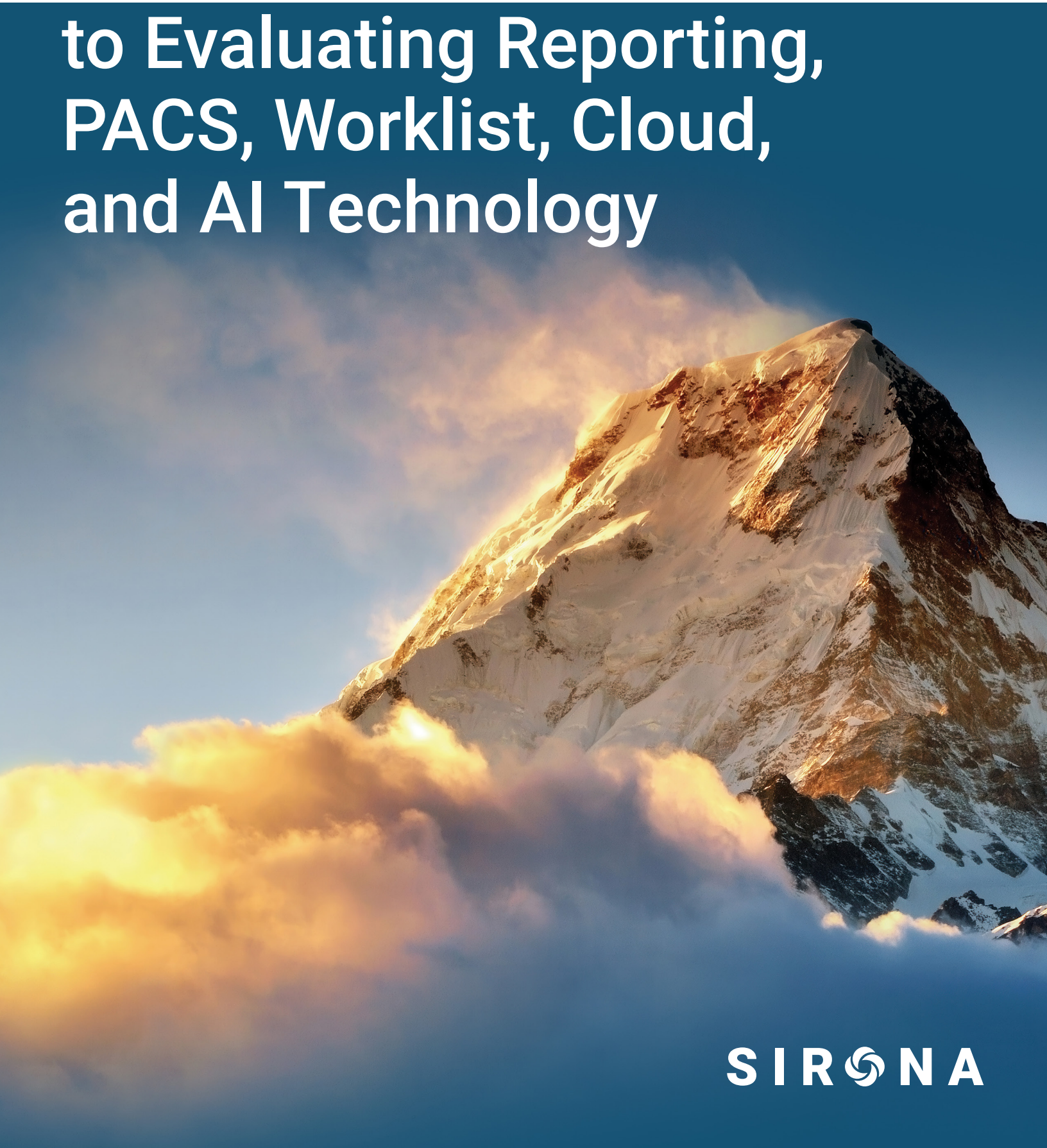
RSNA 2025

Your Guide

to Evaluating Reporting, PACS, Worklist, Cloud, and AI Technology



SIRONA

The right foundation determines your ability to scale and innovate.

When evaluating vendors, remember four principles:

1. **Ask the architecture questions**
   True cloud-native systems have no hardware dependencies.
2. **Understand where AI fits in**
   For AI to be valuable, it should be embedded within the workflow, not adjacent to it.
3. **Follow the economics**
   Cloud-native delivers predictable, operational costs — not capital cycles.
4. **Demand proof**
   Look for systems already trusted in production, supporting full-shift reads and measurable ROI.

Step 1:

Understand True Cloud Nativity and the Economics of Infrastructure

The Benefits of True Cloud Nativity

Providing radiology services today requires infrastructure that not only supports flexibility and remote reading but also unifies all data into a single, coherent model. When every image, report, and workflow lives within one connected cloud environment, true efficiency becomes possible. A unifed data model emerges which enables radiology teams to automate intelligently, share insights instantly, and unlock the full potential of AI and analytics across the enterprise.

A cloud-native foundation delivers the scalability, reliability, and agility that modern imaging environments require. It enables teams to expand capacity on demand, deploy new capabilities globally, and work securely from anywhere. Costs become predictable, uptime increases, and technology evolves continuously without disruption.

The Challenge Today

While many vendors market their products as “cloud” solutions, most are simply hosting legacy software on remote servers. Even though they operate in the cloud, these systems are fundamentally unchanged from their on-prem setups. Without a true cloud-native redesign, they still require local hardware, VPN connections, and manual updates, so radiology teams continue to struggle with the same limitations.

As a result, data is still fragmented across multiple systems and locations. Images, reports, and workflow data live in separate silos, making it nearly impossible to gain intelligence from them as a whole.

Non-Native Solutions

- Legacy software moved to remote servers
- Requires manual upgrades and scheduled downtime
- Dependent on VPNs and local hardware
- Replicates siloed modules in the cloud
- High capital costs for hardware refresh

Cloud Native Solutions

- Built specifically for distributed, elastic operation
- Updates continuously without downtime
- Accessible anywhere through a secure web browser
- Provides unified workflows with shared data
- Predictable subscription-based operating model

Step 2:

Assessing Specific Application Types

Reporting Solutions

What to Look For

Reporting should work hand in hand with image interpretation. When reporting is connected directly to the imaging data, it becomes faster, more accurate, and more intelligent. Modern reporting solutions should use integrated AI and contextual automation to pull in relevant priors, measurements, and findings. They should allow radiologists to focus on interpretation rather than formatting.

Challenges with Legacy Reporting Solutions

Most reporting tools remain disconnected from imaging. Without access to DICOM data, they cannot link specific anatomy to the report or automate repetitive tasks. As a result, they offer limited efficiency gains and little room for innovation.

Legacy Reporting

- Does not utilize DICOM data for automations
- Text dictation separated from imaging
- Manual insertion of priors and findings
- Rigid templates and macros
- No linkage between report and anatomy
- Limited automation

Modern Reporting

- Leverages DICOM data for smart automations
- Image-aware, context-driven reporting
- Automatic inclusion of priors and key measurements
- Adaptive, smart dictation that follows workflow
- Click-through access to specific anatomy
- Intelligent, AI-assisted report creation

Questions To Ask

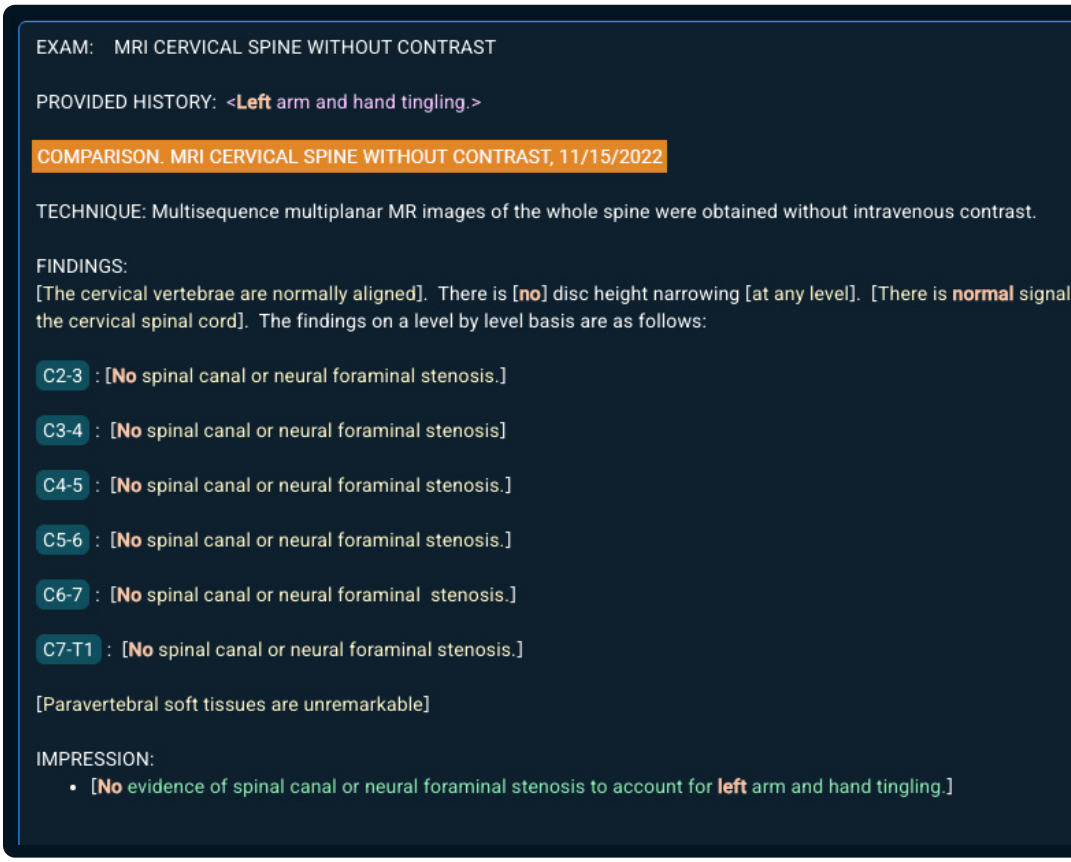
1. Does your solution directly reference DICOM data?
2. How is AI used beyond simple auto impressions?
3. Is the solution live in production today, and can you speak with users?

Sirona Difference

Sirona integrates DICOM data natively into a unified platform. The result is image-driven reporting enhanced by AI that automatically connects findings to anatomy, reduces dictation time, and improves accuracy. Radiologists spend more time reading and less time managing templates or formatting text.

AI-Powered Automations:

- Unstructured Dictation with Focus Mode
- Auto Insertion of Relevant Priors
- Smart Links to Corresponding Anatomy
- Auto Impressions



PACS Solutions

What To Look For

A modern PACS should be fast, flexible, and fully cloud-based. Radiologists should be able to read securely from anywhere, collaborate easily, and have access to new features instantly without IT intervention. True cloud-native PACS solutions make that possible, combining high performance with complete operational freedom.

Challenges with Legacy PACS Solutions

Traditional PACS systems were built for local servers and static networks. Even when cloud hosting is added, the core remains tied to on-premises infrastructure. Every upgrade requires coordination, VPN access, and downtime. Scaling to new sites or modalities adds cost and complexity.

Legacy PACS

- On-premises servers and storage
- Manual upgrades and patches
- VPN required for remote access
- Minimal integration with other tools
- Proprietary hardware

Modern PACS

- Distributed, redundant cloud architecture
- Continuous browser-based updates
- Secure access from anywhere, no VPN needed
- Unified with reporting, workflow, and AI
- Hardware-free scalability and flexibility

Questions To Ask

1. Is your solution truly cloud-native, or dependent on on-premises infrastructure?
2. How quickly can new features be deployed to production environments?
3. Can radiologists read securely from anywhere, without VPN or hardware dependencies?
4. How does your PACS integrate with reporting, AI, and workflow systems?

Sirona Difference

Sirona's imaging platform was built entirely in the cloud. Radiologists gain immediate access to studies from any device with enterprise-grade security. New capabilities are deployed instantly, without disruption. This approach lowers infrastructure costs, increases agility, and eliminates the limitations of legacy PACS.

Sirona's patented Ontology organizes and displays studies, even when series descriptions are inaccurate or inconsistent.

A powerful suite of AI automation and patented Pixel-to-Reporting technology connects measurements and annotations made in the viewer to the appropriate location in the radiology report.

Read from anywhere for anyone.

Business Continuity Solutions

What To Look For

Radiology should never stop. Modern continuity solutions ensure that imaging and reporting remain accessible even if a core system fails. With redundant infrastructure, intelligent failover, and seamless access, radiologists can continue reading without interruption or data loss when primary systems go down.

The Challenge Today

Downtime in legacy environments halts interpretations, delays patient care, and leads to major financial losses. Recovery often requires manual effort and hours of lost productivity.

Legacy Continuity

- Manual recovery after outages
- On-premises servers
- Frequent downtime during updates
- High cost of outage and lost reads

Modern Continuity

- Automated, seamless failover
- Redundancy with no user action
- Continuous operation without interruption
- Predictable uptime and stable operating costs

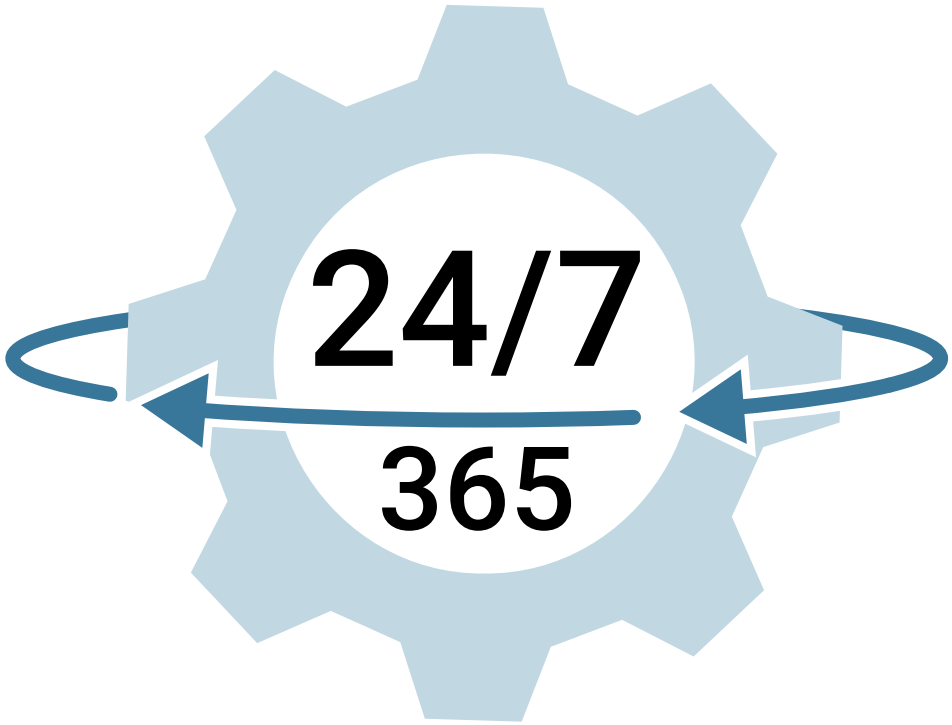
Business Continuity Solutions

Questions To Ask

1. How does your solution maintain access to images and reports during a PACS outage?
2. Does the platform offer seamless failover without user intervention?
3. Is the solution redundant and automated?
4. What uptime SLAs are guaranteed?

Sirona Difference

Sirona's architecture ensures continuous operation even when other systems fail. Built-in resilience keeps radiologists working through outages, protecting both revenue and patient care. It transforms downtime risk into operational confidence.



Worklist Solutions

What To Look For

A modern worklist should be dynamic and customizable, reflecting real-time priorities and specific practice needs. It instantly adjusts to new workflows, merges data across facilities, and presents the radiologist with everything they need, including automatic summaries of prior imaging and connections to previous studies, all in one streamlined view.

The Challenge with Legacy Worklists

Legacy worklists are fractured and siloed. Each site, system, and modality maintains its own rules, forcing radiologists to jump between disjointed queues and interfaces. These systems require extensive manual configuration to adapt to new business realities.

Changes to practice structure, such as adding a new site, shifting reading assignments, or rebalancing workloads, often require months of coordination and significant financial investment to rewire the legacy system. Meanwhile, the complete patient story remains fragmented across PACS, RIS, and reporting tools.

Legacy Worklist

- Fractured and siloed across sites and systems
- Static rules requiring IT intervention
- Separate systems for scheduling, priors, and reporting
- Manual reconfiguration for structural or economic changes
- No consolidated view of the patient journey

Modern Worklist

- Unified and pliable, adapting instantly to practice needs
- Dynamic, configurable logic updated in real time
- All data unified within a single platform
- Structural changes applied with a few clicks
- Complete patient jacket with prior summaries and reports in one place

Worklist Solutions

Questions To Ask

1. Does the worklist unify PACS and reporting solutions across all sites?
2. Does your patient jacket automatically display summaries of prior studies?
3. How easily can your platform adapt to practice operations or technology changes?

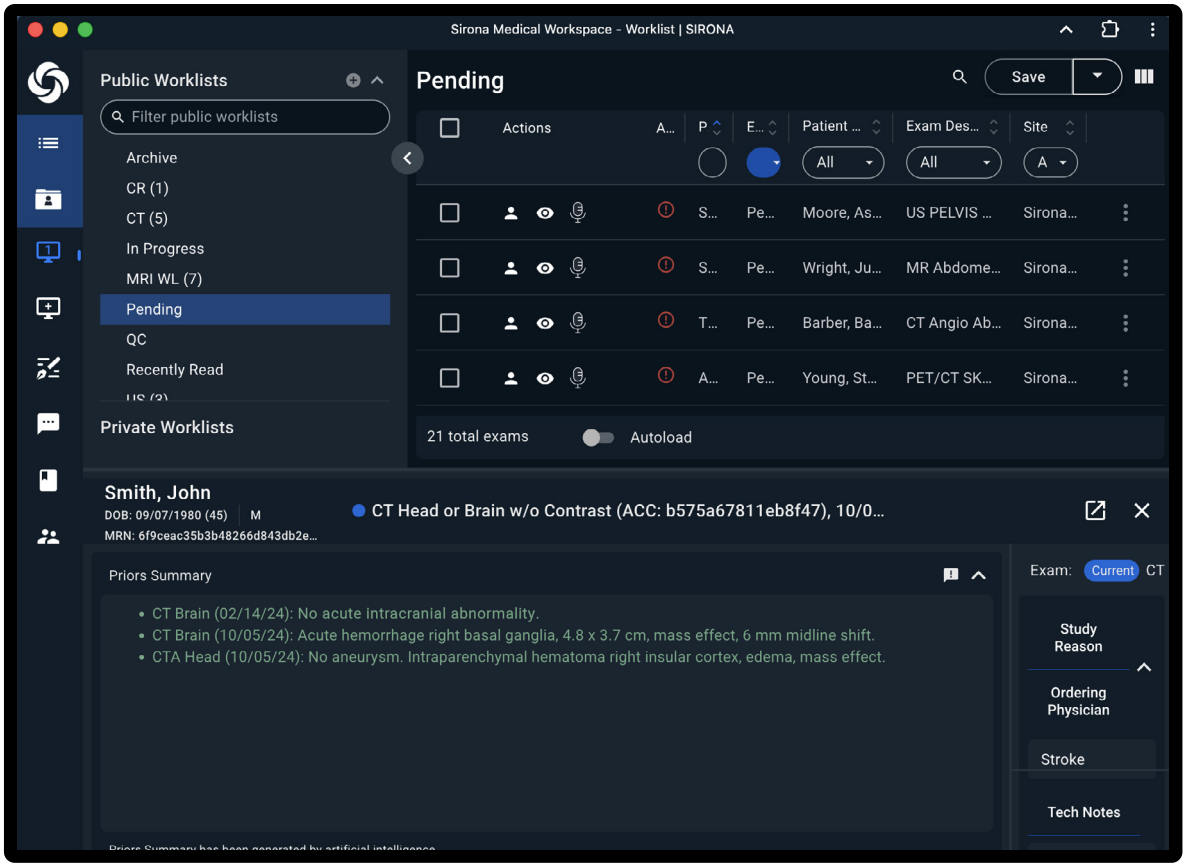
Sirona Difference

Sirona delivers a unified and pliable worklist built on a cloud-native architecture that connects every aspect of the diagnostic process.

Radiologists can view all relevant information — including prior reports, key images, and prior study summaries — directly within the patient jacket, without needing to switch applications.

Administrators can create custom worklists, modify workflows, adjust routing, and/or reorganize reading structures in minutes rather than months.

- Flexible and Customizable Worklists
- AI Prior Report Summary



Step 3:

Assessing Imaging AI and Foundation Models

Where Imaging AI Drives Impact

AI should live inside the workflow, not next to it. When imaging intelligence is embedded directly into the reading and reporting process, it enhances accuracy, speeds interpretation, and helps radiologists focus on decision-making rather than data retrieval. The best AI works silently in the background, surfacing the right insights at the right time.

Sirona treats AI as a core component of the workflow, not an add-on. Insights are connected directly to both DICOM data and the report itself, providing context-aware assistance that speeds interpretation and enhances diagnostic accuracy. AI becomes a natural extension of the radiologist's expertise instead of another burden to the radiologist.

The Challenge Today

Many AI tools still operate as disconnected widgets. They require separate logins or dashboards, breaking the reading flow and reducing adoption. Without integration, the value of AI remains unrealized.

Legacy AI

- Standalone dashboards and viewers
- Manual data transfer
- Frequent interruptions
- Limited automation
- Slow update cycles

Modern AI

- Embedded directly within reading workflow
- Automatic, context-aware insights
- Seamless integration with reports and images
- Active participation in report creation
- Continuous model deployment and improvement

Questions To Ask

1. Is your AI natively integrated into the reporting or reading workflow, or does it require separate logins, widgets, or viewers?
2. How does your AI connect findings directly to the radiology report?
3. Are results context-aware?
4. Can your AI insights drive automation in report creation?

Sirona delivers Radiology Untethered —

a platform designed for performance, reliability, and growth.

It transforms radiology from a cost center into a strategic advantage powered by the economics of the cloud.

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