



Solution Brief

Dell and Telepaxx: e-pacs Compliant Medical Archive Solution

Dell and Telepaxx's e-pacs Medical Archive Solution can offer:

- Minimized migration efforts and scalability for future data growth
- Automated DICOM-compliant data validation mechanism and data integrity verification
- Streamlined integration into your current clinical workflow due to PACS compatibility
- Reduced data and storage management costs with a medical archive cloud interface
- Increased availability including DICOM server access through the DICOM appliance
- Adherence to healthcare standards (HL7, HIS, IHE PIR) to help ensure the most up-to-date data is retrieved and files are connected to the right patient
- Ability to meet strict Germany privacy standards and is in the process of extending certification with the European Privacy Seal, EuroPriSe

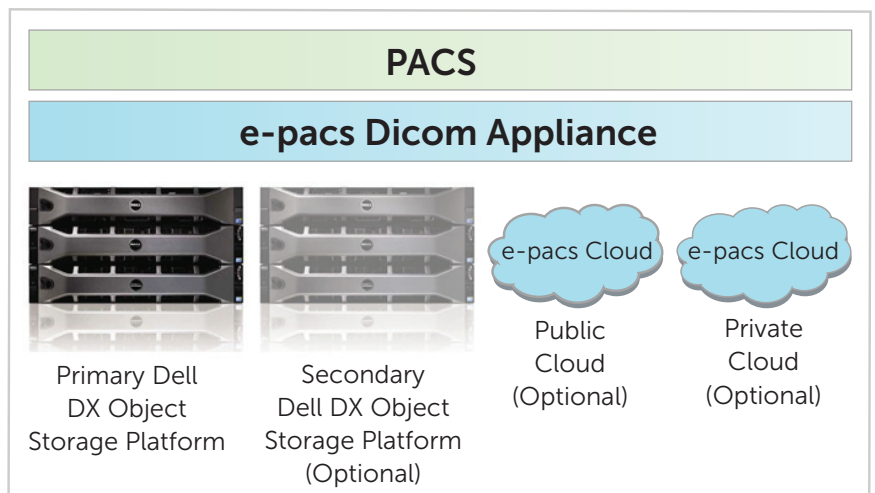
Are you experiencing strict privacy regulations, explosive data growth, and lengthy retention time requirements? Data growth is increasing by 200 GB to 4 TB per year for an average electronic picture archiving and communication systems (PACS) customer like you. Today more and more of your departments even beyond radiology, are potentially producing enormous amounts of data which need to reside on your storage infrastructure.

Beginning in 1996, over a hundred healthcare organizations like yours have trusted Telepaxx e-pacs™ for the management of medical archives. Telepaxx's client base ranges from private image centers to large clinic groups and small clinics to University hospitals and can create a customized solution to fit your individual needs.

With Telepaxx e-pacs and the Dell™ DX Object Storage Platform you can continue to use your established PACS solution and easily adopt new applications and storage technologies with decreased migration efforts.

Ease of migration and massive scalability

Are you worried about your organizations' data migration costs due to lengthy migration times and frequent equipment replacement? Asynchronous background migration introduces advanced storage technologies in the future without additional efforts for your organization. The DX Object Storage Platform will scale to keep pace with your data



growth. Ideal for large-scale digital content and long-term data storage, it can empower your organization to add capacity in amounts as small as 3 TB scaling up to petabytes and to billions of objects without the set-up, management complexity and costs of traditional file and block storage.

Ensure long-term validity and integrity of data

Are you concerned about compliance with the Digital Imaging and Communications in Medicine (DICOM) standard for all of your archived images and the overall integrity of your data? e-pacs can validate the major DICOM header contents for compliance with the DICOM standard. Otherwise non-conformant data might be archived for years unrecognized and pose a severe cost/time risk during your future migration to a different PACS application. Agnostic DICOM validation on check-in helps to spot problems immediately and to solve them at the source. Combining e-pacs validation mechanisms with the DX Object Storage Platform's self-healing functions can provide long-term integrity of your data.

Integration with your PACS solution

Are you considering a new archiving solution but worried about integration with your PACS provider? Over 15 different PACS products have already been successfully integrated with e-pacs. In the Integrating the Healthcare Enterprise (IHE) scenario the PACS acts as your Image Manager. The e-pacs Medical Archive Solution takes over the role of your Image Archive. Using standard protocols like DICOM, Health Level Seven International (HL7), e-pacs and the DX Object Storage platform can be effectively and easily integrated into your clinical workflow. As your PACS application is separated from your long-term archive, you will own your data, regardless of your PACS application.

Built in Medical Archive Cloud Interface

Are you looking for a solution that offers you financial flexibility and scalability? e-pacs can send copies for archiving, backup or DR purposes via secure internet connections to e-pacs storage centers, that either are run by a clinic group (= private cloud) or by Telepaxx (= public cloud). With the Medical Archive Cloud Interface, not all copies must be mirrored onsite and that helps you reduce costs and save time. Additionally the Cloud Interface combined with the DX Object Storage provides flexibility and scalability for future growth.

Emergency access and availability

Does your organization struggle with high availability and back-up requirements? The e-pacs DICOM Appliance contains a full DICOM Server and can be directly accessed by the modalities and dedicated workstations, in case your primary PACS server should have an unexpected downtime.

Securely access and update patient information

Are you concerned about data validation mechanisms and data accuracy? The hospital information system (HIS) patient data updates and merges are sent to the e-pacs DICOM Appliance via HL7 protocol. e-pacs helps keep all data within the DX Object Storage consistent with the HIS data by applying those changes to the archive image data without changing the original files. Due to this all changes are logged and can be reversed if necessary. e-pac's IHE-Patient Information Reconciliation (PIR) mechanism helps keep the information in the long-term archive consistent with HIS. e-pacs contains a versioning capability that allows users to reconnect data to the proper patient. All versions of a file will be kept, but only the most recent version is delivered on request. In addition, an extended DICOM storage commitment mechanism is used to ensure the integrity of the images across all tiers of storage. For further protection, the DX Object Storage Platform's policy-based retention and selectable content control permits only authorized users to reference, alter and delete data.

Services to help find the right solution

Dell DX Object Storage and Telepaxx e-pacs technology is one of the many solutions that Dell can provide to meet your specific needs. Leverage Dell Healthcare Consulting Services Industry experts to design and implement a Compliant Medical Archive Solution that is tailored to your organization.

Simplify your storage at Dell.com/DXPartners

