



Etelaresani Payvand Dadeha (EPD Co. Ltd)

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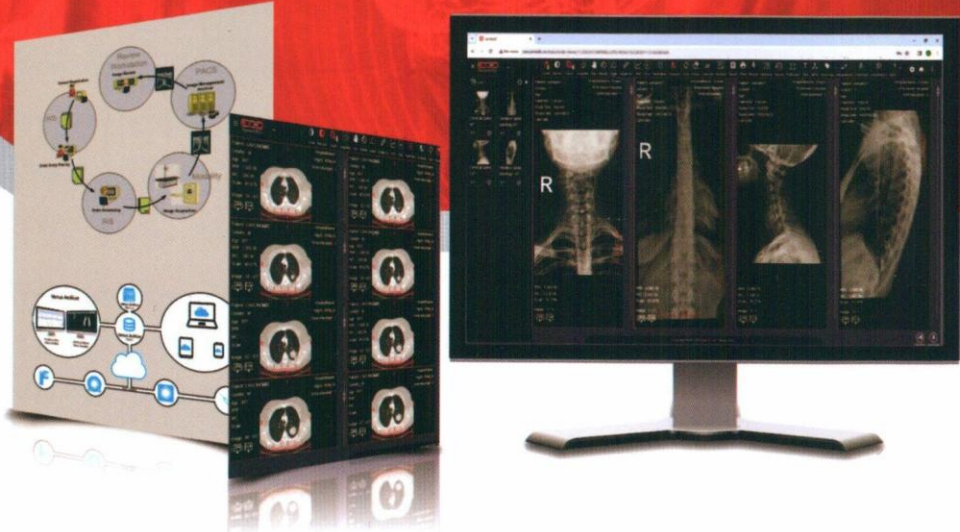
"EPD Co. Ltd." group is the Iranian company based on largest providers of eHealth solutions such as **PACS & HIS** in IRAN with a great team consisting of health informatics experts, Radiologists, and physicians. Backed by more than 25 years in the medical software industry, our company delivers more than +30 eHealth products, capabilities, and services that power thousands of customer sites worldwide.



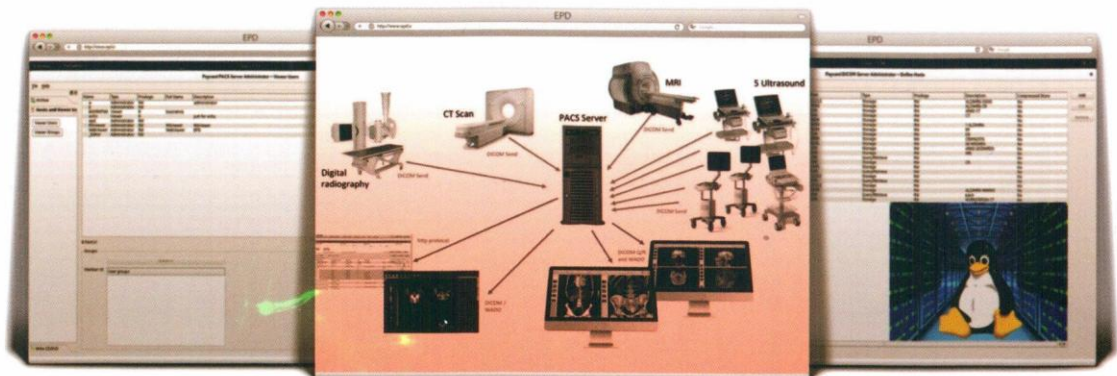
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Introduction to PACS solution

- PACS stands for picture archiving and communication system which is a medical imaging technology that provides storage and access to digital images acquired by imaging modalities. It transmits digital images and reports electronically, which eliminates the need to manually file, retrieve, and transport film jackets. It has become a versatile tool in managing various medical image types generated from multiple imaging instruments.



- Due to the various needs of our customers and seeking technology upgrade we produce different PACS systems in different platforms, each one has its own usage. From standalone diagnostic workstation under the windows platform up to the Enterprise PACS.





Diagnostic Mini-PACS

Advance windows base app for single usage or in addition to enhance the quality of our other PACS solutions.



Local (Network) PACS

Web base product for small to big medical centers with multiple modalities and users.



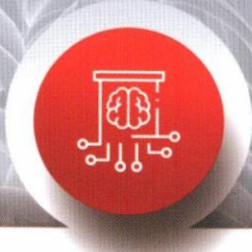
Cloud PACS

Software as a service (SaaS) application mainly for very small medical centers up to the medium size



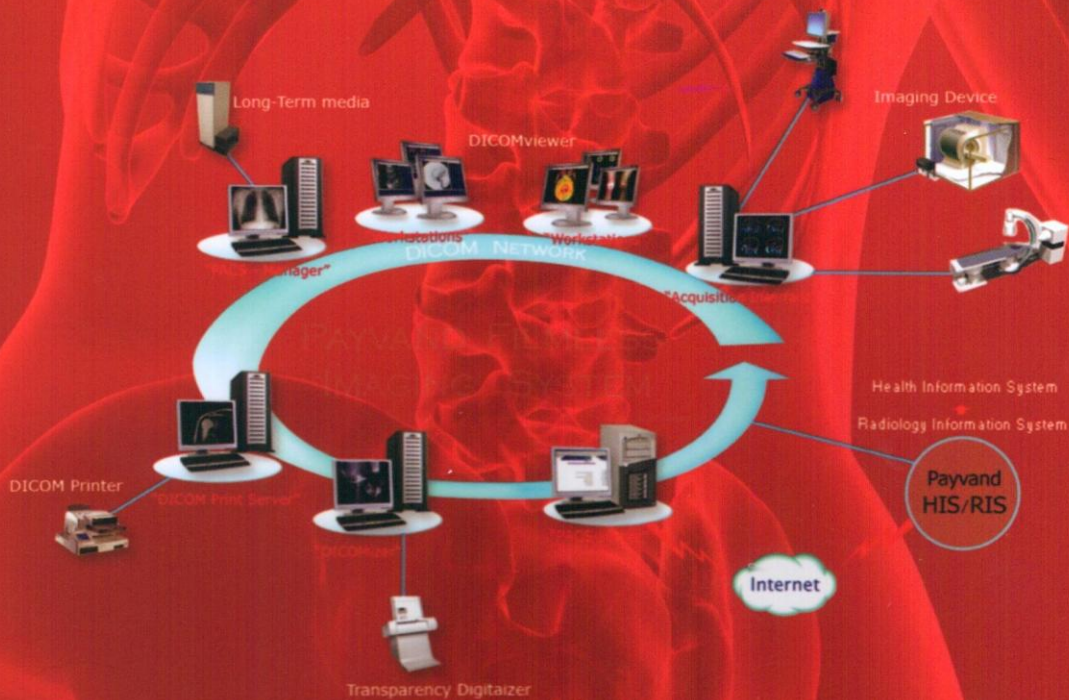
Hybrid PACS

Very high-level solution for centers with need a very stable and fast speed Internet connection.



Enterprise PACS

The most ideal solution for integration of data in group of medical centers mainly in one organization or region.



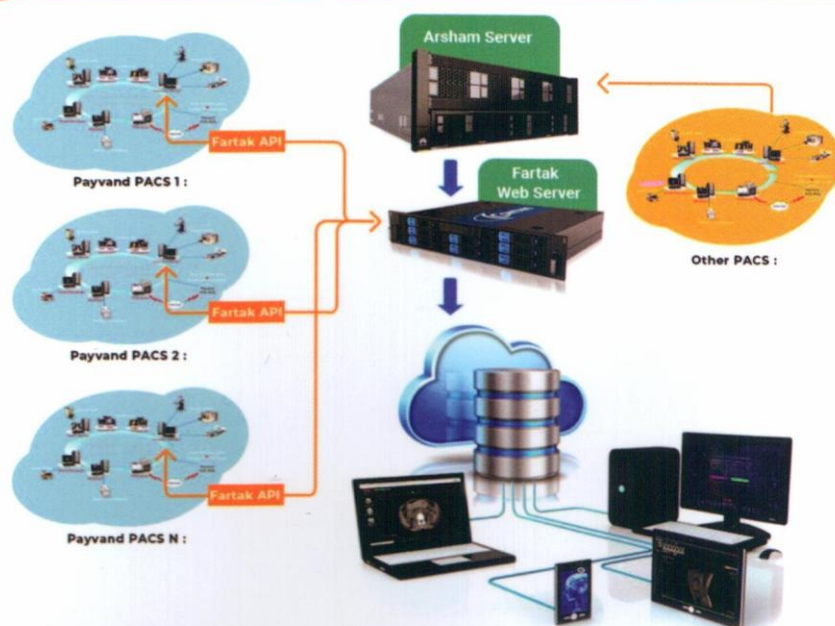
Local (Network) PACS infrastructure

Enterprise PACS

Multiple clinical centers under an institution or province can use the Enterprise PACS package, which is the enterprise version of Payvand PACS. In this case, all associated medical centers in big areas (like one province or plenty of provinces) will be connected to the one central node.



With this solution all local Payvand & other PACS can be integrated with each other via a secure API, so all-necessary data will transfer to one or multi central nodes. Using multi-central nodes is useful for data redundancy.

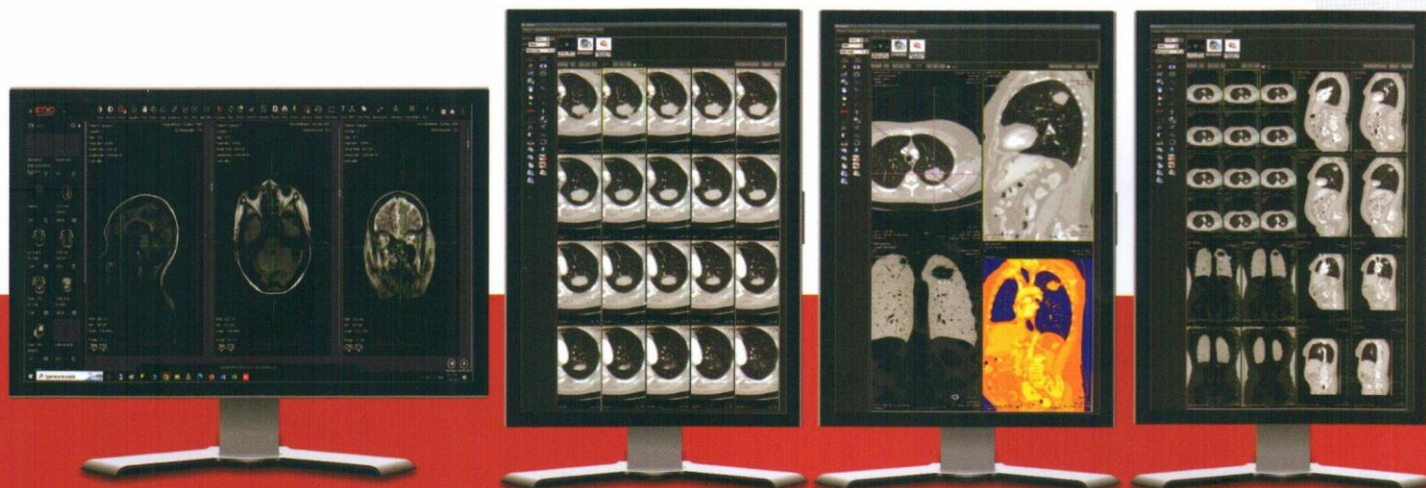


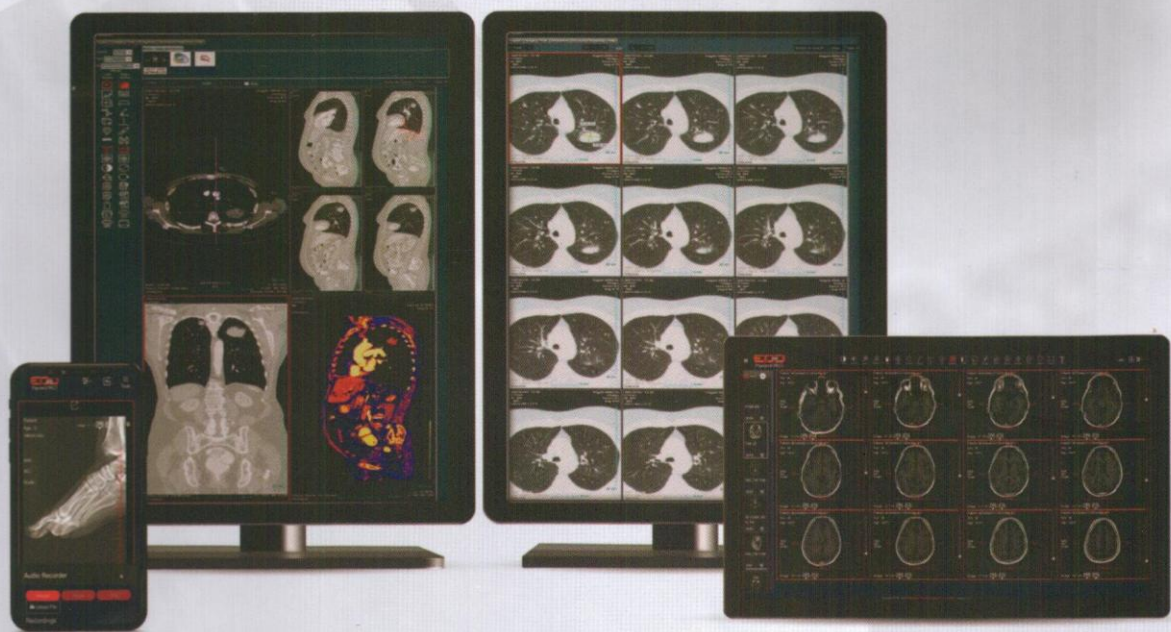
Payvand Enterprise PACS architecture

Peyvand PACS specifications	Mini PACS		Local network PACS (LAN)			
	Basic	Advance	Base	silver	Gold	Platine
Concurrent User	1	1	5	15	30	Unlimited
Number of Modalities	2	4	3	5	10	Unlimited
Web Viewer	N	N	Y	Y	Y	Y
Internet Access	N	N	N	Y	Y	Y
Kind of Modalities	All Kind of DICOM Modalities					
DBA	MySQL or MariaDB					
Server OS	N	N	Linux			
Workstation OS	windows		Windows, IOS Linux, Android			
DICOM viewer	Y	Y	Y	Y	Y	Y
Windows level	Y	Y	Y	Y	Y	Y
Vertical & Horizontal Contrast	Y	Y	Y	Y	Y	Y
Zoom in and out	Y	Y	Y	Y	Y	Y
Magnifier	Y	Y	Y	Y	Y	Y
Pan	Y	Y	Y	Y	Y	Y
Measurement tools (Ruler, Angle, angle of 2 horizontal line)	Y	Y	Y	Y	Y	Y
ROI, Hansfield Unit (Pixel, rectangle, circle)	Y	Y	Y	Y	Y	Y
Rotate	Y	Y	Y	Y	Y	Y
Layout	Y	Y	Y	Y	Y	Y
Freeland	Y	Y	Y	Y	Y	Y
Annotation	Y	Y	Y	Y	Y	Y
Multi slice	Y	Y	Y	Y	Y	Y
Image comparison	Y	Y	Y	Y	Y	Y
Cine	Y	Y	Y	Y	Y	Y
Reference Line	Y	Y	Y	Y	Y	Y
Write SR report	Y	Y	Y	Y	Y	Y
view Radiologist SR report	Y	Y	Y	Y	Y	Y
Predefined report templates	Y	Y	Y	Y	Y	Y
Use without internet connection	Y	Y	Y	Y	N	N
Concurrent Patient CD	1	1	1	1	2	3
Color Mapping	Y	Y	N	N	N	N
Scab booking	Y	Y	N	N	N	N
Compare two studies	N	N	N	N	Y	Y
DICOM voice report	Y	Y	N	N	N	N
Voice report and voice upload	N	N	N	N	Y	Y
English, Persian Voice to text	N	N	N	N	Y	Y

Peyvand PACS specifications	Mini PACS		Local network PACS (LAN)			
	Basic	Advance	Base	silver	Gold	Platine
Uzbek, Russian Voice to text	N	N	N	N	N	Y
Advance paper print	N	Y	N	N	N	Y
DICOM Print	N	Y	N	N	N	Y
SDK for Brain angiography	N	N	N	N	Y	Y
MPR	N	Y	N	N	N	Y
MIP	N	N	N	N	N	Y
Hanging protocol	N	N	N	N	Y	Y
Coronal sagittal comparison	N	Y	N	N	N	N
Wave form EKG	N	Y	N	N	N	N
Favorite image for any therapist	N	N	Y	Y	Y	Y
Access with Mobile	N	N	N	Y	Y	Y
SMS	N	N	N	N	Y	Y
Access to image via SMS	N	N	N	N	N	Y
QR Code	N	N	N	N	Y	Y
One Direction Connection to RIS/HIS	N	N	N	N	Y	Y
Bidirectional Connection to HIS/RIS	N	N	N	N	N	Y
Attach patient History to DICOM images	N	N	N	N	N	Y
Dicomizer	N	Y	N	N	N	Y
Mobile app	N	N	N	Y	Y	Y
Ability for connecting to the AlaaS	N	N	N	Y	Y	Y
Access Level for any modalities	N	N	Y	Y	Y	Y
Access Level for Therapist	N	N	Y	Y	Y	Y
Multiple archiving	N	N	Y	Y	Y	Y
IP security management	N	N	N	Y	Y	Y
Patient's access to his/her images	N	N	N	N	Y	Y
View of active and non-active archive	N	N	N	N	Y	Y
Assign therapist access to the image	N	N	N	N	Y	Y
Automatic SMS to admin for emergency	N	N	N	N	Y	Y
English language	Y	Y	Y	Y	Y	Y
Persian language	N	N	Y	Y	Y	Y
Uzbek, Russian language	N	N	N	N	Y	Y

 Etabesani Peyvand Dadeha (EPD) Co. Ltd		 Scan the QR Code
National Code: 0	Full Name:	
Gender: Other	Image Date: 12/06/2023	
To view the images, enter http://localhost:4300 and enter the following information in the patient login section		
Patient ID: DxQJ6Y Password: 657.1		
If you need to view your records in all hospitals, enter the following site http://localhost:4300		





AI plugin component for Payvand PACS:

Breast cancer detection: Since breast cancer detection requires mammography images, we use these modalities to detect mass based on density.

Stroke: The superior project, which can provide multiple features, related to the brain. Most cerebrovascular accident includes stroke. Our algorithm enables the clinician to diagnose Ischemic and hemorrhagic along with displaying hyper density, symmetry as well as segment the edge of bulging. In the brats MRI segmentation service, you can segment the tumor regions.

Other AI plugins are in the way.

