Revolutionizing Radiology Beyond Boundaries

Advanced Cloud-Based
Radiology Workflow for the Future

Innovative Radiology Solutions

Breaking free from the limitations of traditional Radiology Information Systems (RIS) and Picture Archiving and Communication Systems (PACS), Manantia AI has introduced a groundbreaking Radiology Workflow Intelligence Platform.

Manantia AI is an advanced, AI-powered Radiology Workflow Solution with a seamlessly integrated RIS-PACS. It is highly scalable and tailored to meet the diverse needs of Teleradiology Service Providers, Hospitals, Imaging Centers, and Mobile Imaging Solutions worldwide. Available in both cloud and on-premise deployment models, Manantia AI ensures flexibility and efficiency for all healthcare providers.

Unlocking New Possibilities in Teleradiology

Manantia AI is the preferred choice for teleradiology providers, offering tailored features that streamline tele-reporting services, including:

Intelligent Workflow Management for seamless and error-free assignment of studies to designated radiologists.

Effortless PACS Integration, eliminating the need for significant system overhauls

Built-in QA and Peer Review Module to enhance collaboration and maintain ACR-grade quality standards.

Multi-Read Workflow Management, supporting both preliminary and final reads for improved accuracy

Manentia AI is Unlocking New Possibilities in Teleradiology

Launch Teleradiology/Radiology Services effortlessly without extra IT costs.

Enhance Radiologist Efficiency and Maximize Profitability in Radiology Practice.

Unlock new revenue opportunities through Telereporting and Second Opinion Services.

Accelerate Turnaround Time (TAT) with AI-powered RIS-PACS integration.

Access a patient's full imaging history instantly at your fingertips.

Enjoy uninterrupted operations with 24/7 technical support.

Safely capture, upload, review, diagnose, annotate, generate reports, and store studies.

Cut costs while boosting radiology productivity by 30-50%.

Seamlessly connect and collaborate with your peers.

Quickly and securely share patient studies across facilities.

Efficacy for One and All

Manantia AI is designed to meet the radiology and teleradiology reporting needs of a wide range of clients, including:

- Independent radiologists offering onsite reporting and remote tele-reporting services
- Radiology and teleradiology solution providers
- Standalone hospitals and medical imaging centers
- Expansive medical imaging networks operating across multiple locations
- Multi-facility hospitals spanning different regions
- Medical universities, research institutes, and academic centers
- Networks of primary, community, district, and sub-divisional government hospitals
- Mobile diagnostic units for remote healthcare access
- Specialized clinics in cardiology, oncology, mammography, orthopedics, and chiropractic
- Manufacturers of medical imaging equipment and diagnostic systems

Compatible Modalities

Manantia AI supports all major imaging modalities, including X-Ray, Ultrasound, Computed Tomography (CT), Positron Emission Tomography (PET), Magnetic Resonance Imaging (MRI), and Mammography.

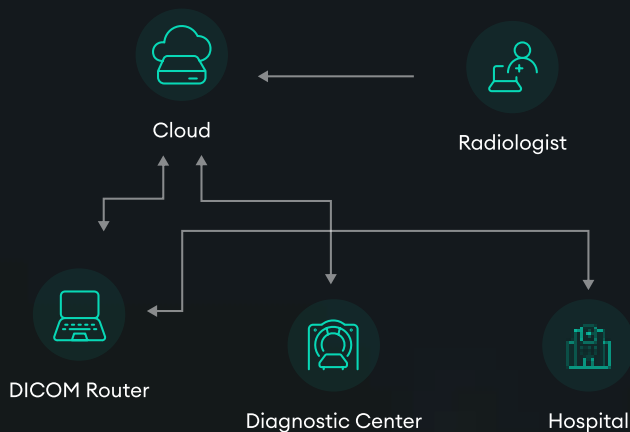| X-Ray | Ultrasound | Computed Tomography (CT) | Positron Emission Tomography (PET) | Magnetic Resonance Imaging (MRI) | Mammogram |

Manantia AI Workflow

Patient Arrival → Patient gets scanned → Image Capture → DICOM Conversion → Images stored in serveer → Auto order and auto assignment triggers

RAD Views, Dictates → Report Transcription → Finalization report → Report Access → Physician Review
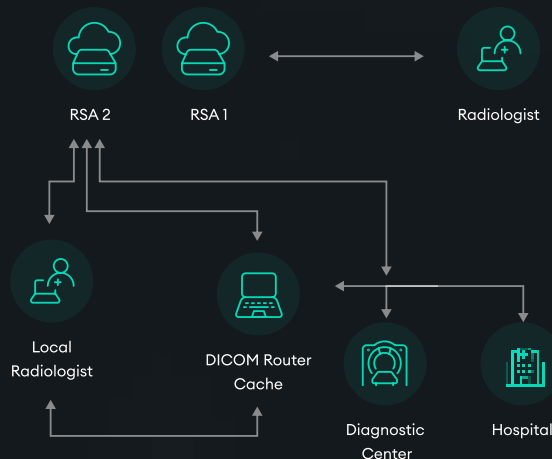
Deployment Topologies

Manantia AI is designed to support a wide range of healthcare facilities, from single-site centers to multi-location, multi-regional health networks, including mobile diagnostic units. Each deployment is tailored with a customized topology to meet specific operational needs. Below are some common deployment models:
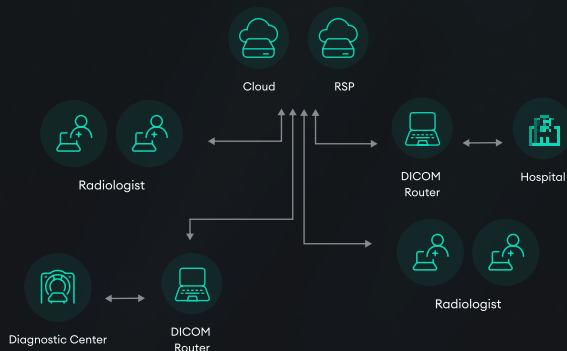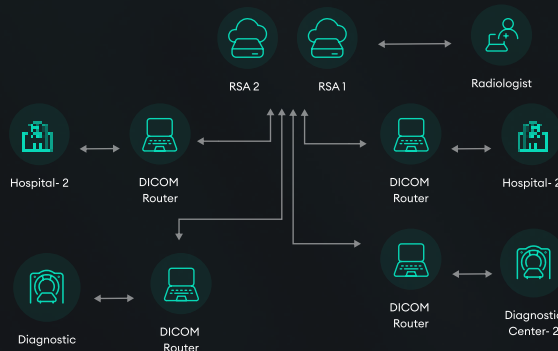
Single Centre

Cloud

Radiologist

DICOM Router

Diagnostic Center

Hospital

Single Centre, Hybrid

RSA 2

RSA 1

Radiologist

Local Radiologist

DICOM Router Cache

Diagnostic Center

Hospital

Radiologist Pool

Cloud

RSP

Radiologist

DICOM Router

Hospital

Diagnostic Center

DICOM Router

Radiologist

Multi-Site, Multi - geography facilities

RSA 2

RSA 1

Radiologist

Hospital- 2

DICOM Router

DICOM Router

Hospital- 2

Diagnostic Center- 1

DICOM Router
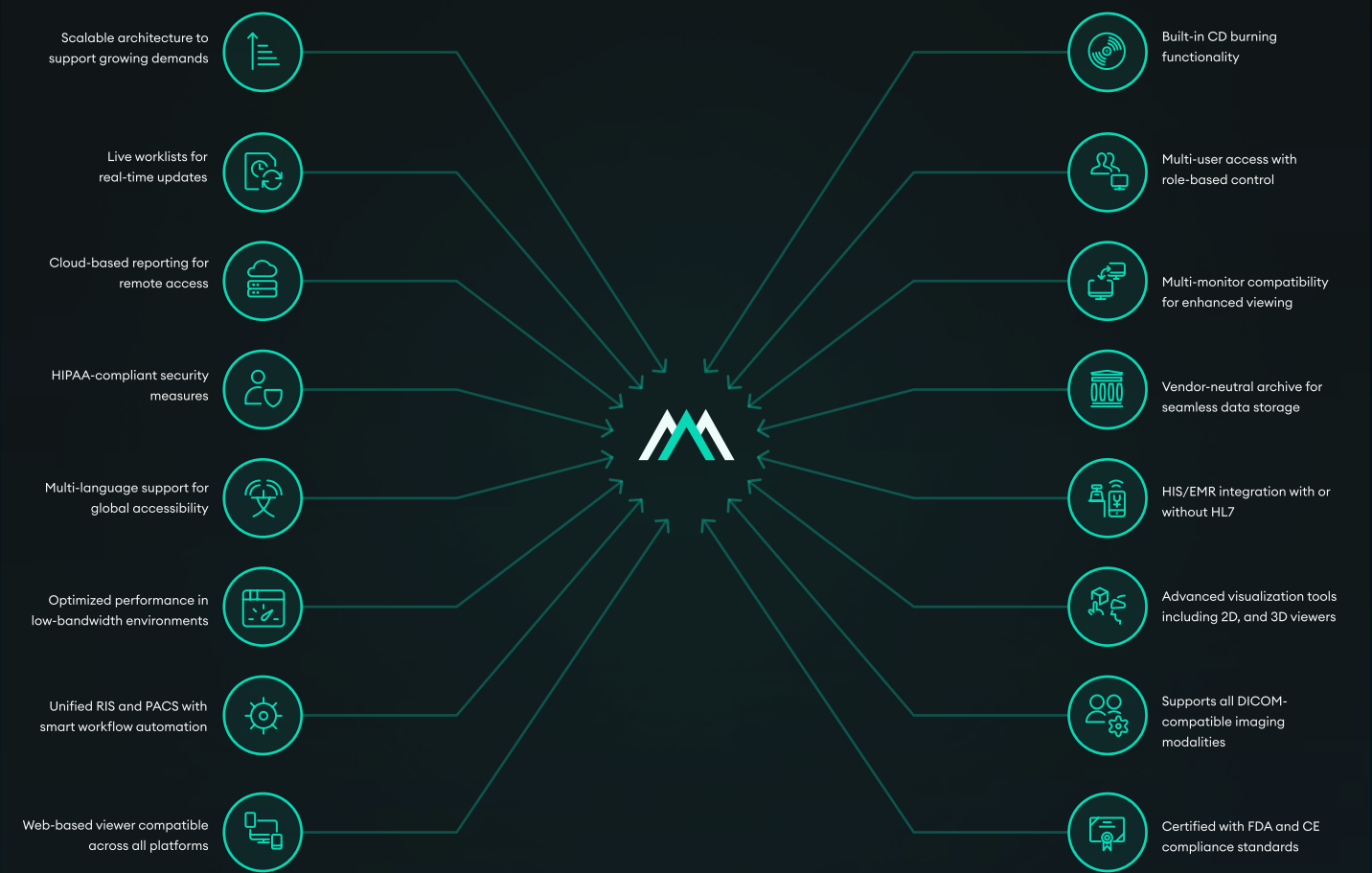
DICOM Router

Diagnostic Center- 2

Intelligent Capabilities

Manantia AI is a comprehensive platform that is not only scalable but also intuitive and seamlessly integrated. It enhances workflow efficiency, enables precise diagnostics, and ensures rapid result distribution. Fully compliant with industry regulations and standards, it empowers every stage of the data-to-image lifecycle.

Key Features of Manantia AI RIS-PACS Workflow

Scalable architecture to support growing demands

Live worklists for real-time updates

Cloud-based reporting for remote access

HIPAA-compliant security measures

Multi-language support for global accessibility

Optimized performance in low-bandwidth environments

Unified RIS and PACS with smart workflow automation

Web-based viewer compatible across all platforms

Built-in CD burning functionality

Multi-user access with role-based control

Multi-monitor compatibility for enhanced viewing

Vendor-neutral archive for seamless data storage

HIS/EMR integration with or without HL7

Advanced visualization tools including 2D, and 3D viewers

Supports all DICOM-compatible imaging modalities

Certified with FDA and CE compliance standards

2D Viewer Capabilities

- Simultaneously view multiple images from different studies.
- Personalize Hanging Protocols for each imaging modality.
- Customize viewport layouts with flexible configuration options.
- Stack study mode enables viewing an entire image series in a single viewport.
- Embed key images directly into reports with the "Clip Images to Report" feature.
- Seamless multi-monitor support with easy enable/disable settings.
- Displays Non-DICOM/secondary capture images as a separate series.
- Synchronized with reporting to minimize interpretation errors.
- Compatible with DICOM images across all standard modalities.
- Optimized for efficient system performance and fast image loading.

Advanced 3D DICOM Viewer Capabilities

- Min IP (Minimum Intensity Projection) for enhanced visualization.
- Max IP (Maximum Intensity Projection) to highlight high-intensity areas.
- Multi-Planar Reconstruction (MPR) for cross-sectional imaging.
- Curved Planar Reconstruction (CPR) for detailed anatomical views.
- Multi-Modality Fusion for comprehensive imaging comparisons.
- Multi-Volume Fusion to merge datasets for deeper analysis.
- Integrated 2D Viewer supporting multiple imaging modalities.
- Sculpting Tools for precise data manipulation.
- Customizable Color Presets to enhance visualization based on user preference.

Manentia AI

Manentia AI is a clinical alert app designed for physicians, ensuring real-time notifications. Once a radiologist signs off a case, the physician receives an instant alert on their smartphone.
With a single tap on the notification, the physician can view the full report in a dedicated fullscreen mode, along with associated images, enabling quick and informed decision-making.

Real-Time, Self-Configurable Performance Dashboards

Manentia's advanced analytics provides a concise snapshot of critical data, enabling medical imaging facilities to maximize resource efficiency. By simplifying complex datasets into clear, actionable visual reports, it streamlines decision-making and enhances operational performance.

- Study-Type Analysis – Insights based on different study categories
- Order-Type Tracking – Monitoring emergency vs. elective cases
- Modality Utilization Reports – Evaluation of imaging equipment usage
- Productivity Metrics – Assessing efficiency and workload distribution

Productivity – Maximizing output with minimal delays

Efficiency – Optimizing time and resources.

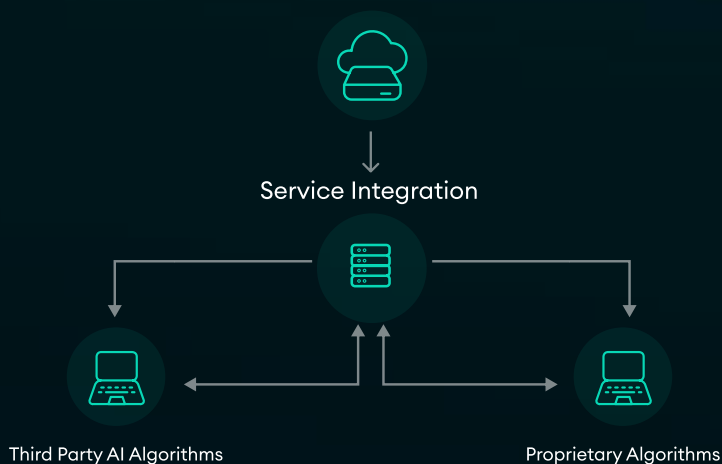Quality – Ensuring precise and accurate results.

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AI-Powered Algorithms in Manentia AI Transform Patient Care

With the rising prevalence of lifestyle diseases, the demand for frequent, high-resolution imaging has surged, leading to more complex scans and an increasing workload for radiologists. This, coupled with a shortage of specialists, results in delays and longer wait times for diagnosis.

To address this challenge without compromising accuracy, the integration of Artificial Intelligence (AI) is essential. At Telerad Tech, we have embedded AI-driven capabilities into Manentia AI, ensuring seamless automation and precision in radiology workflows.

Manentia AI leverages Telerad Tech's proprietary AI algorithms while also allowing seamless integration with third-party AI tools. These intelligent solutions enhance image analysis, enabling radiologists to deliver faster, more accurate, and consistently reliable diagnoses.

Service Integration

Third Party AI Algorithms   Proprietary Algorithms

AI Algorithms in Manentia AI

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

Value Propositions

- Incidental Finding
- Structured Reporting
- Enhanced Accuracy

- Priority Finding
- Automated QA
- Improved Consistency

- Mass Screening
- Increased Productivity
- Affordable Care

Key Benefits

Switching to Manentia AI enhances medical operational efficiency, expanding the client base and enabling hospitals and healthcare providers to achieve higher profitability.

Why Choose Manentia AI?

- Enhanced Patient Care – Faster and more accurate diagnosis.
- Efficient Medical Image Archiving – Streamlined storage and easy retrieval.
- Reduced Turnaround Time (TAT) – Quicker reporting and decision-making.
- Increased Productivity – Optimized workflow for radiologists, technicians, and physicians.
- Advanced Management & Dashboard Tools – Improved operational insights.
- Minimized Human Errors – Automated processes reduce manual intervention.
- User Monitoring & Tracking – Enhanced transparency and accountability.
- Robust Data Security – Reduced risk of data theft.
- Centralized Knowledge Access – Seamless integration with standardized information repositories

Training & 24/7 Software Support

Manentia AI offers free training for all partners and valued clients, ensuring seamless adoption and proficiency

- Training sessions are available both online and on-site for convenience.
- Regular webinars are conducted for refresher courses, feature updates, and new developments.
- As one of the few global RIS-PACS providers with a dedicated technical support team, we provide round-the-clock (24/7) assistance to ensure uninterrupted service.

Compliance / Certifications

Switching to Manentia AI enhances medical operational efficiency, expanding the client base and enabling hospitals and healthcare providers to achieve higher profitability. We strictly adhere to all regulatory compliances and hold accreditations that ensure our product meets global standards.

CDSCO/ICMR - Medical Device Class B approval for testing
Licence No. : MFG/TL/MD/2023/000233.

HIPAA Compliance

CE - Certificate of Compliance (Provisional)
Certificate No.: CE-1984

ISO/IEC 27001:2013
Certificate Number: 2021120956

ISO 132485: 2016
Certificate Number: 2021120955

➡ **CE – Certificate by EU MDR**   ➡ **FDA Approval for CT Lung Cancer Analysis**

Security Framework

Manentia AI's security infrastructure is designed to comply with all legal and regulatory information security standards. It incorporates TLS-based transmission with TCP/IP and SHA-256 hashing for robust data encryption and protection.

We adhere to all HL7-standard versions for seamless integration while ensuring data security in line with HIPAA protocols. Additionally, our Patient Security Framework (PSF) gateway enables highly secure transmission of patient data, safeguarding sensitive medical information.

Flexible Licensing and Deployment Models

Manentia AI provides versatile and customizable licensing models tailored to meet the unique needs of users. The available licensing options include:

01: Manentia AI Cloud (SaaS)

- Enables quick and hassle-free deployment.
- Users pay a one-time setup fee along with an affordable monthly rental.
- Each monthly plan includes a fixed number of free study uploads.

02: On-Premise Deployment

Organizations with their own servers or data centers can choose from various licensing models designed for on-premise implementation of the software.

Manentia RPACS

Designed for single-site facilities handling up to 1,000 studies per month. The standard version supports up to three modality types.

Manentia Standard

Ideal for single-site facilities, including mobile diagnostic units, managing 1,000 to 2,500 studies per month. This model supports 4-5 modality types.

Manentia Professional

Best suited for facilities with 2-3 locations, processing up to 1,000 studies per site per month. Available for 6-10 modality types.

Manentia Enterprise

Tailored for multi-site facilities with over 3 locations, handling more than 1,000 studies per month across all modality types.

Manentia OEM PACS

Designed for OEM companies looking to integrate RIS-PACS-enabled modality machines into their offerings.

Ultimate Edition

Manentia AI Ultimate is ideal for large-scale state-wide or nationwide implementations. When integrated with a Central Hub, it efficiently processes millions of studies annually.

Value Propositions

Manentia AI's Positive Impact on Revenue & Business

- Accelerated ROI through optimal utilization of modalities, technicians, and radiologists.
- New revenue opportunities with Teleradiology and Second Opinion Services.
- Increased earnings by leveraging a network of radiologists.
- Enhanced productivity with web-based viewers, enabling radiologists to report studies anytime, anywhere.

Savings and Value for Money

- Seamless Integration: Manentia AI is DICOM-compatible, ensuring effortless connectivity with existing platforms and applications–no additional software required.
- 24/7 Emergency Radiology Access: Healthcare institutions and imaging centers using Manentia AI can regularly access Emergency Radiologists' services when needed.
- Centralized Data Storage: Store data from all modalities on a single platform, reducing IT costs and enhancing efficiency.

Positive Impact on Productivity

- Enhanced Productivity: Manentia AI's intelligent workflow orchestration optimizes radiologists' efficiency.
- Faster Turnaround Time: Imaging centers can achieve minimal TATs by leveraging professional radiologists from remote locations.
- Anytime, Anywhere Reporting: Radiologists can analyze images on the go, ensuring flexibility and quick diagnostics.

Improved Patient Outcome

- Round-the-Clock Expertise: 24/7 access to professional read services with Manentia AI enhances patient outcomes.
- Comprehensive Patient Insights: The built-in patient portal provides seamless access to medical history, ensuring better care.
- Efficient Triaging: Faster turnaround times and access to patient records enable prioritized and effective diagnosis.

Manentia AI: Strategic Value for CXOs

24/7 Support & Troubleshooting:
Manentia AI offers dedicated, round-the-clock technical support to ensure uninterrupted operations.

All-in-One Radiology Solution:
Manentia AI's integrated RIS-PACS eliminates the need for multiple radiology workflow software, simplifying decision-making for CXOs.

Scalability & Cost Efficiency:
Designed for effortless scaling with a centralized dashboard for workflow optimization at a reasonable cost.

Seamless Integration
Easily integrates with standard EHRs, HISs, and EMRs, ensuring quick deployment and cost efficiency.

Regulatory Compliance & Security:
Robust data security and QA features ensure compliance with HIPAA, GDPR, ACR (USA), and NABH (India).

Advanced Management Insights:
The MIS dashboard provides a real-time overview of modality usage, radiologist productivity, and operational efficiency.

Manentia AI Value for Original Equipment Manufacturers (OEMs)

- Expanded Market Reach: Integrating Manentia AI with your modalities grants access to regions facing a shortage of radiologists.
- Competitive Advantage: Enhance your product offering with a built-in RIS-PACS, giving your modalities a strategic edge.
- White Labeling for Brand Consistency: We offer white-labeling options, allowing seamless integration with your brand identity.
- Faster ROI & Additional Revenue Streams: Accelerate investment recovery while providing new revenue opportunities for your customers.
- Cost Efficiency & Productivity Boost: Embedded RIS-PACS reduces operational costs and enhances productivity by optimizing radiology asset utilization.

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