

DicomWare XDS Registry&Repository

The DicomWare system for electronically archiving and storing images is now also available as the DicomWare XDS Registry&Repository, used for electronically archiving and storing any electronic document created by hospitals and health facilities.

DicomWare XDS Registry&Repository is unique in that it extends the image archiving functions of existing PACS DicomWare, supporting all communications and interoperability standards in the health and eBusiness sector, i.e.:

- ✓ **DICOM:** full support for DICOM image classes, EKG, structured reports.
- ✓ **HL7:** HL7 message support for data flow between ADT, CUP, LIS, CIS and the Document Repository.
- ✓ **IHE-XDS:** certified support for IHE XDS Registry and XDS Repository profiles, as well as for patient profiles.
- ✓ **ebXML:** support for eBusiness interoperability standards and openness towards administrative/management systems.

Access to data is available via a browser, which provides various advantages:

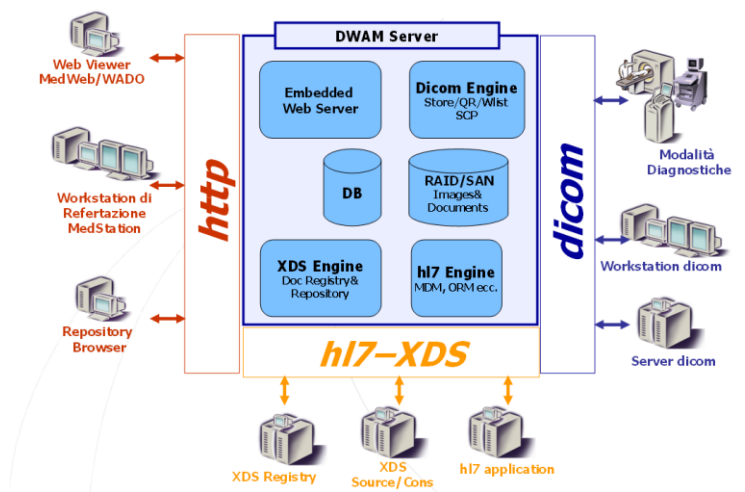
- ✓ it can be invoked by other corporate procedures, such as HIS, electronic health record, etc. via a simple integration procedure;
- ✓ it is independent of the operating system being used (Windows, UNIX, MacOS);
- ✓ it takes place in secure https mode;
- ✓ privileges can be handled for various user profiles: for example, family doctors will be able to consult the list of records for one of their patients and display other diagnostic documents (images, EKG, etc.).

In order to reduce clinical risk, DicomWare XDS Registry&Repository can track access to records and, when these are updated, can send out e-mail messages or SMS alerts.

The modularity of the product and the availability of Registry and Repository, even as separate components, gives individual organisations decisional autonomy, and makes integration possible with existing Registries or Repositories found outside the organisation (local, regional or even national).

Finally, the whole document base can be stored on electronic storage devices using the DicomWare Retention Server product, providing clear benefits in terms of simplifying the architecture and data management.

Architettura DWAM Repository



Query parameters:

From: Insert date: To: Insert date: Status: DocumentId: Approved

Patient name: Patient ID: AccNum: Study date: Sex:

Insert date	document_uid	IID	parent_iid	Status	Name	Id	Birth date	Sex	Acc num	Study date
12/05/2008 16:43:33	1.3.76.13.1097060332	1.3.76.13.800.192.168	1.3.76.13.800.192.168	Approved	DEMO2*EXPRIVIA	09908943	01/09/1959	M	99110657-1	20/10/2004
12/05/2008 16:43:34	1.3.76.13.1085397870	1.3.76.13.800.192.168	1.3.76.13.800.192.168	Approved	DEMO2*EXPRIVIA	09908943	01/09/1959	M	99110660-1	25/05/2004
12/05/2008 16:43:33	1.3.76.13.1087377649	1.3.76.13.800.192.168	1.3.76.13.800.192.168	Approved	DEMO2*EXPRIVIA	09908943	01/09/1959	M	99110659-1	16/06/2004
12/05/2008 16:43:33	1.2.840.113619.2.22.28	1.3.76.13.800.192.168	1.3.76.13.800.192.168	Approved	DEMO2*EXPRIVIA	09908943	01/09/1959	M	99110658-1	10/06/2004

DicomWare Retention Server for electronic storage

Exprivia's electronic storage product is not limited to the diagnostic imaging sphere but extends, via an open, flexible, standards-compliant architecture to handling storage issues in a wider healthcare context (reports, discharge letters, CPRs, clinical documents in general) as well as to the administrative sector.

DicomWare Retention Server for electronic storage is in fact an open infrastructure, capable of receiving not only documents (images and reports) created by Radiology departments, but also (via both healthcare and generic interfaces) documents of various kinds.

The electronic storage service augments the current infrastructure, involving different data flows:

- ✓ images and DICOM reports: via the DICOM standard;
- ✓ other clinical documents: the system can be fed by the hl7-MDM and XDS health standards, or else in a proprietary fashion, with a flow of clinical documents (reports, discharge letters, etc.);
- ✓ other administrative-type documents: lastly, via the ebXML standard (eBusiness XML, the international standard for exchanging information in eBusiness contexts) or with proprietary integrations, the system can handle accounting and administrative documents (e.g. invoices, orders, general documentation on accounts payable and receivable, etc.).

The production of electronic backup media is not limited just to DVDs, but includes RAID WORM and DLT WORM systems, and can be organised by flow, for example mastering the various flows onto different DVDs, with different colours and labels, or else channelling various flows onto different devices (e.g. with images going onto Worm tape cartridges, and reports and administrative documents onto DVD).

