The DICOM cloud for veterinary medical images and documents

Archive, view and share images, findings and documents (telemedicine)
based telemedicine
and archiving
for small and large animal practices,
clinics and universities

Cloud solutions have been tried and tested worldwide. This technology
provides access to state-of-the-art software services on a pay-per-use basis, while
simultaneously reducing the need for expensive computing and communications
infrastructure in the office.

An ever-growing number of companies has chosen to rely on services and
storage hosted remotely in the “cloud”. Today's high data transmission rates
make remotely hosted services ranging from simple image backups to complete
collections of servers increasingly attractive. Applications and data stored
remotely are accessible wherever a connection to the internet exists.

A daily challenge in veterinary medicine is processing the large volume of
images generated by modern equipment. Medical diagnostics greatly benefit
from advances in high-quality imaging techniques and at the same time is
faced with growing data volumes.

ORCA® (OR Technology Cloud Archiving) is a software solution designed
to make everyday work in horse clinics, veterinary universities and veterinary
practices easier, cheaper and more efficient. ORCA® archives medical images and
documents on its remote access servers using highest security standards.
At the same time, ORCA® is an online platform for sharing medical images and
findings with experts, animal owners and horse breeders. The storage
space can be individually adapted to current requirements.

More detailed information about the DICOM cloud for medical images and
documents can be found here.
Scenario

Image generation

Automatic archiving in the cloud

Authorisation for colleagues or referring physicians to access studies

Access to images and diagnoses from mobile devices

Diagnosis by external colleagues / diagnostic centres
Application

ORCA® offers two exciting applications: ORCA® Archive and ORCA® Share

**ORCA® Archive**

Archive and backup solution

ORCA® Archive transfers and stores image files from direct sources (e.g. digital X-ray, CT, MRI and ultrasound systems) as well as from PACS (Picture Archiving and Communication Systems). ORCA® Archive can be used as a backup solution.

Wherever the internet is accessible, images archived in the cloud can be viewed at maximal resolution and quality (DICOM) via the integrated browser-based ORCA® View program and our acquisition software dicomPACS®.

**ORCA® Share**

Communication platform and telemedicine solution

At the same time, ORCA® is a platform for sharing data with external partners. The application ORCA® Share facilitates exchanging images, documents and medical findings with colleagues and specialists. ORCA® Share can also be used to give patients access to medical reports and images.

Recipients are sent an access link to specific files via email. There is no need to install software locally.

For more detailed information please see: www.or-technology.com
Test ORCA® for free

Login to your free ORCA® Share account. With account you can upload up to 10 cases to the cloud and share them with an unlimited number of recipients. Further transfers can be purchased under a flatrate or pay-per-use plan.
DICOM Cloud specification
for medical professionals

- **Secure image and document storage** as well as easy access for authorised persons

- **Efficient workflow** – optimised for medical applications

- Can also be used in special work environments; at sea, at home or to consult specialists in various fields

- Images available in JPEG format and lossless **DICOM quality**

- **Comprehensive editing**, measuring (partly AI-based) and reporting tools

- Also optimised for **use on mobile devices**

- Straightforward and **intuitive handling**

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)
Upload images / documents

**Modalities**
(CR, DR, US, CT, MRI, etc.)

**Foreign PACS [VNA]**

**dicomPACS®vet**

DICOM file import directly via https://orca.de.com

Access images /
How does ORCA® work?

**documents** **Share images / documents**

Access the images using any internet browser

or

in *dicomPACS*® on computers with Windows or Mac operating systems

**Share procedure**

1. Authorise access to a report in the cloud with the help of the integrated address book
2. Automatic e-mail notifications
3. Diagnosis by referring physicians, diagnostic centres, or colleagues (second opinion)
4. Automatic e-mail notification with diagnostic report transfer

Animal owner/customer, such as horse owner, horse breeder

Experts

Colleagues

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)
Stationary application:
Image import from any PACS and archiving medical images directly from the modality in the DICOM cloud.

Mobile Application:
Archiving veterinary images in the DICOM cloud for mobile use in stables, horse races, etc.
Advantages
of the DICOM Cloud
for stationary and mobile applications

Fast access
Register on https://orca.de.com and begin working with ORCA® immediately.

No expensive equipment
ORCA® provides access to remote servers and software solutions. There is no need for an office filled with expensive equipment. Billing is usage based (flatrate or pay-per-use).

Excellent scalability
System memory can be adjusted according to your requirements.

24/7 access
Images and documents are accessible at any time from all mobile and stationary devices with an internet connection.

Straightforward
The user-friendly interface is self-explanatory. Support is available online.

No more service contracts
ORCA® is automatically updated and serviced without extra charges.

Data security
ORCA® guarantees automatic data backups and high security standards. Data loss as a result of malware or hardware failure is a thing of the past.

Accessibility
Excellent accessibility is ORCA®s top priority.

Fit for the future
ORCA® archives all data in modern computing centres. The server technology is updated regularly.

Communication
ORCA® is also a communication platform. Sharing images and documents with doctors and other authorised persons is a breeze.

Optimal workflow
ORCA®s many special functions and settings make workflow customisation easy.

For more detailed information please see: www.or-technology.com
Images can be downloaded from the cloud to a local PC and imported into the existing PACS of any manufacturer.

The ORCA® database can be accessed directly from dicomPACS® vet by OR Technology.

Each generated X-ray image can be archived directly in ORCA®.
Upload and archive

A selection of the ORCA® Archive’s outstanding benefits for veterinary applications [excerpt ...]

Import images from any PACS
Images and documents in DICOM format can be sent directly to ORCA® from any PACS. Alternatively, files can be imported and archived via ORCA® View.

Archive images directly from the modality
All medical imaging devices (e.g. digital X-ray, CT, MRI and ultrasound units) can send DICOM images directly to ORCA® for archiving.

Access images - any time, any place
Images can be accessed via the internet using the ORCA® View program.

Import images into any PACS
Images and documents can be transferred from ORCA® to local computers and imported into existing PACS.

Direct access via dicomPACS® vet
OR Technology’s dicomPACS® vet software accesses the ORCA® database directly, without needing to download the images first.

For more detailed information please see: www.or-technology.com
With ORCA® you have a sophisticated telemedicine at your disposal, e.g. for emergency situations in the stable or for mobile use in equestrian sports for a diagnosis of the most special.

ORCA® guarantees a very simple procedure for assignors and recipients with automatic notification emails and various email templates.
Share images and documents

A selection of the ORCA® Share outstanding benefits for medical applications [excerpt ...]

Sophisticated telemedicine
Images can be shared in different ways:
- directly via the ORCA® website using an integrated address book
- via our dicomPACS®vet image management system

Straightforward procedures
Recipients (colleagues, animal owner, experts) receive a secured access link via email. Email templates can be programmed. Image access dates and ORCA® download permissions can be specified.

Medical findings are collated
New findings are appended to existing entries and related documents. The collated documents form the findings history. These documents can be sealed using a digital signature.

File attachments for clinical studies
Files in any format (e.g. PDF, Excel) can be appended to clinical studies. This allows relevant documents including consent forms, explanations and other information to be found and accessed quickly.

For more detailed information please see: www.or-technology.com
Email template with integrated address book

Email templates for notifications concerning new images can be programmed (e.g., for colleagues, animal owner, experts). Image access dates and download permissions can be specified.
Web-based viewer

ORCA® View for mobile devices (Android or iPad), PCs, Netbooks

Images can be viewed directly via our dicomPACS®vet image management system or with the ORCA® View program.

ORCA® View is a cross-platform application for all browsers and mobile devices. ORCA® View allows vets to access radiological images 24/7, whether they are in the animal practice or equine clinic.

Our web-based viewer offers all key functions of a professional PACS viewer. In addition to image viewing, the program includes image processing options, comprehensive tools for searching, editing, comparing and exporting, as well as several measurement functions. Custom templates facilitate writing reports.

Using ORCA® View requires no local software installation.

Security and data privacy

ORCA® guarantees secure and cost effective storage of large data volumes in the cloud (DICOM images, documents, attachments). In keeping with highest security standards, your documents are stored and automatically backed up in your designated ORCA® archive on servers physically located in Germany and subject to German data protection regulations. Malware and data loss as a result of hardware failure are problems of the past. The service is scalable and can be adjusted to your requirements.

For more detailed information please see: www.or-technology.com
Print images and documents

Medical reports including customisable report templates

Now with AI supported surveying functions

Various functions for image processing: image inversion, brightness and contrast adjustment, resizing
**ORCA® View** basic functions of the DICOM cloud

**ORCA® View** is a web-based image viewer offering file sharing capabilities (email with integrated address book, image anonymisation, etc.), print and export functions, as well as all basic functions for viewing and analysing images:

- Image annotation in various colours (e.g., arrow, text)
- Measurement (e.g., length, angle)
- Automated, AI-based measurement functions (HD, others in development)
- Reports including customisable report templates
- File attachment
- Image comparison using different grids
- Image rotation and mirroring
- Brightness and contrast adjustment, image inversion, zooming in/out
- Full screen and fit image modes
- Image panning
- Image series scrolling
- Cine loop for multi-frame series and MRI/CT
- Document and image export
- Document and image printing

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)
Further information about OR Technology is available:

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www.or-technology.com | X-perts in X-ray

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