eArchive
Integrated management for the diagnostic imaging department

eArchive is the Exprivia solution for centralized archiving of images, videos and diagnostic traces.
With **eArchive** and the **eViewer** and **MedStation** reporting products, Exprivia offers a suite of products natively integrated into a simple, ergonomic, flexible and powerful solution for diagnostic imaging.

Archiving system

The archiving system constitutes the heart of the PACS system and offers an articulated set of functions capable of responding effectively to the different organizational scenarios present in the diagnostic departments.
eArchive was designed by Exprivia alongside its customers: the result is a highly configurable and multi-platform system (Linux, Windows), capable of responding to the needs of a mini-PACS as well as those of a PACS Enterprise, thanks to the inherent scalable architecture.
In compliance with the DICOM and IHE standards, eArchive is extremely open, rich in features and supports, in a single multimedia archive, numerous formats ranging from radiological and cardiological images, to endoscopic films, to biometric traces. **eArchive** can be easily integrated even in contexts in which the existing diagnostic equipment and information system are not standard: it is possible to automatically check the personal data coming from diagnostic modalities that do not support the DICOM Worklist (Booking Search), send image streams automatically to specific destinations (Auto Routing) and recall in the peripheral departments the images that will be needed for the activities of the following days (Prefetch).
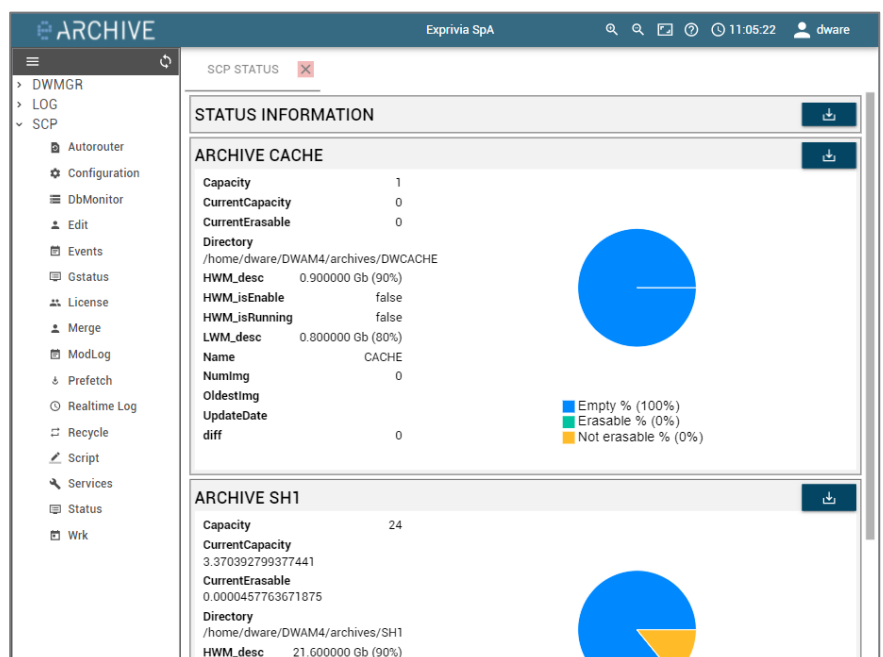**eArchive** can be integrated with Legal Substitute Retention systems in compliance with national regulations.

Operating Systems and Databases

eArchive is a multi-platform system that supports Linux and Windows operating systems and allows migration from one system to another while preserving the historical archive. High reliability and virtualized configurations are supported. The supported relational DBMS are Oracle and PostgreSQL.

Storage media

eArchive is based on a hierarchical and totally flexible storage architecture that allows you to configure the archive by composing multiple Short Term and Long Term devices.

Storage plans

eArchive allows you to apply the storage plans according to the information contained in the DICOM TAGs or present in the various integrated management systems. Using scripting logics, it is possible to define migration policies between logical archives (Short Term, Long Term or replacement archives) and possible compressions.

API web services

eArchive has an architecture with native web query and integration services according to current interoperability standards (eg DICOM QUIDO and WADO). All communications between the eArchive server and the MedStation reporting workstations, as well as those between different **eArchive** servers, are carried out over a secure web channel. Therefore it is possible to create distributed architectures with extremely flexible characteristics, suitable for multi-department and multi-company configurations, based on data centers and oriented towards teleconsultation according to specific needs.

Management of the PACS system

The flexibility of the **eArchive** system allows the configuration of different solutions to meet the needs of each individual department. The simultaneous and transparent management of different archives guarantees a high level of availability and security of the archived information. The graphic web interface, accessible from a browser, allows in a simple and intuitive way to "connect" the various archives present in the system and to establish the criteria, defined on the basis of the needs and operational logic of a radiology service, with which the images are moved from one service to another.

Remote monitoring

eArchive benefits from the monitoring service of application systems and integrations that takes place thanks to Exprivia's **eSupervisor** system. This system is characterized by:

- ability to alert, autonomously and in real-time, the figures in charge of resolving technical anomalies and application problems when such anomalies and problems arise (spaces on file systems, device access errors, tablespaces on databases, etc.);
- ability to easily highlight technological inefficiencies;
- availability of powerful and flexible tools for analyzing the "big data" generated by monitoring.

The products: eArchive, eLifeCare, eRis/eVisit, eViewer, eWard, MedStation are $C \epsilon$ ⁰⁴⁷⁶ (93/42 / EEC) certified Medical Devices of class IIA. The complete list of certified model versions can be obtained by contacting Exprivia. eArchive is included in the e4cure suite in the AGID catalogue of qualified SaaS services.