patient study/ies and copies the created WADO link(s) to WhatsApp.
2. Recipient clicks on link to open the studies securely.



Connecting reports.
Simplifying processes.
Ensuring important information
reaches where it is
needed more quickly.

iQ-WEB REPORT CONVERTER (optional)

The optional iQ-WEB REPORT CONVERTER add-on uses a state-of-the-art algorithm to automatically convert and transfer structured DICOM reports and HL7 text reports between medical information systems and iQ-WEB.



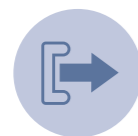
GENERAL

- Compatible with virtually any HL7 compliant EMR, HIS, RIS or practice management system
- Supports Latin-1 ext. A character set
- Automatic logging of report receipt and conversion (user, recipient, timestamp, study) for GDPR-compliant traceability **NEW**



INPUT

- Receives HL7 ORU^R01 messages
- Supports one report per message
- PACS query of an study for incoming reports
- Query of incoming structured DICOM reports

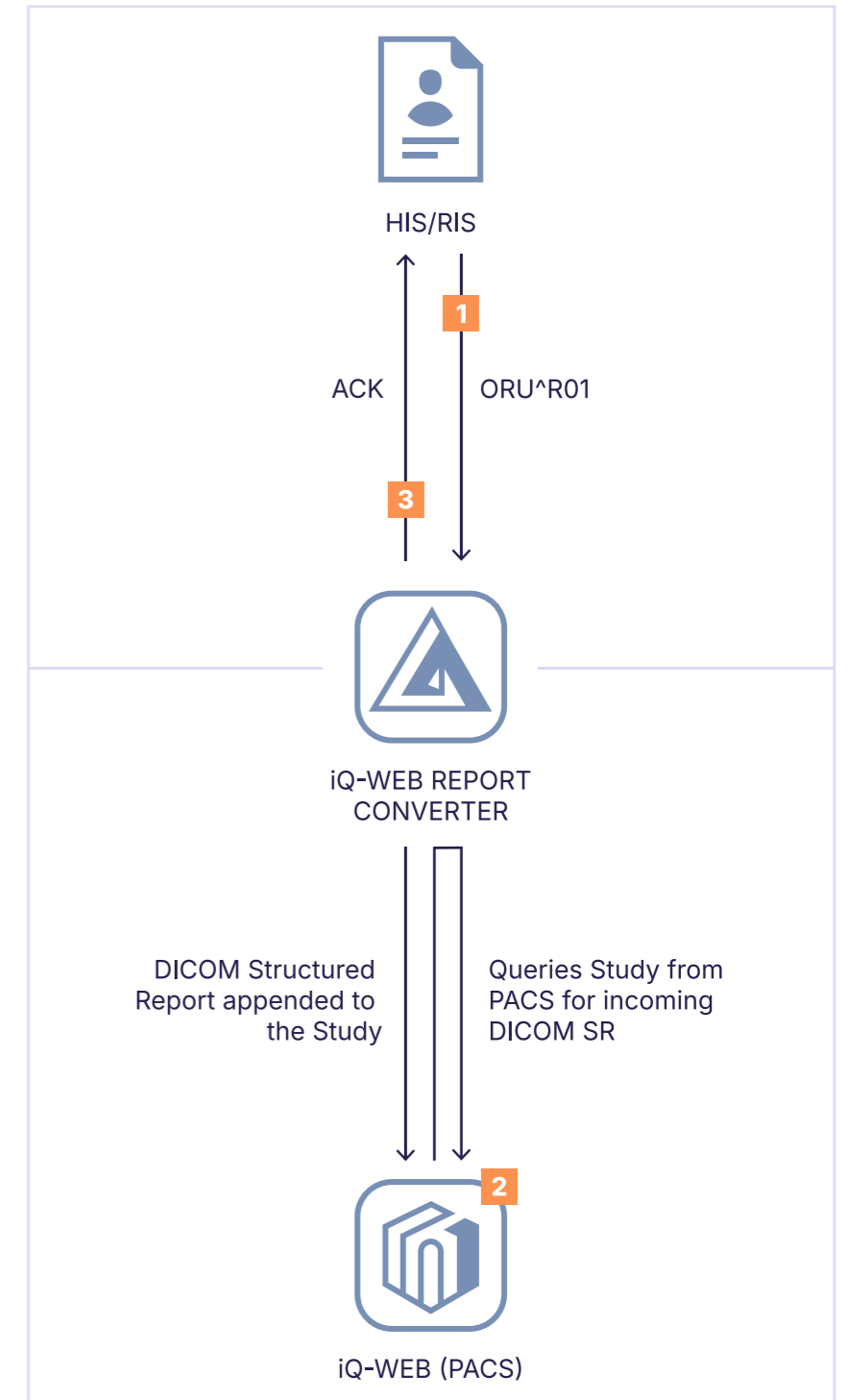


OUTPUT

- Sends DICOM Structured Report to iQ-WEB (PACS)
- Sends HL7 ACK messages to confirm receipt of a report
- Sends HL7 ORU^R01 to any HL7-compliant information system
- Can send short WADO links or QR codes along with report for mobile & secure access


Example Workflow HL7^ORU to DICOM SR

- 1 A medical report is created in an HIS/RIS/EMR and sent to iQ-WEB REPORT CONVERTER.
- 2 The converter finds the corresponding study in iQ-WEB PACS, converts the report into a DICOM structured report, attaches it to the study, and logs receipt and conversion (user, recipient, timestamp, study) for GDPR-compliant traceability. Optionally, short WADO links or QR codes can be generated for secure mobile access.
- 3 A confirmation message is returned to acknowledge report receipt.



Sales Partner Details



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