![ORCA® logo]

The DICOM cloud
for medical images & documents

Archive, view and share images, findings and documents (telemedicine)

Share images and documents

Archive images and documents

Cloud

ORCA®

based telemedicine
and archiving

for practices and hospitals

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 human 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 every day work in private practices and hospital 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 doctors and other authorised persons**. The storage space can be individually adapted to current requirements.

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.

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 flat rate
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 and reporting tools

- Also optimised for **use on mobile devices**
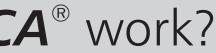
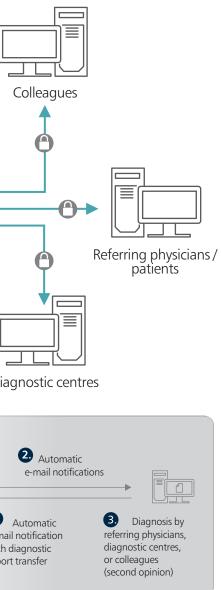- Straightforward and **intuitive handling**

How does **ORCA**® work?

dicomPACS®

DICOM store

Foreign PACS [VNA]

DICOM store

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

DICOM store

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

DICOM store

ORCA

ORCA *Archive*

ORCA *View*

Access the
images using any
internet browser

or

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

ORCA *Share*

Colleagues

Referring physicians /
patients

Diagnostic centres

Share procedere

2. Automatic
e-mail notifications

1. Authorise access
to a report in the cloud
with the help of the
integrated address book

4. Automatic
e-mail notification
with diagnostic
report transfer

3. Diagnosis by
referring physicians,
diagnostic centres,
or colleagues
(second opinion)

Stationary application:
Image import from any PACS and image archiving of medical images directly from the modality in the DICOM cloud

Mobile Application:
Archiving of medical images in the DICOM cloud for mobile use in emergency medicine

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 (flat rate 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 regularly updated.

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.

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*® by OR Technology

Each generated X-ray image can be archived directly in *ORCA*®.

10

Upload and archive

A selection of the *ORCA*® *Archive*'s outstanding benefits for medical applications [excerpt ...]

ORCA® *Archive*

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.
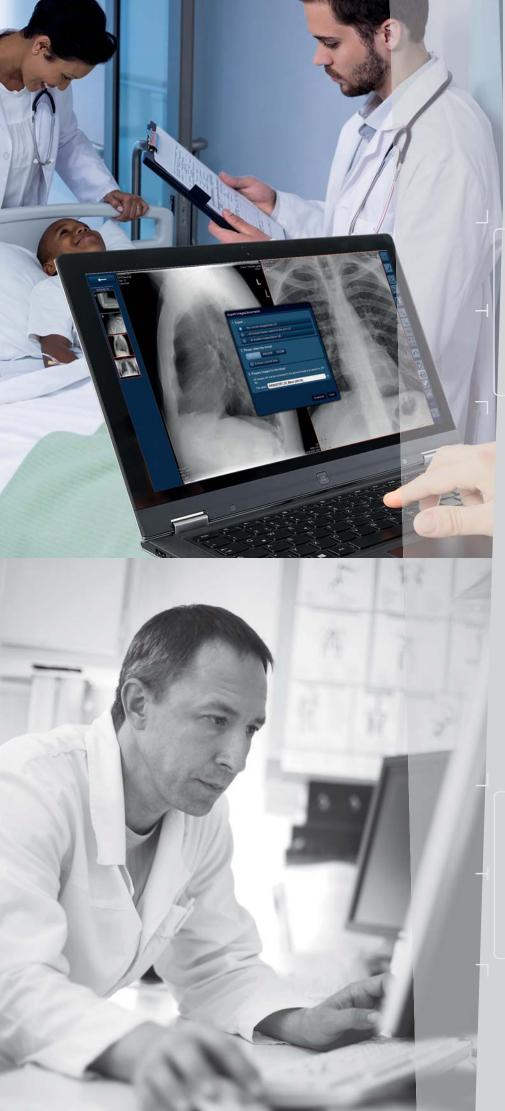
Access images - any time, any place

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*®

OR Technology's *dicomPACS*® software accesses the *ORCA*® database directly, without needing to download the images first.

With *ORCA*® you have a sophisticated telemedicine at your disposal, e.g. in emergency situations at sea or for mobile use in medical emergencies for a special diagnosis by a specialist.

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 ...]

ORCA® *Share*

Sophisticated telemedicine

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

Straightforward procedures

Recipients (colleagues, referring physicians, diagnostic centres) 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.

Email template with integrated address book

Email templates for notifications concerning new images can be programmed (e.g., for colleagues, referring doctors, diagnostic centres). 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 **dicom***PACS*® 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 doctors and caregivers to access radiological images 24/7, whether they are in the hospital, a practice or making a house call.

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 report templates facilitate writing eports.
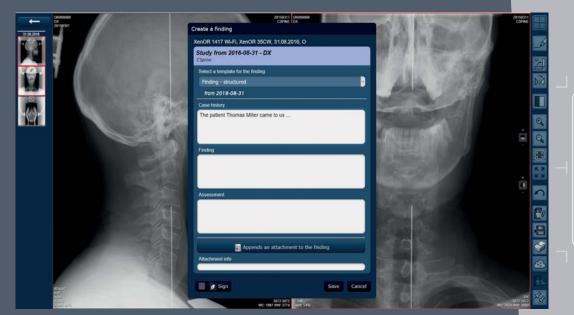
Using **ORCA** *View* requires no local software installation.

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.

Print images and
documents

Medical reports including
customisable report
templates

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)

- Reports including custom 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

☺ OR Technology

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

OR Technology (Oehm und Rehbein GmbH), 18057 Rostock, Germany, Neptunallee 7c
Tel. +49 381 36 600 500, Fax +49 381 36 600 555
www.or-technology.com, info@or-technology.com

Info hotline: +49 381 36 600 600

[Stamp of distribution partner]

Further information about
OR Technology is available: