Platform for Ophthalmic Image Management and Device Integration

HEIDELBERG
EYE EXPLORER

HEYEX 2

HEIDELBERG ENGINEERING

A secure, scalable platform to streamline image management, device integration and data sharing

As the image management platform for all Heidelberg Engineering products, **HEYEX 2** scales from a small practice with just a single device to a large enterprise with hundreds of imaging devices across multiple sites. HEYEX 2 enhances security, transforms your workflow, and future-proofs your clinic.

- **Enjoy the peace of mind of enhanced security and stability**
- **Configure a scalable solution to meet your individual needs**
- **Streamline your workflow to increase efficiency**
- **Bring everything together in one view**
- **Experience the simplicity of secure and seamless sharing**

Dual screen mode with the Data Manager (left) and the Multimodality Viewer (right) for the most efficient use of the system

Enjoy the peace of mind of enhanced security

We want to ensure that your Heidelberg Engineering devices are updated with the latest cyber security features and that all patient records and images are secure, so you can focus on delivering the best patient care.

Protect patient data

Whether you are a small eye care practice or a large hospital department, cyber security is not only an IT problem; it is essential to patient safety. HEYEX 2 technology safeguards patient data internally and externally.

With **HEYEX 2 Presidio** server solution, you secure not only your software applications and devices, but also protect centralized patient and image databases, firmware, and other critical elements.

Improve compliance

Vendor neutral archiving and automated backups allow you to focus on your work instead of administrative tasks. Centralized log management and auto-logout improves compliance and makes efficient use of your floating licenses.

Configure a scalable solution to meet your needs

Designed to improve its availability when your business demands more resources, HEYEX 2 provides the perfect foundation for growth.

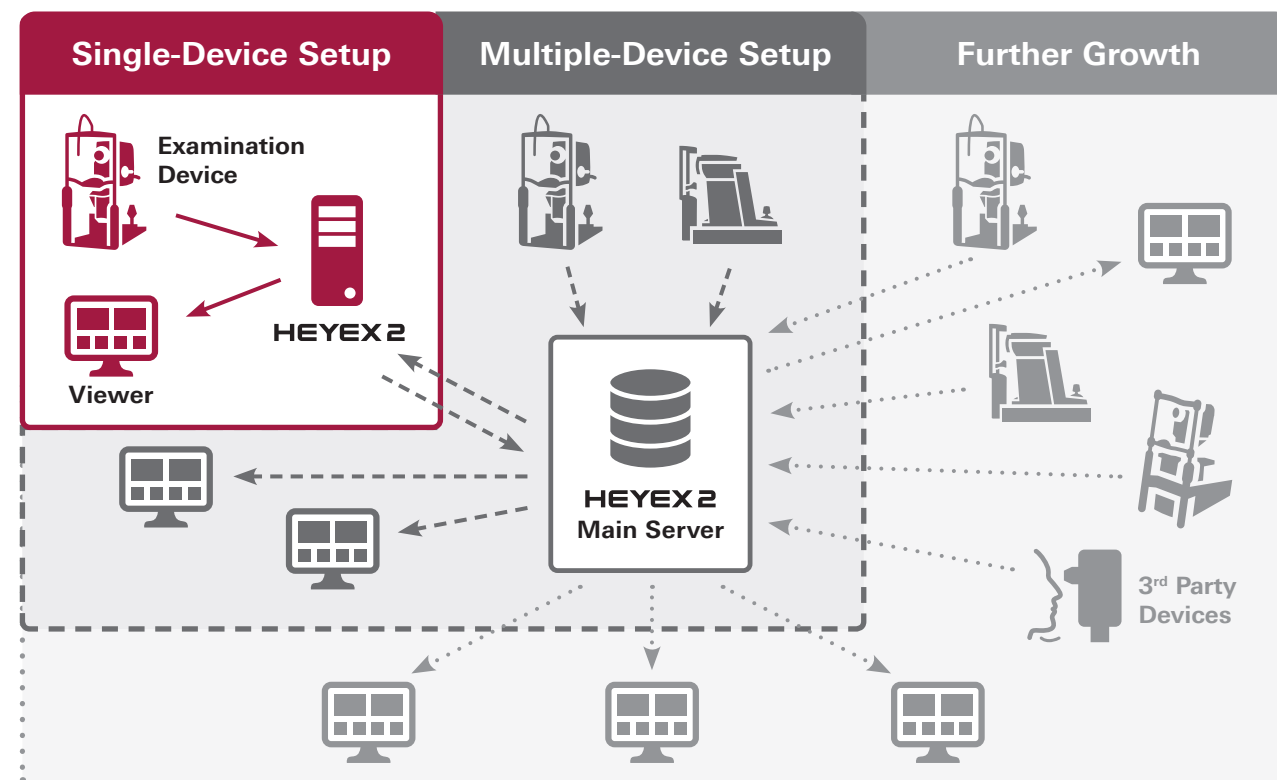### Start with a robust database and infrastructure

A SAP® SQL database builds the foundation for the stability and scalability you need. Fast retrieval of large image files and simultaneous access to the same patient record, examination, and image by more than one user improves workflow efficiency and system stability. Setting up the infrastructure properly with a scalable SAP® SQL database will support a growing number of devices and workstations over time. HEYEX 2 also supports customized server virtualization.

Update all users from a single-source

The central software distribution to all acquisition and viewing stations also simplifies future updates and upgrades, allowing instant access to new functionality across the network – for a seamless and up-to-date workflow.

Expand your scope

With multisite compatibility you can ensure efficient data exchange even in large clinics with satellite offices. Invest in a future-proof solution and expand your scope to support a mobile working environment.

Single-Device Setup

Examination Device

HEYEX 2

Viewer

Multiple-Device Setup

HEYEX 2 Main Server

Further Growth

3rd Party Devices

Experience the power of PACS

The power of the **HEIDELBERG EYE EXPLORER** ecosystem extends beyond our own product portfolio. With its roots in radiology, **HEYEX 2 PACS** is a Vendor Neutral Archive (VNA). Built on industry standards, HEYEX 2 PACS offers third party device integration, interfaces to Electronic Medical Record (EMR) and Hospital Information Systems (HIS), and advanced archiving and backup options.

Add third party devices

The scalable design of HEYEX 2 allows you to easily store DICOM images directly to the existing VNA or upgrade to HEYEX 2 PACS functionality when you are ready to integrate other devices into HEIDELBERG EYE EXPLORER ecosystem. The Generic Acquisition Module makes it possible to import any type of image (non-DICOM) and record the laterality, to consolidate all image data and enhance efficiency.

Integrate EMR data

Optimize your workflow with the seamless integration into your EMR. Order additional scans, integrate important numeric data into the patient overview, review reports from within and launch HEYEX 2 directly from your EMR to access more detailed information.

Analyze your usage

The Audit tool provides statistical analysis of parameters, exports, and utilization, as well as support data cleansing to optimize your clinical routine.

For enhanced overview of your patients' data and disease history, HEYEX 2 combined with HEYEX EMR* is the right choice.

*HEYEX EMR is currently only available in selected markets.

Streamline your clinical workflow

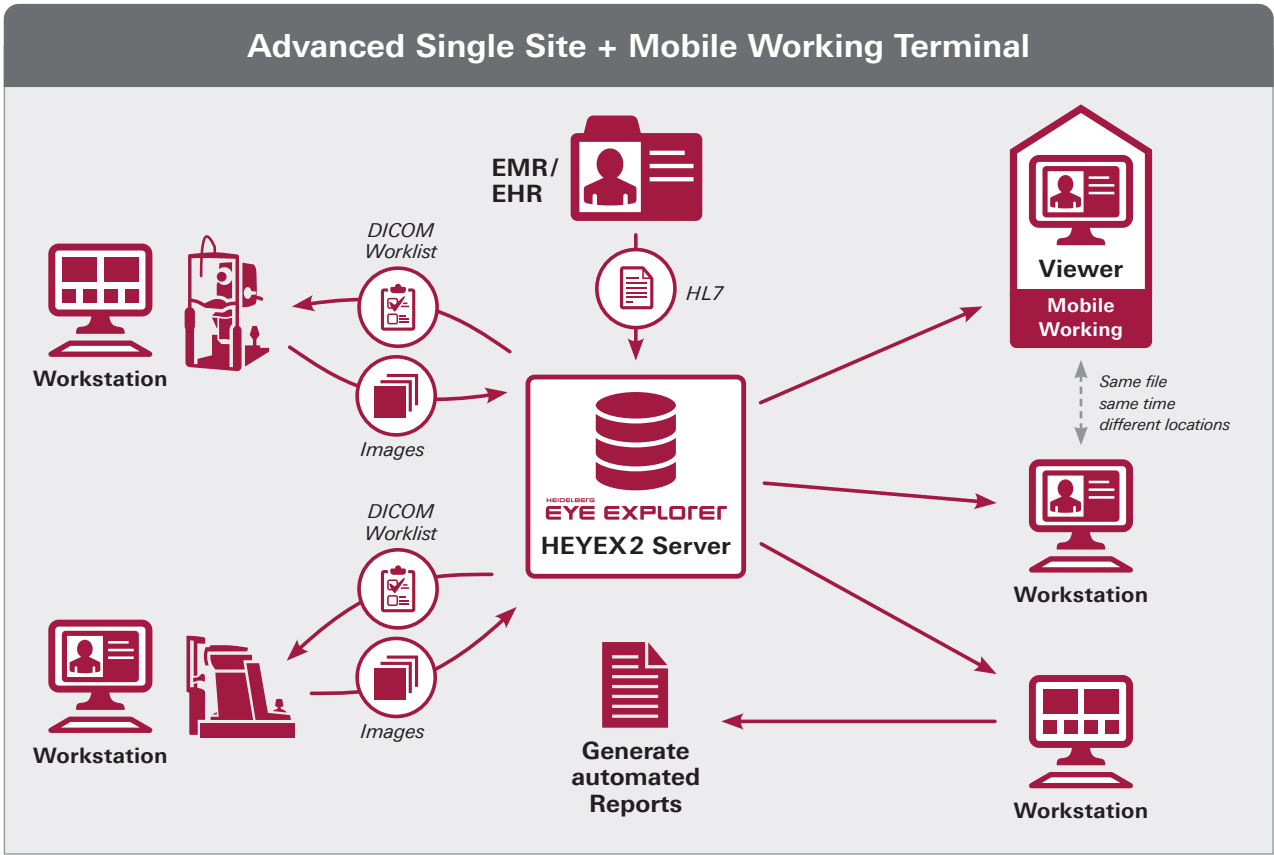### Instantly integrate into your clinical routine

HEYEX2 Presidio server solution not only enhances data security, but gets you up and running as fast as possible. Our in-place migration minimizes downtime and lets you start working in HEYEX2 on day one.

Configure your own view

The configurable user interface provides the data you want and the functionality you need, tailored by individual default settings. For example, you can increase your view by collapsing the menu bars and create a favorites toolbox accessible at the touch of a button. Additionally, the HEYEX2 navigator gives a 3D view of the patient with procedures, thumbnail images, and reports all in one view.

Access images and clinical tools from any workstation

The HEIDELBERG EYE EXPLORER ecosystem makes every Heidelberg Engineering device a HEYEX2 workstation and every HEYEX2 workstation gives you access to the clinical functionality on every device. All clinical viewing and analysis tools available on Heidelberg Engineering devices, including the powerful lightbox, are embedded into the HEYEX2 platform. Conversely, the power of the Multimodality Viewer is embedded on every device.

Advanced Single Site + Mobile Working Terminal

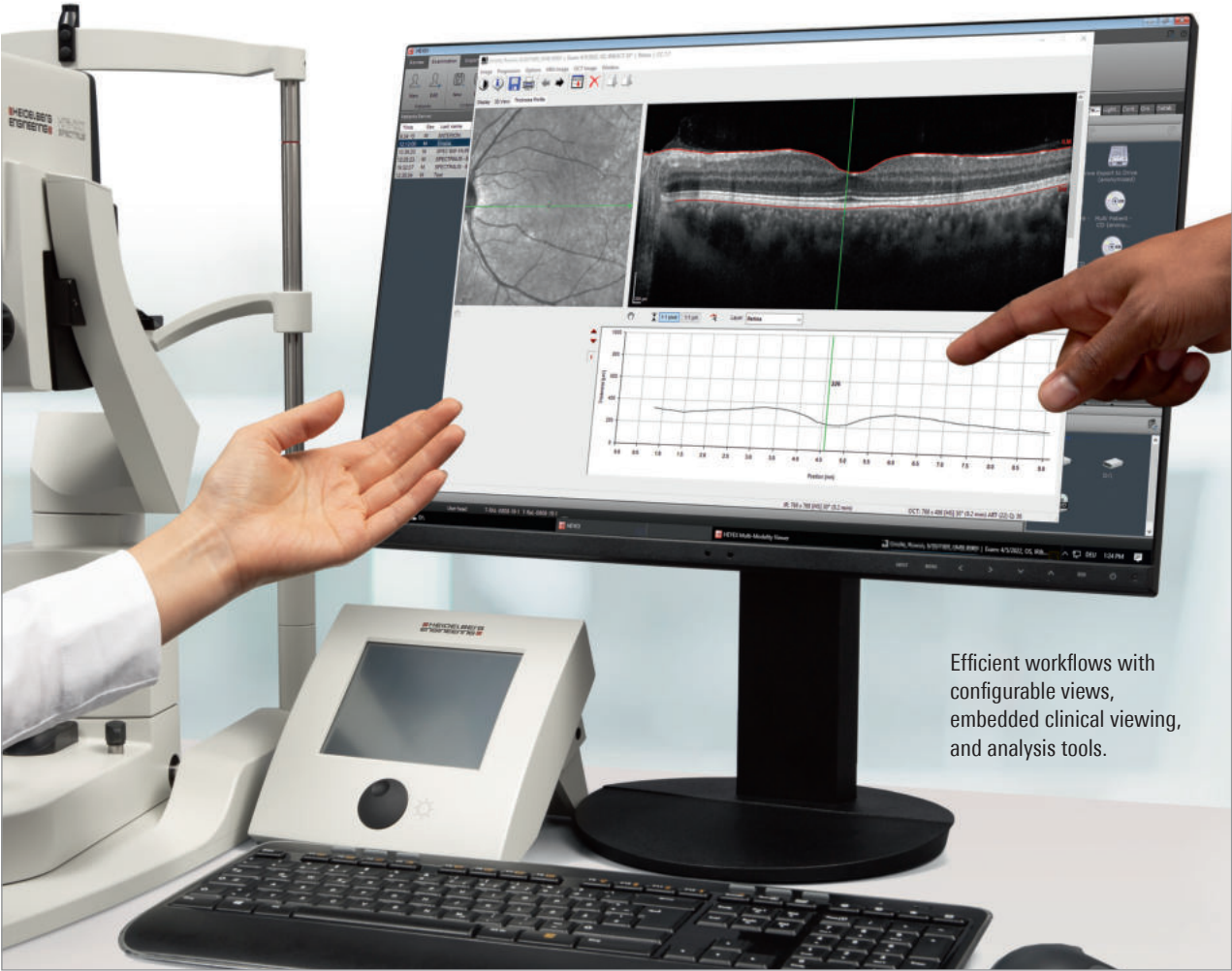### Enjoy the efficiency of modality worklists

Increase efficiency by assigning modality worklists to all devices or operators. In addition, you can request scan protocols on multiple devices by pathology, device, or consultant.

Generate intuitive reports automatically

The ability to create and save reports helps to standardize your processes and save time. Automated reports provide quick access to all the relevant information needed for a faster assessment of each patient.

Improve compliance and efficiency

Transform your workflow and improve compliance by ordering directly from your EMR. Standardized interfaces connect HEYEX2 to hospital information system (HIS) and EMR to access patient demographics, diagnostic and treatment data and relevant billing information to holistically streamline clinical routines. The structured data captured by HEYEX EMR further enhances compliance and provides robust reporting and auditing of patient outcomes.

Efficient workflows with configurable views, embedded clinical viewing, and analysis tools.

Bring everything together in one view

The powerful **HEYEX 2 Multimodality Viewer** transforms data from a wide range of imaging device modalities, as well as multiple visits into clinical intelligence in a single view. Simply drag and drop the images and reports you want to see onto one of the preconfigured formats or create your own viewing protocol.

Simultaneously review images from both eyes, from any of the available modalities, and e.g. play multiple FA/ICGA videos at the same time.

Enjoy a truly multimodal image management platform with additional editing tools. Zoom in to the area of interest or adapt contrast and brightness to your preference just by moving the mouse. Make annotations within the viewer for easy access to your notes.

The Multimodality Viewer also allows for a dual monitor mode, giving you even more insight and more information at a glance.

True multimodal image management for a comprehensive overview.

Experience the simplicity of secure sharing

Access to the **HEYEX 2 Cloud Exchange** makes sharing data and images simple and secure beyond your own organization without a VPN connection. Exchange data directly with insurance providers, referral networks, multi-site enterprises and multi-center research collaborators. Unique peer-to-peer exchange technology raises the standard for simplicity and security.
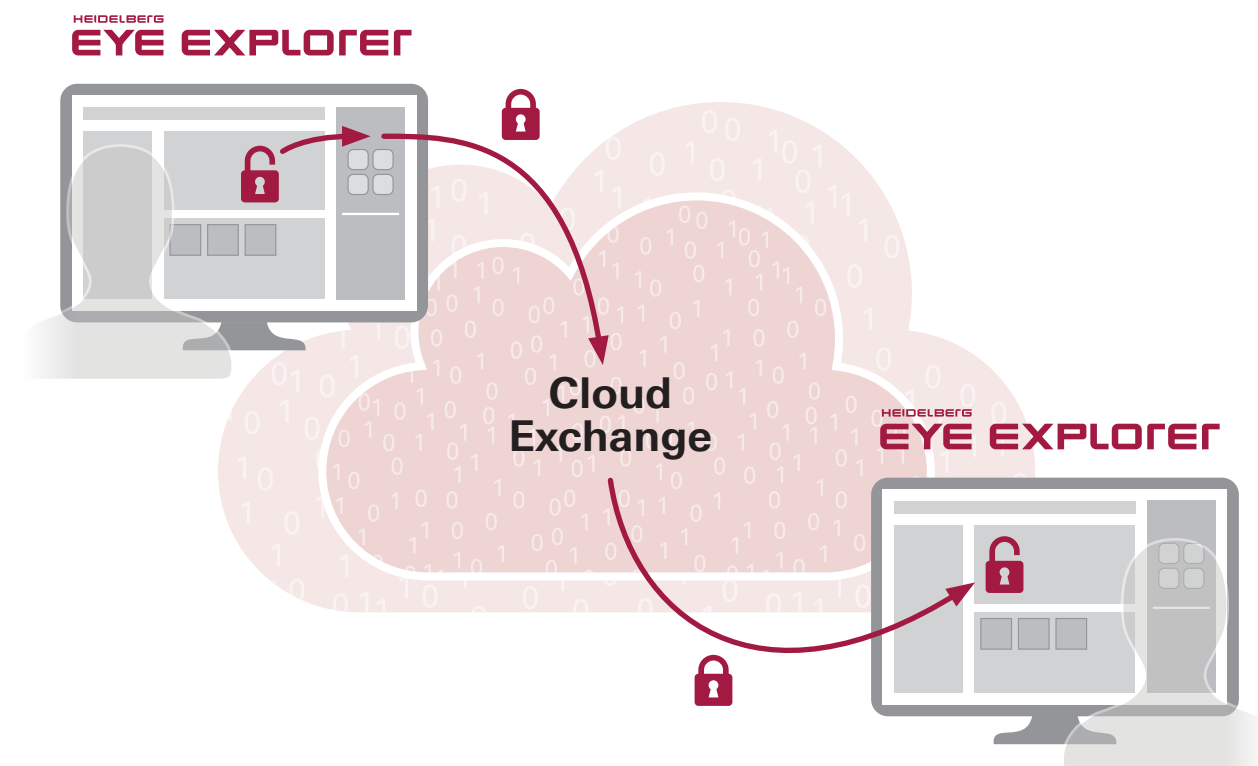
Set up quickly and easily

Set up customized studies, contacts and locations in seconds to streamline your workflow and share data securely with confidence.

Share with one click

The simple drag and drop feature allows sharing of complete data sets with a colleague, a different department, across sites or even other institutions with one click, giving you the option to anonymize the patient automatically.

Safeguard patient data

HEYEX 2 Cloud Exchange provides a simple end-to-end encrypted, peer-to-peer data transfer.

Your secure way to ophthalmic apps

Heidelberg AppWay is a secure gateway to access both clinical and research ophthalmic applications and AI algorithms that can offer additional insight into diagnostic images for both Heidelberg Engineering and third-party devices.
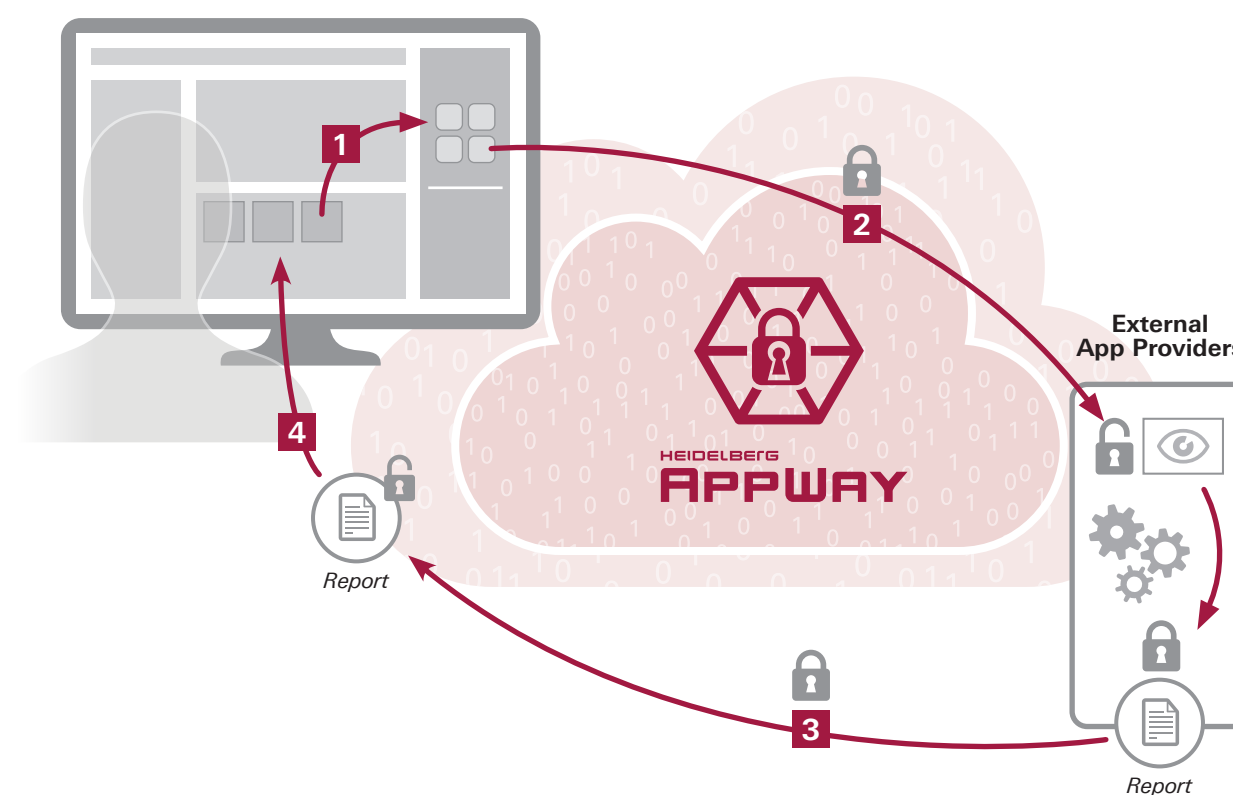
Secure

Simple

Seamless

Access AI analytics

Utilizing the HEYEX 2 Cloud Exchange technology, **Heidelberg AppWay** allows you to choose from multiple third-party SaaS (software as a service) solutions from within HEYEX 2.

With the rapid development and market introduction of deep learning algorithms for decision guidance and diagnostic insight, Heidelberg AppWay offers a compliant and secure workflow to combine the power of Heidelberg Engineering image quality and analytical or artificial intelligence (AI) applications for clinical routine and scientific research.

Heidelberg Engineering has partnered with SaaS and AI companies to provide secure access to a growing portfolio of innovative ophthalmic apps.

1 Drag and drop the image file onto the icon of the desired app.
2 Encrypted and pseudonymized data is sent to the external app provider via the Heidelberg AppWay cloud.
3 Encrypted analysis report is sent back to HEYEX 2 via Heidelberg AppWay.
4 The report is decrypted and the pseudonymisation is removed.
   The report is assigned to the corresponding patient in HEYEX 2.

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