

Transforming Radiology Across Borders



RADSpa

Next Generation Radiology Workflow on the Cloud

Radiology with an Edge

RADSpa

Breaking out from the boundaries of Radiology Information Systems (RIS) and Picture Archiving and Communication System (PACS), Telerad Tech has developed a unique and revolutionary platform of Radiology Workflow Intelligence System called RADSpa.

RADSpa is a next generation Artificial Intelligence (AI) Enabled Radiology Workflow Platform with an integrated RIS-PACS. It is scalable and is designed for meeting the requirements of Teleradiology Service Providers, Hospitals, Imaging Centers and Mobile Imaging providers of all size globally. RADSpa is available in both – on-premise and cloud deployment models.

Providing new opportunities for Teleradiology

RADSpa is a product of choice for many teleradiology companies as its features meets the unique requirements of Tele-reporting services, such as:



Orchestrated Workflow Management feature helps error-free assignment of the studies to designated radiologists



Enables hassle free integration with any existing PACS, and thus doesn't require any major overhaul of the current systems



In-built QA and peer review module facilitates collaboration as per ACR grades



Multi-read Workflow management for prelim and final reads

RADSpa - Designed to Improve Radiology Efficiency

RADSpa helps you to:



Jump-start Teleradiology/Radiology Services with no additional IT investments

Earn higher Radiologist Productivity and More Profitable Radiology Practice



Create potential for new and increased revenue streams like Telereporting and Second Opinion Services

Reduce Turn-Around-Time (TAT) with integrated AI-enabled RIS-PACS workflow



Have patient's complete imaging record on your fingertips

Peace of mind with 24X7 technical support



Securely acquire, upload, view, diagnose, annotate, report and archive studies

Save costs and increases your radiology productivity by 30-50%



Connect and collaborate with your fellow practitioners

Share patient studies between facilities fast and securely





Efficacy for One and All

RADSpa is suited for Radiology and Teleradiology reporting needs of virtually all kinds of customers, including:



- Independent Radiologists providing Onsite Read and Telereporting Services
- Radiology and Teleradiology Service Providers
- Single-site Hospitals and standalone Medical Imaging Centers
- Medical Imaging Chain dispersed across geography
- Multi-site, Multi-geography Hospitals
- Medical Colleges, Universities and Research Institutes
- Chain of Primary, Community, District and Sub-divisional Government Hospitals
- Mobile Diagnostic Units
- Single clinics in Cardiology, Oncology, Mammography, Orthopedics and Chiropractic
- Original Equipment Manufacturers

Supported Modalities

RADSpa supports all standard modality machines like X-Ray, Ultrasound, Computed Tomography (CT), Positron Emission Tomography (PET), Magnetic Resonance Imaging (MRI) and Mammogram



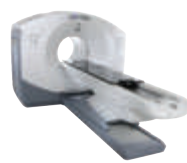
X-Ray



Ultrasound



Computed Tomography (CT)



Positron Emission Tomography (PET)

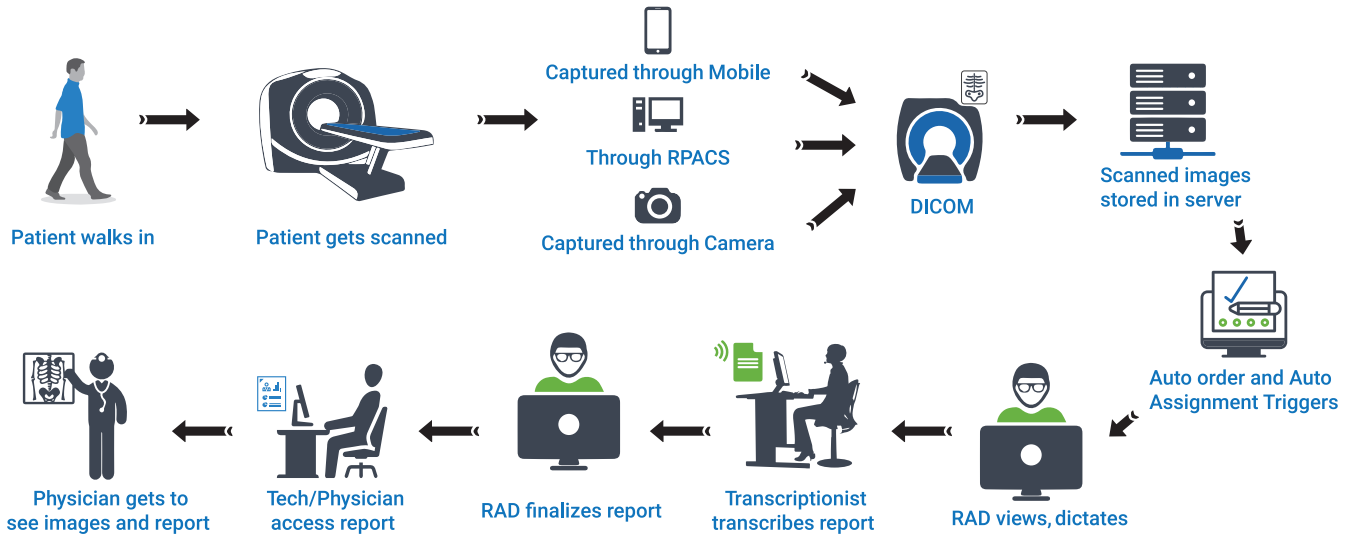


Magnetic Resonance Imaging (MRI)



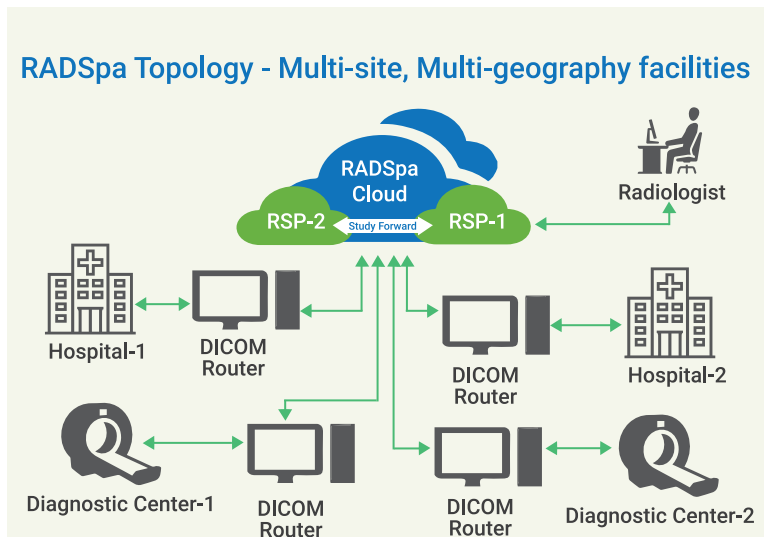
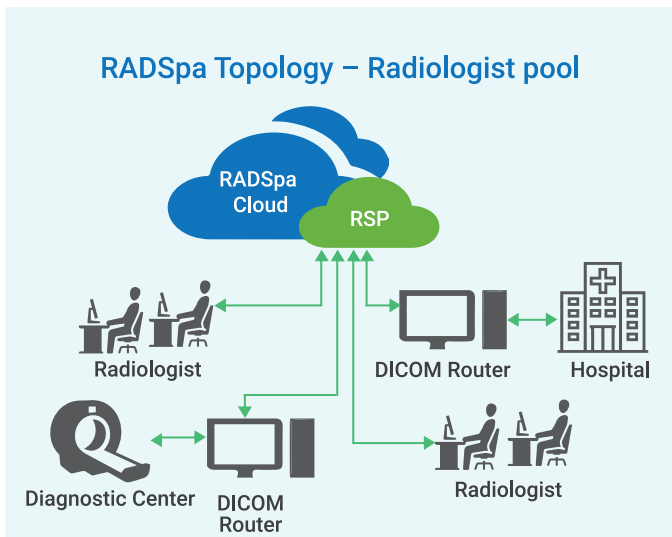
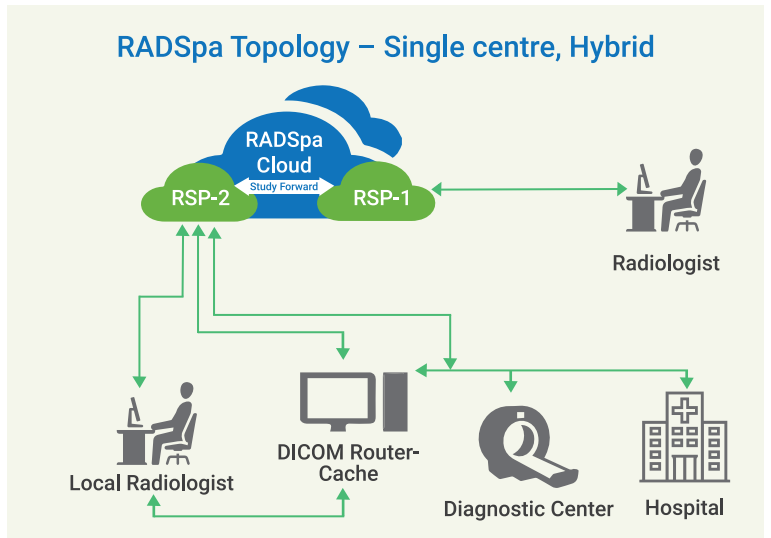
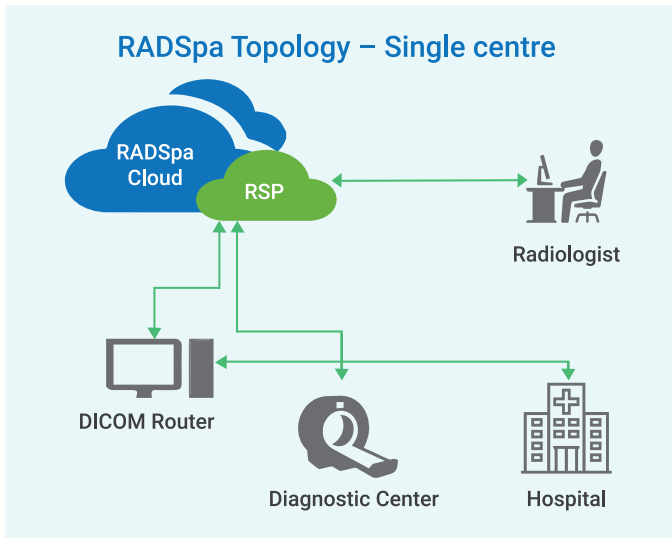
Mammogram

RADSpa Workflow



Topologies

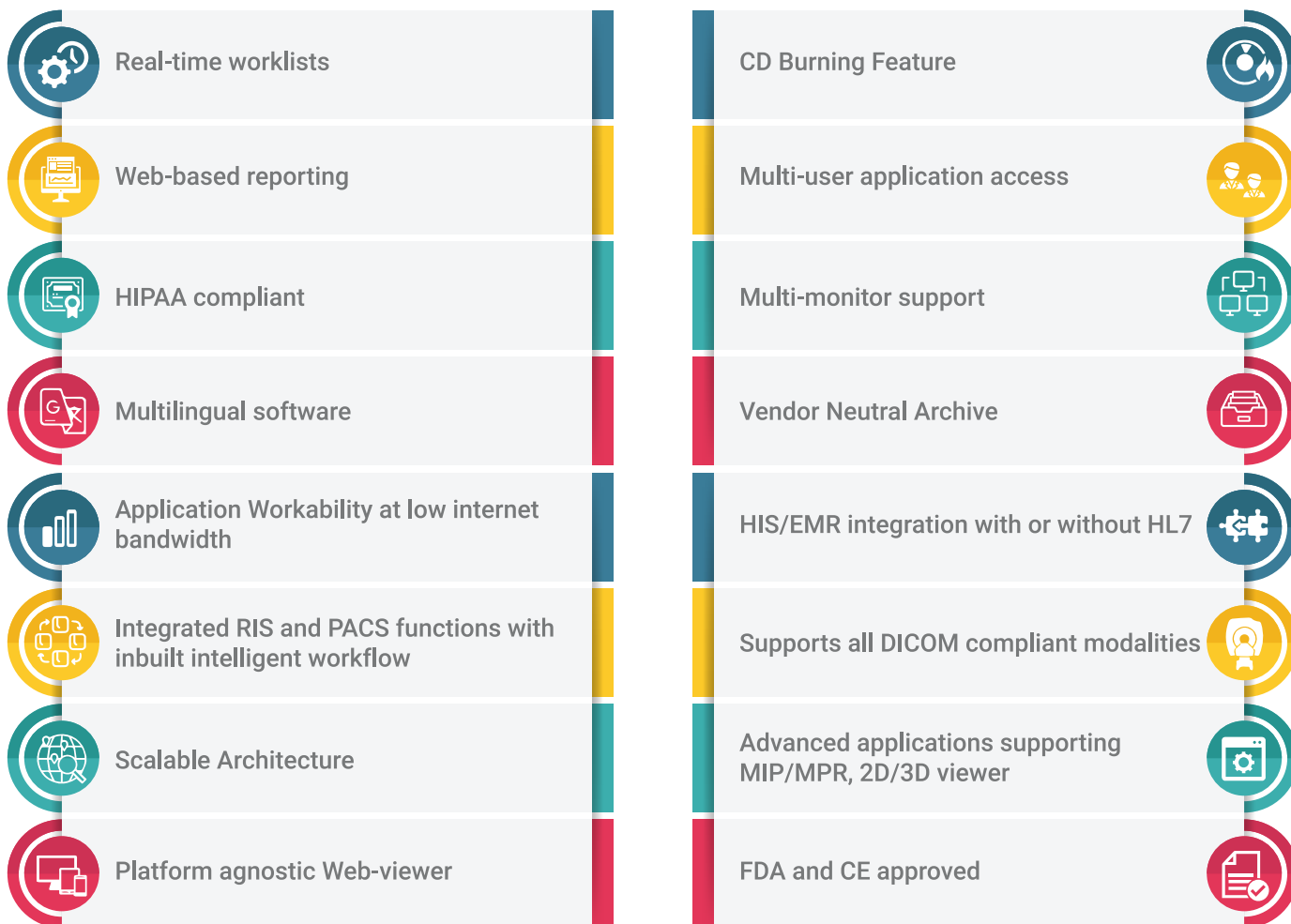
RADSpa is suited for single-site centre to multi-site, multi-geography health facilities including Mobile Diagnostic Units. Customized topologies are prepared for each deployment. Few common deployment topologies are presented below:



Smart Features

RADSpa is a unified platform which is not just scalable but also seamless and intuitive. It offers features which facilitates integrated workflows, better diagnosis and fast distribution of results. Fully compliant, with various regulations and standards, it brings the power together to each step of data-image continuum.

Key Features of RADSpa RIS- PACS Workflow



2D Viewer Features

- View multiple images of multiple studies concurrently
- User can set his/her own Hanging Protocol for respective modality
- User can customize his/her layout in the viewport using custom feature
- Option to view entire series of images in single view port using Stack study option
- Can embed key images in the report using “Clip images to Report” feature
- Easy configuration for enabling/disabling of the multi-monitors
- Non-DICOM/secondary capture image displayed as a separate series
- Viewer synced with Reporting to avoid interpretation errors
- Supports DICOM images of all standard modalities
- Designed to optimize system resource and load images rapidly



Advanced 3D DICOM Viewer Features

- Minimum Intensity Projection (Min IP)
- Maximum Intensity Projection (Max IP)
- Multi Planar Reconstruction (MPR)
- Curved Planar Reconstruction (CPR)
- Multi-modality fusion
- Multi-volume fusion
- Multi-modality 2D viewer
- Sculpting tools
- User customizable color presets



RADSpa OneTouch

RADSpa OneTouch is a Clinical Alert App for the Physicians. It alerts physician on a smartphone once the case is signed off by the radiologist. By tapping the alert notification on the mobile screen, a Physician can access the report in full-screen mode with associated images.



Self-Configurable Real-Time Performance Dashboards

RADSpa's analytics gives snapshot of analytical information that helps medical imaging facilities to optimally utilise their resources. It presents complex data in the form of simple and actionable visual reports. Performance reports can be generated on multiple parameters and for variety of usage. Some common ones include:

1. Report by Study type
2. Report by Order type (Emergency, Electives...)
3. Report by Modality type
4. Productivity Report



Productivity



Efficiency



Quality

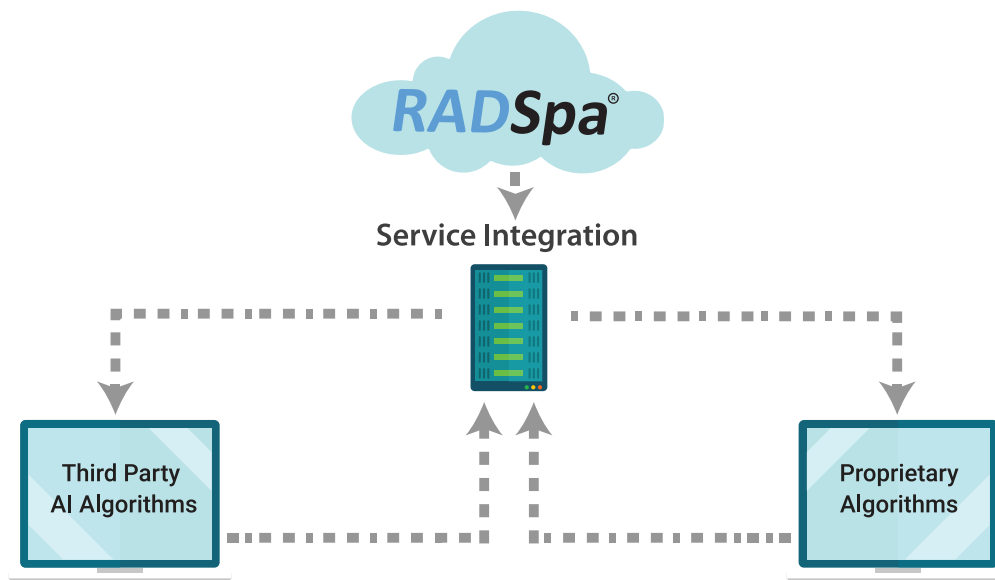
AI-Capabilities

AI-Powered Algorithms in RADSpa Changes Interactions in Patient Care










Increasing incidence of lifestyle diseases requires more frequent imaging and more complex scans at much higher resolutions than was needed earlier. All this along with more slices per scan and an acute shortage of radiologists is the perfect recipe for delays in interpretation and longer wait times.

That said, a big challenge that radiologists face is how to optimize the results of the efforts they put in with zero compromises on levels of accuracy in their diagnosis. The only way out of this situation is the adoption of smart software that uses Artificial Intelligence (AI). That is precisely what we have managed to do at Telerad Tech by incorporating AI features in RADSpa.

RADSpa has access to Telerad Tech's in-house AI algorithms which integrates seamlessly with its RIS-PACS. Besides this, AI tools of any 3rd party can also be very easily integrated with RADSpa workflow to give a unified AI experience to the user. These AI tools, when executed over the scanned images, empowers Radiologists to provide increased, consistently accurate and faster diagnosis.



Algorithms

- | | | | | |
|---|---|---|--|--|
| 
Breast Cancer | 
Brain Bleeds | 
Chest X-Rays | 
Wrist Fractures | 
Fatty Liver |
| 
Coronary Calcium Scoring | 
Emphysema | 
Pulmonary Artery | 
Bone Density | |

Value Propositions

- Incidental Finding
- Priority Finding
- Mass Screening
- Structured Reporting
- Automated QA
- Increased Productivity
- Enhanced Accuracy
- Improved Consistency
- Affordable Care

Key Benefits

Using RADSpa means improved medical operational efficiency, thereby enhancing the client base which in turn enables hospitals and other healthcare service providers to earn higher profits.

Benefits of replacing your present workflow with RADSpa are:



- ◆ Better and enhanced patient care
- ◆ Efficient archiving of medical images
- ◆ Improved Turn Around Time (TAT) in reporting investigations
- ◆ Improved productivity of radiologists, technicians and physicians
- ◆ Advanced management tools and dashboard
- ◆ Reduction of human intervention in workflow processes, thus reducing human errors
- ◆ Monitoring and tracking of users
- ◆ Reduced risk of data theft
- ◆ Access to integrated information and standardized knowledge repositories

Training & Round-the-Clock Software Support

Telerad Tech provides free training to all its partners and esteemed clients. Trainings are organized using online as well as on-site mode. Regular webinars are conducted for refresher trainings and also whenever there is any feature enhancement and new developments. Telerad Tech is one of the few global RIS-PACS providers which have their own dedicated technical support unit through which 24X7 support is provided to all our patrons.



Compliance/ Certifications

We adhere to all necessary compliances and have the accreditations required to ensure that our product is of global standards. RADSpa's is FDA approved, CE certified and HIPAA Compliant. It also conforms to ISO 13485:2016 requirements.



Security Framework

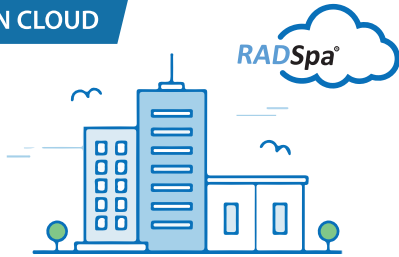
RADSpa's security features are designed to ensure that you meet all applicable legal and regulatory information security terms. These features include TLS-based transmission with TCP/IP and SHA-256 hashing algorithm for data encryption and security. All HL7-standard versions are followed for Integration whereby data is secured as per HIPAA protocols. Along with this, RADSpa's Patient Security Framework (PSF) gateway allows patient data transmission in a highly secured manner.



Flexible Licensing and Deployment Models

Telerad Tech offers flexible and customizable licensing models suiting specific requirement of users. The licensing models are:

ON CLOUD



RADSpa Cloud (SaaS)

A user can deploy the software on the go. Users are charged a one-time setup cost and a nominal monthly rental. With a nominal monthly rental pack, a user can upload fixed number of studies free of charge.

ON PREMISE

Clients having their own Servers or Data Centers can pick-up one of the following licensing models for on-premise deployment of the software:

RPACS



The RPACS version is best suited for single-site facility having a monthly caseload of up to 1000 studies. Standard RPACS is available for up to 3 types of modalities

Standard



This is best suited for single-site facility, including a single mobile diagnostic unit with a monthly caseload from 1000 studies to 2500 studies. Standard Licensing Model available for 4-5 types of modalities

Professional



This is best suited for facilities having 2-3 sites with a monthly caseload of 1000 studies. Professional Edition is available for 6-10 types of modalities

Enterprise



This is best suited for facilities having more than 3 sites and reporting more than 1000 studies a month across all types of modalities



OEM PACS

OEM companies interested in selling RIS-PACS enabled modality machines can go for our OEM PACS.



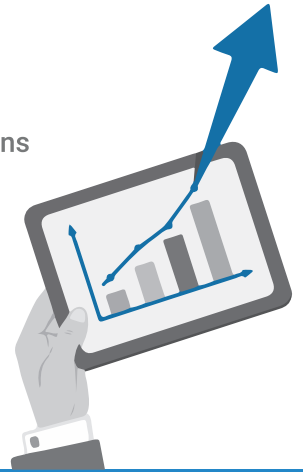
Ultimate Edition

RADSpa Ultimate is best suited for large-scale state-wide or country-wide deployments. When connected to a Central Hub, RADSpa Ultimate can process millions of studies per year.

Value Propositions

RADSpa's Positive Impact on Revenue & Business

- Faster breakeven of investments through optimum utilization of modalities, technicians and radiologists
- Additional revenue streams through Teleradiology and Second Opinion Services
- Additional revenue through utilisation of Pool of Radiologists
- Higher productivity through utilisation of our web-based viewers which enables radiologists to report studies on the Go.



Savings and Value for Money



- No need for additional software's as RADSpa has DICOM compatibility which connects seamlessly with your platforms/applications
- Healthcare institutions & imaging centers with RADSpa can have regular access to Emergency Radiologists' services
- Healthcare institutions and imaging centers with RADSpa can store data from all modalities on one platform and that saves IT costs

Positive Impact on Productivity

- RADSpa's intelligent workflow orchestration improves productivity of Radiologist
- RADSpa enables imaging center to get images read with minimal TATs by using services of professional radiologists at geographically distant locations
- Radiologists can read images on the go



Improved Patient Outcome

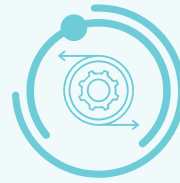


- 24x7 availability of professional read services using RADSpa enables improved patient outcome
- Access to patient's medical history through the inbuilt patient portal feature, enabling better patient care
- Triaging feasibility because of lower TATs and access to patients' medical history

RADSpa Value for CXOs



RADSpa's integrated RIS-PACS liberates CXOs from the hassles of evaluating and buying multiple software for radiology workflows.



It can be easily integrated with existing standard EHRs, HISSs, and EMRs and deployed in virtually no time at all, thereby helping in cost control.



MIS dashboard gives an overview of various modalities' deployment and usage, and productivity of in-house and consulting radiologists. This is an important management tool.



Data security and QA features helps healthcare establishments to fulfill compliances such as HIPAA, GDPR and practice for ACR in USA and NABH in India.



Can be easily scaled up at a reasonable cost with a centralized dashboard for workflow management.



Telerad Tech offers round-the-clock technical support for RADSpa and takes care of troubleshooting.

RADSpa Value for Original Equipment Manufacturers

- On integrating RADSpa with your modality, you get access to large markets where there is a scarcity of radiologists.
- Gives your modalities the strategic competitive edge with integrated RIS-PACS
- We offer you the benefit of white labeling RADSpa, so there is a sync with your branding strategy
- Faster break-even of investments and additional revenue streams for your customers
- With in-built RADSpa RIS-PACS, your customers benefit by way of reduced costs and increased productivity by optimizing the utilization of radiology assets

For demo, purchase or distribution enquiries, please contact:



Telerad Tech Pvt. Ltd.

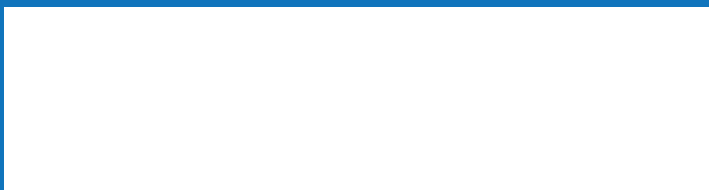
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Telerad Tech has been founded by a group of technology innovators and eminent radiologists with the focus to develop products and solutions to address the gaps and needs of Healthcare IT in general, and radiology automation systems in particular. Today, it is amongst the market leaders in providing integrated RIS-PACS software solutions for tele-radiology, medical imaging centers, and hospitals of all sizes globally. Telerad Tech has the best mix of domain understanding and technology process to implement technology solutions to solve the radiology workflow problems. The products are developed, tested and piloted in the radiology ecosystem and hence equipped with providing the most efficient, radiologist friendly workflow.

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