The DICOM cloud for medical images and documents

Archive, view and share images, findings and documents (telemedicine)
Automatic archiving in the cloud
Access to images and diagnoses from mobile devices
Authorisation for colleagues or referring physicians to access studies
Image generation
Diagnosis by external colleagues / diagnostic centres
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 service is scalable, allowing adjustments in storage space as demand grows.
Capabilities

**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 staff, colleagues and specialists. **ORCA Share** can also be used to give patients access to medical reports and images.

Recipients are sent an access link pertaining to specific files via email. There is no need to install software locally.
Secure image and document storage as well as easy access for authorised persons

Efficient workflow – optimised for medical applications

Images available in JPEG format and lossless DICOM quality

Comprehensive editing, measuring and reporting tools

Optimised for mobile devices

Straightforward and intuitive handling
How does **ORCA** work?

OR Technology Cloud Archiving

### Upload images / documents

- **dicomPACS®**
- Foreign PACS [VNA]
- Modalities (CR, DR, US, CT, MRI, etc.)
- DICOM file import directly via https://orca.de.com

### Access images / documents

- ORCA Archive
- ORCA View
- ORCA Share

Access the images using any internet browser

or

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

### Share images / documents

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

- Colleagues
- Referring physicians / patients
- Diagnostic centres

**Share procedure:**

1. Automatic e-mail notifications
2. Access the images using any internet browser
3. Share procedures
4. Authors access to a report in the cloud with the help of the integrated address book
5. Automatic e-mail notification with diagnostic report transfer
6. Diagnosis by referring physicians, diagnostic centres, or colleagues (second opinion)
Advantages of the DICOM cloud

Intelligent telecommunications solution and archiving of images, documents and medical findings 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.

Test **ORCA** for free!
The ingenious medical cloud

A selection of the ORCA Cloud's outstanding benefits for medical applications

Upload and archive images and documents

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.
Sophisticated telemedicine
Images can be shared in different ways:
- directly via the ORCA website using an integrated address book
- via our dicom/PACS® 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.
Web based viewer

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

Images can be viewed directly via our *dicomPACS®* 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 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.
ORCA View offers all essential functions of a professional PACS viewer

ORCA View is a web based image viewer offering file sharing capabilities (e-mail 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)
- Findings 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

E-mail template with integrated address book

E-mail 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.
Print images and documents

Medical reports including customisable report templates

Various functions for image processing: image inversion, brightness and contrast adjustment, resizing
**Portfolio**

Overview - products of OR Technology

- **Medici DR Systems**
  - DR retrofits - digital upgrade set for existing X-ray systems incl. *dicomPACS® DX-R* acquisition software, also available for stationary and mobile X-ray machines

- **Leonardo DR Systems**
  - DR suitcases - compact suitcase solutions for portable X-ray incl. *dicomPACS® DX-R* acquisition software

- **Amadeo X-ray Systems**
  - Complete digital X-ray systems (incl. stand, bucky, generator, flat panel incl. *dicomPACS® DX-R* acquisition software etc.) as well as mobile and portable X-ray solutions

- **Divario CR Systems**
  - CR solutions - CR systems for digital X-ray with cassettes incl. *dicomPACS® DX-R* acquisition software

- **X-ray Accessories**
  - Accessories for X-ray (e.g. radiation protection walls, gloves etc.)

- **dicomPACS®**
  - Image management (PACS) - comprises acquisition, processing, diagnosis, transfer and archiving of image material

- **ORCA**
  - Cloud-based archive solution - safe, long-term archiving of patient data with intelligent usage of internal databases, communication platform with colleagues and specialists and transfer of image data to patients

- **dicomPACS® DX-R**
  - X-ray acquisition software [only for OEMs] - acquisition and diagnostic software for X-ray images from flat panels or CR systems

---

**Info hotline:** +49 381 36 600 600

**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

[Stamp of distribution partner]