# eRepository

## A window on the patient's medical history

**eRepository** is the Exprivia solution for storing and sharing electronic clinical documents produced during contacts between patients and the hospitals and health facilities throughout the diagnostic and therapeutic course.
**eRepository** provides complete visibility of all types of documents produced by the applications the healthcare facility uses.
The information collected - clinical data, radiographic images, biometric tracks and reports of the diagnostic services (laboratory, radiology, pathological anatomy) - become part of the repository that can very easily be consulted.
**eRepository** contains the medical history of the patient, making available results, images, documents and other information on the clinical activity that is useful for treating the patient.
The solution is based on web technology that provides maximum usability both inside and outside of the health facility, ensuring security of accesses and respect for privacy.
The multimedia repository that Exprivia has designed aims at optimising the search for information to ensure continuity of treatment inside and outside the hospital, enabling units and radiology services to manage and distribute images and reports electronically, saving considerable time and costs.



Its utility is given by the fact that as the patient is able to use different healthcare facilities throughout the territory without distinction, on-line consultation of his clinical history by the different healthcare facilities becomes important.
**eRepository** is designed to be used as an intra-hospital working platform or in an inter-hospital configuration to collect data relating to the patient regardless of the health facility where the citizen goes, and enriching his clinical profile with all the information concerning him.
Regarding the healthcare professionals, immediate availability of the radiographic images and clinical documents in the unit creates new value for them allows clinical decisions to be taken in a more timely manner.
With reference to the reduction of clinical risk, **eRepository** is able to track accesses to the published reports and if they are reissued, it sends out alert emails or SMS messages.

# Integrated management of clinical data and data access

The solution allows heterogeneous data (radiographic images, documents in text format, etc.) coming from different systems (laboratories, radiology, etc.) to integrate in a perfectly homogeneous manner inside the repository. The communication between **eRepository** and the diagnostic and clinical services is developed on international communication and interoperability standards:

- **DICOM** - full support to the DICOM classes for images, ECG and structured reports;
- **HL7** - HL7 messaging support for feeding the flow of data from ADT, the single booking centre, LIS and CIS to the document Repository;
- **IHE-XDS** - certified support given to the IHE, XDS and XDS-I Registry and Repository profiles, in addition to the personal data profiles;
- **ebXML** - support of interoperability standard for eBusiness and opening to the administrative-management systems.

Access to the data is available via browser with several benefits, including:

- it can be invoked by simple integration from other hospital procedures, such as HIS, unit record, etc.;
- documents produced regardless of their format (word, rtf, Dicom images, etc.) can be displayed;
- it is independent from the operating system used (Windows, Linux, MacOS);
- happens in https safe mode, ensuring security in activation of the display and transmission of the information;
- allows management of privileges for the different user profiles - for example, a primary care physician will be able to consult the list of reports of one of his patients and view the additional diagnostic documents (images, ECG, etc.).



# Distinctive elements

### High configuration
The **eRepository** browser has a powerful scripting language that allows it to be configured according to the user and his privileges, characterizing both the query parameters and the list of fields displayed for each clinical document.

### Value trend management
The solution has implemented clinical value trend management using a graphical view of the lapse of time through specific information classification methods.

The e4cure MedStation CE 0476 - eArchive - eRis - eVisit suite is a certified Medical Device (93/42/CEE) of class IIA.
The complete list of versions of the certified models is available by contacting Exprivia.

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