



SoliPACS™

Vendor-neutral archives – a new development in medical information technology.

In line with the global trend towards integration of patient information, EBM Technologies has offered PACS (Picture Archiving and Communication System) solutions since 1988. These solutions ensure enhanced interoperability and efficiency both within (Enterprise PACS) and across (Mobile PACS) medical institutions.

However, whereas PACS are proprietary systems, the development of the de facto standard and interface format DICOM (Digital Imaging and Communications in Medicine) has led to the development of so-called vendor-neutral archives (VNAs). VNAs are now gradually displacing more conventional PACS, not only in the field of radiology but also cardiology, oncology, ophthalmology, dermatology and even in the emergency room. Being non-proprietary, VNAs enable

the use of information technology across different healthcare systems irrespective of the supplier of software components.

The role of SoliPACS™ in the modern medical environment.

SoliPACS™ is the collective name EBM Technologies uses for its Enterprise PACS. Providing true interoperability and complete integration, all SoliPACS™ products fully reflect the healthcare sector's move away from proprietary systems: they can easily be integrated into a wide range of pre-existing infrastructures regardless of previous system vendors.



SoliPACS™

"...simplifies both access to and use of medical data."

Our clients can choose between SoliPACS™ suites and SoliPACS™ features (both are discussed in more detail below). As their names suggest, the suites are dedicated to specific fields of medicine: SoliPACS™ Radio, SoliPACS™ Mammo, SoliPACS™ Dental, and SoliPACS™ Custom all offer comprehensive solutions to specific processes.

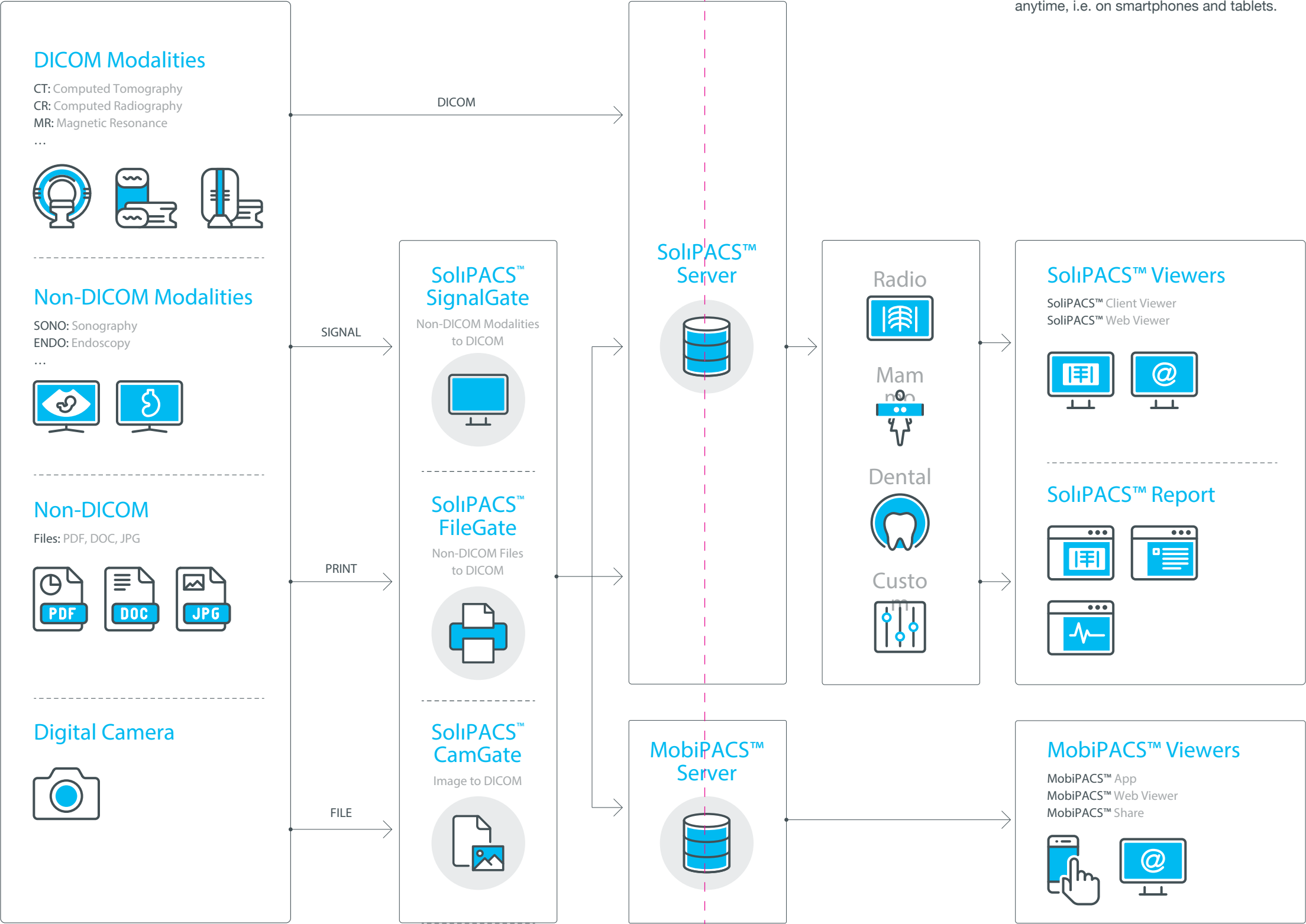
However, the flexibility of our SoliPACS™ solutions is such that clients do not have to opt for an entire package. They also have the option of installing our stand-alone features SoliPACS™ Web Viewer and SoliPACS™ Report which are used for viewing and reporting respectively. SoliPACS™ – an integrated solution that reengineers your workflow to make it more user-friendly and productive.

Key features and benefits of SoliPACS

- » Compatible with a wide and vendor-independent variety of input modalities and output hardware.
- » Optimized system integration for enhanced efficiency across the entire workflow, i.e. from scanning to viewing.
- » Simple and appealing user interface for near-instant storage, retrieval and distribution of archived images across your entire healthcare institution.
- » Simultaneous viewing and comparing of current and historic patient data.
- » Username and password-specific recognition of stored individualized workflows and viewing habits for improved user productivity.
- » Inter-departmental and inter-institutional collaboration options through NetConference.
- » Scalable licensing structure accommodating future growth anywhere between 3 and 100+ users.
- » High security based on dependable recording of all user logins, queries, and image access.
- » Exceptional reliability due to data redundancy.
- » Fast return on investment.

EBM Products

At EBM Technologies, we make a distinction between Enterprise PACS and Mobile PACS. Whereas Enterprise PACS refers to systems confined to hospitals and other medical facilities, Mobile PACS are available anywhere, anytime, i.e. on smartphones and tablets.



SoliPACS™ Products Suites



SoliPACS™ Radio

SoliPACS™ Radio is the core product of EBM Technologies. More than any other product, it epitomizes what EBM Technologies can do for healthcare providers: by digitalizing all medical imaging modalities and connecting them throughout each department and hospital, SoliPACS™ Radio provides the ultimate in healthcare interoperability solutions. A cohesive suite of solutions, SoliPACS™ Radio offers such useful functions as appointment scheduling, patient data handling from multiple workstations, elimination of repeated data entry and instant Internet-based access to diagnostic images for more efficient and accurate diagnosis.

SoliPACS™ Mammo

SoliPACS™ Mammo is an FDA-approved multi-modality mammography solution designed specifically to increase breast cancer screening participation, improve doctors' diagnostic abilities, enable full IHE compliance, and optimize workflow integration. In concrete terms, SoliPACS™ Mammo allows radiologists to view life-size, high-resolution images, select key images for review, utilize state-of-the-art image enhancement tools, and access relevant reference studies displayed in conformance with IHE mammography standards. Multi-modality hanging protocols and a single layout for different types of files further enhance breast cancer care.

SoliPACS™ Dental

The most comprehensive PACS suite offered, SoliPACS™ Dental enables dentistry professionals to view, archive, enhance and manage images and related patient information across different locations. The individual components of SoliPACS™ Dental suit the specific needs of restorative dentists, oral surgeons, periodontists, orthodontists, endodontist and oral medicine practitioners. Not requiring any additional software, SoliPACS™ Dental is a good example of a non-proprietary VNA product. This vendor neutrality not only makes for easy integration into existing systems but also significantly reduces the total cost of ownership. As all SoliPACS™ suites, SoliPACS™ Dental streamlines all work processes for higher efficiency and system reliability.

SoliPACS™ Custom

SoliPACS™ Custom allows our clients to select individual system components to build a bespoke package that best suits their specific needs. One of the exciting developments affecting all our SoliPACS™ suites is their potential for using artificial intelligence. Also referred to as computer cognition, artificial intelligence denotes the ability of machines to recognize clinical problems in digital images ahead of the diagnosing radiologist. EBM Technologies is at the forefront of these developments. We constantly strive to ensure that all our SoliPACS™ suites will help you provide the best available patient care in future too.

SoliPACS™ Features

The vital link between the scanning and the viewing stage: our SoliPACS™ gateways and server

As part of our overall SoliPACS™ solution, all data from scanning devices is immediately converted into DICOM format to ensure quick, easy and reliable downstream file retrieval, processing and storage. For this purpose, the three converters SignalGate, FileGate and CamGate are used. Once standardized, the DICOM data is stored on our dedicated SoliPACS™ Server which makes it available for use in our suites and features.

SoliPACS™ SignalGate

SoliPACS™ SignalGate is an advanced DICOM gateway that can capture and convert non-DICOM to DICOM image format. Connecting non-DICOM compliant modalities to healthcare solutions, SignalGate is available either as a PC-based software solution or as a portable standalone unit. SignalGate supports input from any modality with video output including sonographic and endoscopic data and can capture color and grayscale and cine imaging.

SoliPACS™ FileGate

Managing Electronic Medical Records (EMR), SoliPACS™ FileGate takes the complexity out of making healthcare facilities completely paperless. FileGate digitizes and transforms any graphical reports and documents (PDF, DOC and JPG files) into DICOM format for easy accessibility. FileGate cuts costs and greatly reduces errors in the management and filing of patient records. SoliPACS™ FileGate: access a patient's entire medical history with just a few clicks.

SoliPACS™ CamGate

Dedicated to digital camera images, SoliPACS™ CamGate is suitable for any application involving general digital cameras. This notably includes: beauty services, dermatology, general surgery, and skin cosmetics.

Key features and benefits of the Gateways

- » Integration of analog patient information from HIS, LIS, NIS, RIS, EIS and PACS.
- » Instant access to all images from non-DICOM devices and modalities.
- » Significant error reduction by eliminating manual data entry.
- » Intuitive interfaces.
- » Modular design for flexible system extension.



All products can be integrated into existing structures and are fully scalable for easy adaptation to additional future demands.

SoliPACS™

SoliPACS™ Server

In addition to being the storage point for patient images in DICOM format, our SoliPACS™ Server is the interface between HIS and RIS patient data and PACS. Full HL7 compliance also enables our SoliPACS™ Server to integrate with SoliPACS™ workstations any information such as patient demographics, scheduling data and diagnostic reports. Providing a smooth workflow, the SoliPACS™ Server increases patient throughput and decreases administration time and costs.

SoliPACS™ Web Viewer

From small clinics to large hospitals, SoliPACS™ Web Viewer enables radiologists and physicians to view full-sized, high-resolution DICOM-compliant images and compare them to examination results, utilize advance image enhancement tools and select key images for review. Due to its Windows-based interface and its use of Internet Explorer, it is exceptionally easy for doctors to view patient images from multiple modalities. SoliPACS™ Web Viewer therefore immediately optimizes your workflow.

Key features and benefits of SoliPACS™ Server

- » Supports databases such as MS SQL and Oracle.
- » Automatic image routing and multi-modality procedure step and support for DICOM worklist.
- » Centralized and scalable storage solution.
- » Various compression settings.
- » Provides Hyper Boost for enhanced viewing of large and high-resolution multi-frame images.

Key features and benefits of SoliPACS™ Web Viewer

- » Supports standard DICOM images from any modality for unlimited modality connections.
- » Enterprise mobile image reading.
- » Low cost of ownership, since no separate hardware and software required.
- » Wide variety of viewing tools: Enlarge / Zoom, Window Leveling, Rotate / Mirror, Cine / Stack, MPR, Measurement, Shuttering and Layout.
- » Dual monitor support.
- » Hanging protocols allow easy comparison of patient images for improved diagnostic accuracy.
- » Supports Web Access to DICOM Objects (WADO).

"We can meet specific client needs with customized solutions."



SoliPACS™ Report

SoliPACS Report provides physicians with a tool for generating professional-looking and customized reports that comply with world-wide reporting standards. The final reports can be created either by dictating (voice recognition) or typing. With other useful features such as appointment scheduling, statistical reports and report templates, this feature reduces your administrative workload while increasing patient, physician and administrator satisfaction. SoliPACS Report is thus an invaluable tool in times of increasing pressure on healthcare systems.

Key features and benefits of SoliPACS™ Report

- » Web-based order scheduling
- » Appointment scheduling
- » Match DICOM studies to specific files
- » Statistical reporting
- » Electronic report signing
- » Default and new report templates



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About EBM Technologies

EBM Technologies is a leading total solution provider of medical imaging systems, specialized in picture archiving and communication system (PACS) and systems for Personal Health Record (PHR) and Electronic Medical Records (EMR). Founded in 1988 in Taiwan, EBM Technologies has since expanded globally with a total of 150 employees and more than 3,500 hospitals being installed with our PACS across regions of Asia, North America, and soon to the Middle East. To meet the ever-evolving market demand, we have shifted our focus to mobile medical applications and AI integration solutions. At EBM Technologies, we strive to improve our products and services above and beyond industry standards for a better future in the healthcare sector. To find out more about us, visit our website: www.ebmtech.com

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