



Product Overview

ImageCare™ Medical Image Data Management
and Distribution Platform

The future of medical imaging



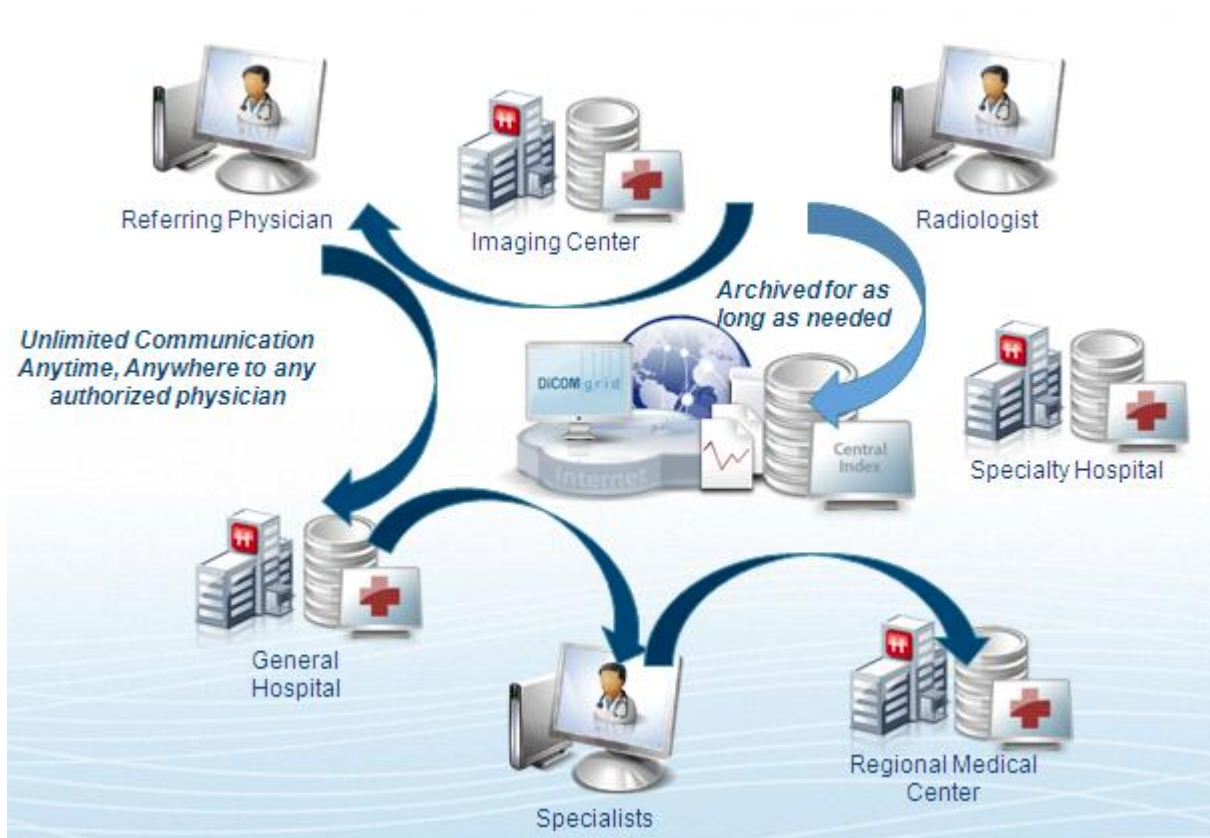
Product Overview

The ImageCare™ Platform from DICOM grid, Inc. offers a revolutionary approach to manage and distribute medical imaging content. We refer to this as PACS 2.0 *The Future of Medical Imaging*™. ImageCare is an internet platform that uses a web 2.0 subscription based business model to deliver all of the critical features an imaging facility needs to manage the complete life cycle of medical imaging data including: local near term archival for low latency distribution and access, long term cloud based archival for the entire life of the image study, disaster recovery, business continuity, and unlimited access for remote viewing by radiology staff or referring physicians. This suite of features is offered on a monthly subscription basis with no capital expense of any kind.

The ImageCare™ solution allows hospitals, imaging centers and physicians a cost effective means to achieve state and federal regulations for long term archival and disaster recovery for imaging studies. Perhaps more importantly the solution also allows unlimited electronic distribution of the medical imaging data which permits uncompromising care at no additional cost with no cost per click or other usage fees. Upon registration, the browser based imaging viewer or a simple download of the SkyCanvas™ viewing workstation are made available to accredited physicians at no cost. The multimodal viewing environment meets all of the potential workflow needs as both offer full diagnostic resolution, as well as very low latency access for simpler referring use cases.

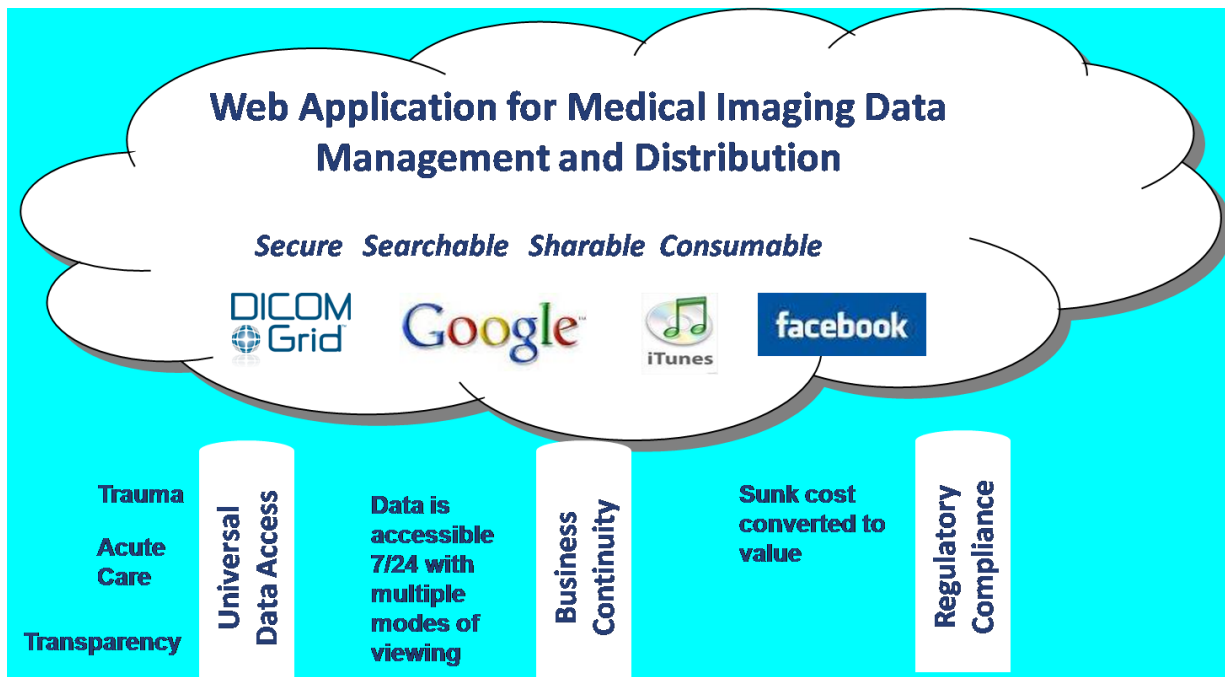
Imaging producers such as a hospital, imaging center or physician group who create medical image studies now have a single simple solution where they can upload their studies onto the “grid” for a one-time fee based on the study density, the expected annual volume of studies produced and the complexity of their distribution needs. The fee provides for complete regulatory compliance for offsite archival of imaging studies along with HIPAA compliant method to offer unlimited distribution to any physician or care giver anywhere at any time over the public internet. Optional services for HIPAA compliant disaster recovery and business continuity can be added and these typically require a onetime fee for services and integration. The service can also be extended to provide for a second copy of the archived data at a remote site. One simple transparent monthly fee with no capital expense of any kind provides for regulatory compliant archival, disaster recovery and unlimited electronic transport of full diagnostic quality medical images.

The solution leverages state-of-the-art technologies and practices, like peer-to-peer networking, grid computing, and Internet based cloud storage. The graphic below illustrates how DICOM grid operates, using a proprietary, patent-pending methodology to ensure efficient data distribution that is HIPAA compliant and more secure than current PACS 1.0 methods for access and distribution.



DICOM imaging studies are collected at the point of origin, either from a PACS or DICOM modality, e.g., CT Scan, MR, by the DICOM grid *Access Appliance*. The *Access Appliance* has a robust set of interfaces to allow any DICOM compatible study to be uploaded accurately and securely. The appliance (which can be implemented as a software only configuration) performs the patented security algorithm that splits the PHI from the imaging data and applies state of the art encryption to both of the new decimated files. The Access Appliance also uses the information in the DICOM header to determine the physician who is listed as the ordering or referring physician ordered and enables them to access the study via the internet by either giving them access rights to the study via the web based browser and/or forwarding the study to them via the public Internet in a compressed and encrypted format. Studies and access rights can also be forwarded from one physician to another, in the case of a second opinion or consult.

The ImageCare™ *Central Index* is the “switchboard” that manages the study archival and distribution and ensures successful and HIPAA compliant completion of these transactions. The physician views the study on the DICOM grid Multi-Mode *Viewing Environment*. The Multi-Mode *Viewing Environment* may either utilize the SkyCanvas™ full application DICOM viewing workstation based ClearCanvas, The SkyCanvas™ web based browser that runs in any HTML5 compatible browser such as Firefox, Safari, Chrome, or IE9.



Pricing

DICOM Grid offers revolutionary subscription pricing that includes no capital expense, a low monthly subscription and a onetime installation fee. Once installed the customer is enabled send their studies to the grid where they will be securely archived for future clinical care and to meet all of the customer’s requirements for regulatory compliance until the customer requests that it be deleted.

The fee is structured to compete favorably with current “dead archive” solutions (such as offsite hosted storage) that have no real universal access capability or manual methods such as CDs and DVDs. The monthly fee is also roughly equivalent to the monthly maintenance on a PACS 1.0 solution.

Please contact DICOM Grid for a price quotation at info@dicomgrid.com



ImageCare™ Service Details

Component	Description
<p>ImageCare Communication Fabric</p>	<p>The Access Appliance is a combination of proprietary, patented DICOM grid software that can be configured with or without a HW appliance located on site that uploads studies from an existing PACS or imaging modalities, e.g., ultrasound machines, CT scans, MRI devices, etc.</p> <p>Distributed Grid, The fabric will manage multiple copies of the studies on local area network, local workstations, routing or staging devices as needed to accommodate the use case required to optimize the capability at the point of care</p> <p>The Viewing Environment, implemented as either or both a EZview™ thin (zero footprint) web browser based viewer, or SkyCanvas™ “thick client” full application workstation that provides the physician with multiple functions and capabilities, including:</p>
<p>Cloud based Central Index</p>	<p>The Central Index is cloud based software and server complex that provides control, communications, and management functions, including:</p> <ol style="list-style-type: none"> 1) A centralized database for <i>all</i> metadata on the grid 2) Centralized log and audit trail for <i>all</i> transactions executed on the grid, e.g., imaging study transfers 3) Centralized registry for <i>all</i> physicians, image producers, and <i>all</i> other “nodes” on the grid, e.g., Access Appliance, storage systems 4) Centralized digital “switchboard” that controls <i>all</i> communications between all of the viewing and distribution on the grid 5) A reporting database that provides the basis for all billing and backend grid administrative and management functions
<p>Cloud Based Data Management and Distribution</p>	<p>The Cloud Based Data Management and Distribution:</p> <ol style="list-style-type: none"> 1) To ensure that the imaging study received at the storage system is identical to the one harvested at the point of the study’s origin 2) Upon request from the Central Index, retrieve the imaging study from the storage system and re-verify its’ efficacy, prior to sending it via the grid to its’ intended destination 3) Provide a failover redundancy for the other co-located Storage Nodes in the event of a software or hardware failure 4) Provide the ability to serve up images for remote web based viewing.