

VET

WEBX

WEB-BASED VETERINARY PACS

TOP DOG IN VETERINARY PACS



VERSION 6.3.8

VET-WEBX - THE PERFECT TOOL FOR VETERINARY FREEDOM

VET-WEBX is a PACS especially designed for veterinarians, which conveniently manages imaging, archiving and distributing with a web-based interface.

As a complete solution, the VET-WEBX PACS consists of several applications in only 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: VET-WEBX can store up to 500 million images in a single database. Hierarchical archive support for short and long term archives is included, and when used in combination with iQ-ROUTER PRO, it is even more flexible and customizable. A second VET-WEBX server can be automatically synchronized in order to permanently ensure up-to-date backup data.

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

Thanks to the innovative feature EasyWEB, vets maintain an overview of all studies. They can easily search and filter the database individually to quickly find the required studies. Images and documents (PDF or Structured Reports) can be easily attached to a study and shared with referring vets or colleagues.

VET-X Diagnostic 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.

VET-X further allows additional series to be preloaded in the background while images are being viewed. The graphical user interface is based on the leading veterinary DICOM viewer VET-VIEW.



Special VET-WEBX Features:

Licensing: Depending on the user's needs, VET-WEBX is available in different configurations. It can be ordered with or without the VET-X web viewer; in the latter case, it is labeled VET-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, even without having access to the server machine.

Web-Based Reporting: With the optional VET-X reporting module and Internet Explorer, vets can create DICOM Structured Reports online from anywhere in the world.

Highest Level of Privacy: VET-WEBX is even HIPAA compliant. Referring vets may log in to the system to review their own cases while the veterinary

radiologist can be granted access to the entire patient database. It is possible to share imaging data among veterinarians, in compliance with strict privacy regulations.

Displaying Veterinary Information: All information veterinarians may need is provided together with the images. Thus, the study tables contain information about the owner, species, breed and neutered status. The customizable text overlay of VET-X allows the display of any veterinary information available, e.g. stud book information, veterinary body parts and view positions.

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

Email Alert Notification: Once a new study or report is ready for viewing, the referring vet is automatically alerted via email or text message including a link to the image (by using a 3rd party mail2SMS gateway service with additional costs).

Zero-Footprint Mobile Viewer:

VET-WEB2GO is a VET-WEBX module for web-based viewing of radiology images on any tablet or smart phone. It is free of charge for all VET-WEBX licenses supporting 10 or more AE titles.

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

WADO Interface: VET-WEB can be smoothly integrated with virtually any veterinary information system using the optional module VET-WEBX WADO or VET-WEBX WADO HL7, respectively.

THE BEST FOR VETS



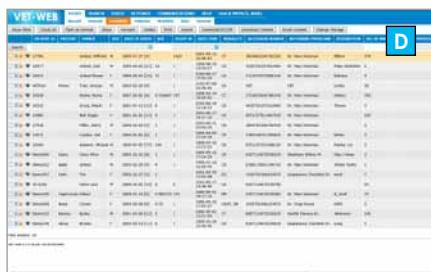
VET-WEBX SCREENSHOTS



A Referring physicians or owners may log into VET-WEBX to view the imaging case history of the respective animals.

B VET-WEBX can store and display virtually any type of grayscale and color image, as well as structured reports and encapsulated PDF.

C The ActiveX viewing plug-in, VET-X, is installed during the first call of images and offers viewing vets easy-to-use interactive image processing tools with diagnostic quality.



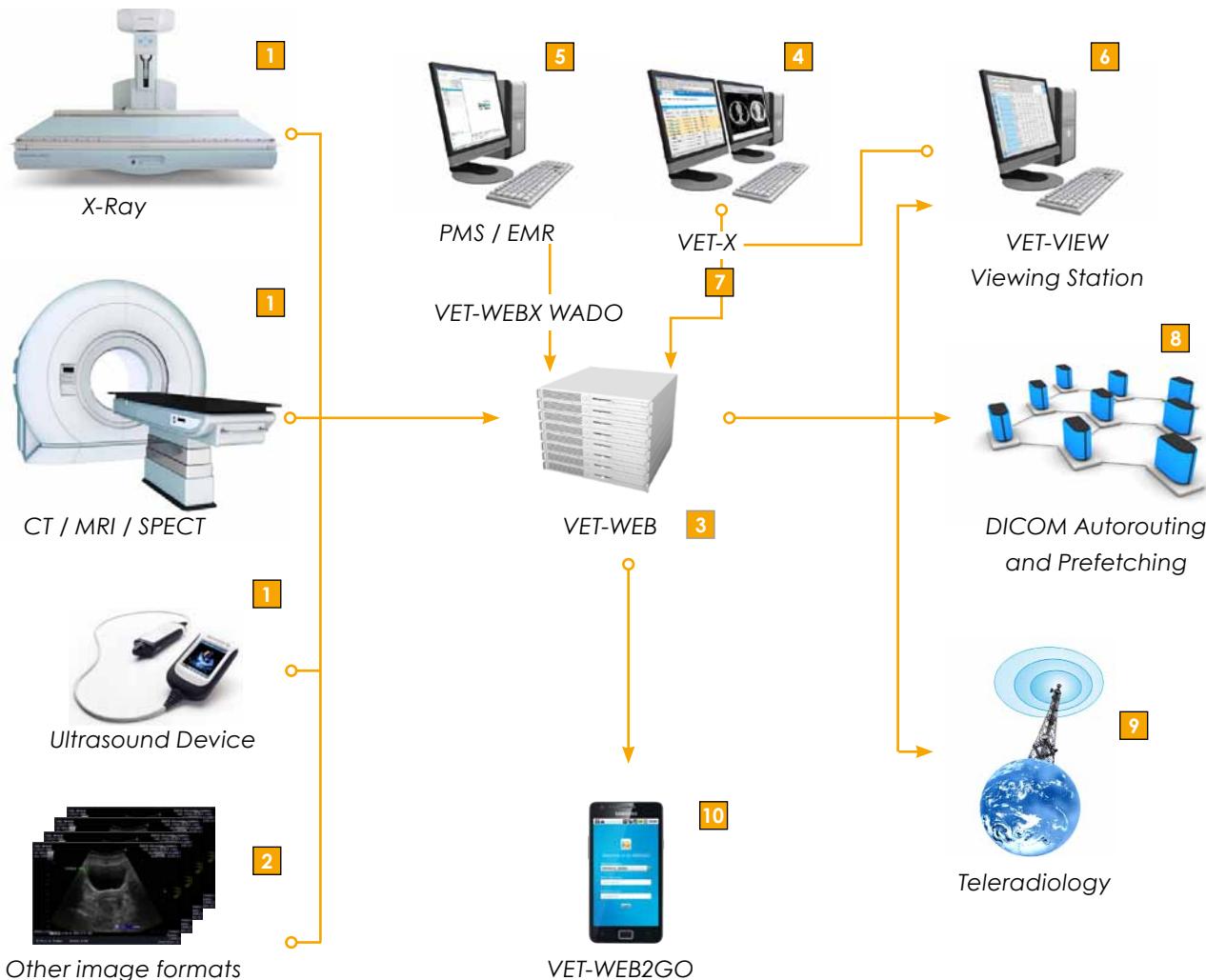
D The VET-WEBX EasyWEB page provides easy and fast access to all studies for reading, requesting and referring veterinarians.

E Users may annotate images or studies with individual texts, keywords or attached documents to create teaching cases within the PACS.

F The optional VET-X report manager provides the necessary tools for a web-based creation of DICOM structured reports.



VET-WEBX WORKFLOW



1 VET-WEB is typically connected to all DICOM modalities in an imaging network, such as X-Ray, CT/ MRI/SPECT, Ultrasound, cameras, microscopes etc.

2 VET-WEB supports virtually any image format which are specified in the respective DICOM Conformance Statement.

3 As vendor neutral archiving system, VET-WEB represents the core of an imaging network offering advanced features like automatic patient reconciliation achieved with any hospital information system via worklist or HL7.

4 The built-in viewer VET-X allows viewing of medical images in diagnostic quality by means of web technologies like ActiveX.

5 VET-X can be smoothly integrated with virtually any medical information system using the optional module VET-WEBX WADO or VET-WEBX WADO HL7, respectively.

6 Reading stations, such as VET-VIEW, can be connected directly to VET-WEBX using DICOM communication.

7 Structured Reports can be created using VET-VIEW or the integrated VET-X viewer.

8 The intelligent autorouting feature forwards studies based on predefined criteria to any DICOM compliant station. Even prefetching previous studies for the same patient is handled by VET-WEB, if required.

9 Efficient teleradiology connections are achieved by built-in data compression algorithms, and the reporting option included in the VET-X viewer.

10 The optional VET-WEB2GO module facilitates radiology viewing for owners via mobile devices for fast and easy access of medical images from anywhere.

VET-WEB2GO

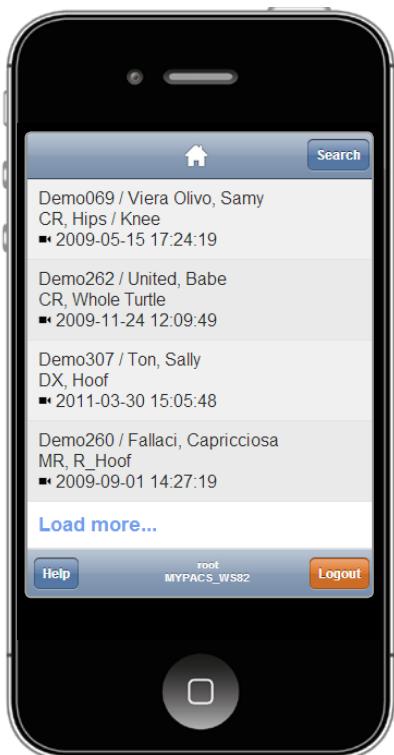
VET-WEB2GO is a VET-WEBX module for web-based viewing of radiology images on iOS and Android based portable, handheld devices.

VET-WEB2GO represents an excellent solution for clinical reference for referring veterinarians who need to see images at their fingertips without being tied to a workstation. It is also ideal for remote and subspecialty consultation. Access to radiology images is quick, easy and secure without the need to run an installer.

For users with VET-WEBX10 or higher, VET-WEB2GO is automatically included.



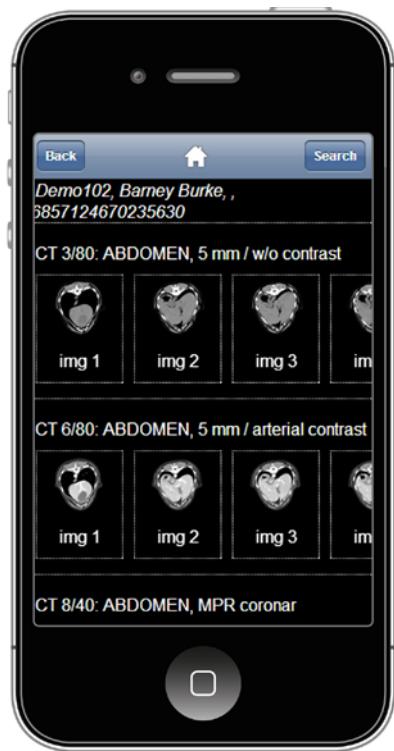
VET-WEB2GO SCREENSHOTS



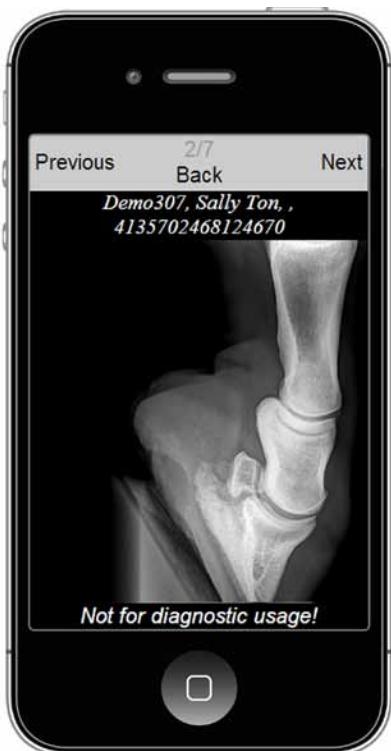
A The studies overview page displays the studies sorted by owner's name. Read studies are displayed in regular font, unread studies in bold.



B The search page allows specifying criteria to find one or a list of studies in the database.



C The series overview page provides easy access to selected images.



D The images page displays an image in full screen mode, allowing zoom / pan.

C

VET-WEB FEATURES

SERVER

- Server instance monitoring
- Statistics
- Automatic patient reconciliation via worklist or HL7
- Post-receive image compression configurable for every source (for VET-X usage)

COMMUNICATION

- DICOM Query/Retrieve
- DICOM PRINT client and DICOM WORKLIST client
- Rule-based auto-forwarding of data sets
- Restricted forwarding to user-selected AE titles
- Enhanced auto-routing due to advanced routing criteria logic (NEW!)
- HL7 interface (optional)
- WADO (web access to DICOM objects) (optional)
- Email notification when new study has arrived
- Sending JPEG images via email

WEB

- Unlimited number of users and concurrent users by default
- Access portal for referring vets and owners*
- User-friendly web interface optimized for easy administration and maintenance (NEW!)
- Automatic browser detection in the EasyWEB page
- Opening studies in VET-VIEW from EasyWEB page
- Additional filter options in EasyWEB (e.g. Study Received Date/Time) and auto-refresh when new studies arrive (NEW!)
- Display of all color/grayscale images and 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/EXPORT

- Web-based import of any DICOM media
- DICOM export function

DATABASE

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

*Subject to properly filled DICOM data

** Depending on hardware and database system used

VET-WEB FEATURES

DATA AND USER MANAGEMENT & SECURITY

- 12 different privilege settings for each user/group
 - User access control
 - Customizable user rights management (e.g. user access filter, user assignment based on AE title) (NEW!)
 - Definition of password complexity rules
 - User blocking after more than 5 failed login attempts (2 hours) (NEW!)
- English, German, Russian, Spanish (included by default), other languages upon request

LANGUAGE

- Available for 2, 5 or 10 DICOM nodes

LICENSING



VET-WEBX FEATURES

IN ADDITION TO VET-WEB FEATURES

- Viewing any kind of images, Structured reports and Encapsulated PDFs*
- Thumbnail preview for easy selection of series via drag & drop
- Display of scoutlines of cross-sectional images
- Center/window, color remappings
- Stack mode/cine mode
- Measurements (distance, angle, ROI)
- Comparison of multiple studies
- Easy synchronization of series, e.g. for comparing CT scans (NEW!)
- Web-based creation of DICOM Structured Reports with Latin-1 support (NEW!)
- Background preload
- JPEG / JPEG LS (NEW!) / JPEG 2000 support (lossless/lossy)
- Unlimited number of WEB users
- Available for 2, 5, 10, 15, 20 or even for an unlimited number of DICOM nodes
- VET-X is available with or without report manager

VET-WEB2GO FEATURES (NEW!)

WEB VIEWER

- Web-based visualization of medical images
- Display of Structured Reports and Encapsulated PDF documents
- Overview of multiple studies at thumbnail level
- Quick and easy selection of series via tapping on image
- Zoom/pan
- User-friendly search and navigation tools
- Optimized user privilege handling

LICENSING

- Unlimited number of users
- Included at no extra charge for VET-WEBX10 and higher versions**

* PDF reader is required

**Additional charge for all other VET-WEBX versions

SYSTEM RECOMMENDATIONS PACS SERVER (OVERVIEW)

Criteria for decision process: total number of studies to be stored/managed and maximum concurrent number of web users in the real world

Users = total number of connected DICOM workstations (not modalities) + maximum number of used (active) concurrent web users (not the number of purchased floating users)

| STUDIES | USERS 5 | 10 | 25 | 50 |
|------------|------------|------------|------------|------------|
| <50.000 | S | S | M | L |
| <200.000 | S | M | L | L |
| <1.000.000 | M | M | L | L |
| >1.000.000 | On request | On request | On request | On request |

HARDWARE & SOFTWARE REQUIREMENTS

| | SERVER SMALL | SERVER MEDIUM | SERVER LARGE |
|------------------|--|--|--|
| OS: | Windows® XP Pro 32bit with SP3, Windows® 7 Pro 32bit/64bit with SP1, Windows® 8(1) Pro 32bit/64bit, Windows® Server 2008 R2, Windows® Server 2012 (R2) | Windows® Server 2008 R2, Windows® Server 2012 (R2) | Windows® Server 2008 R2, Windows® Server 2012 (R2) |
| CPU: | Intel Multi Core CPU > 1.5 GHz | Intel Multi Core CPU 2 GHz | Intel Multi Core CPU 2 GHz |
| RAM: | 4 GB | 16 GB | 16 GB |
| HDD*: | 1 GB free disk space for iQ-WEB installation files, additional space is needed for image data* | 1 GB free disk space for iQ-WEB installation files, additional space is needed for image data* | 1 GB free disk space for iQ-WEB installation files, additional space is needed for image data* |
| Network: | 100 Mbit/s | 1 Gbit/s | 1 Gbit/s |
| Database: | MySQL 5.5.x 32bit /64bit** | MySQL 5.5.30 64bit | MySQL 5.5.30 64bit |



*Required size depends on number of images to be stored in the PACS. To calculate your hard disk space requirements, please visit www.pacscalculator.com

**Systems with less than 100.000 studies can use 32 bit version of MySQL.

SYSTEM REQUIREMENTS

| HARDWARE & SOFTWARE REQUIREMENTS | | |
|----------------------------------|---|--|
| | CLIENT (MINIMUM) | CLIENT (RECOMMENDED) |
| OS: | Windows® XP Pro 32bit with SP3, Windows® 7 Pro 32bit/64bit with SP1, Windows® 8(.1) Pro 32bit/64bit | Windows® 7 Pro 32bit/64bit with SP1, Windows® 8(.1) Pro 32bit/64bit |
| CPU: | Intel Multi Core CPU >1 GHz | Intel Multi Core CPU >1.80 GHz |
| RAM: | 2 GB | 4 GB |
| HDD*: | 100 MB free disk space for iQ-X installation files, additional space is needed for image data* | 100 MB free disk space for iQ-X installation files, additional space is needed for image data* |
| Network: | 128 Kbit/s - clinical reference 1 Mbit/s - diagnostic purposes | 1 Gbit/s |
| Graphics: | Resolution of ≥ 1024x768, 24 bit color / 8 bit gray output, Nvidia/ATI ≥ 256 MB VRAM | Resolution of ≥ 1280x1024, 24 bit color / 8 bit gray output, Nvidia/ATI ≥ 1 GB VRAM |
| Browser: | Internet Explorer ≥ 8 (32 bit) | Internet Explorer ≥ 8 (32 bit) |
| iQ-WEB2GO: | Android 4.x or iOS ≥ 5.x device | Android 4.x or iOS ≥ 6.x device |

*Required size depends on number of images to be temporarily stored on the client computer.

OUR PRODUCTS FOR YOUR IMAGING NEEDS

VET-PACS
VET-RIS
VET-VIEW
MED-TAB™

The full featured, reliable and affordable PACS for Vets
The radiology information system for veterinarians
The radiology reading station designed for veterinarians
Superior portable image analysis



IMAGE INFORMATION SYSTEMS LTD.

3RD FLOOR | 207 REGENT STREET | LONDON W1B 3HH | UNITED KINGDOM
TEL. UK: +44 20 3289 1500 | TEL. GER: +49 381 496 5820 | TEL. US: +1 704 323 6663
FAX GER: +49 381 496 582 99
INFO@IMAGE-SYSTEMS.BIZ | WWW.IMAGE-SYSTEMS.BIZ

