



The End of On-Prem Solutions: Why the Future of Medical Imaging is Cloud Based

Introduction

What a relief that the era of on-prem solutions is behind us, and we've entered the cloud era. For years, healthcare organizations, particularly those focused on medical imaging, have relied on traditional on-premises systems to manage their critical imaging data. While these systems once seemed cutting-edge, they have increasingly become a burden, with high costs, inflexibility, and constant maintenance demands. As medical imaging departments evolve and modernize, the need for agility, scalability, and seamless integration has outpaced what on-prem solutions can deliver.

Cloud adoption in medical imaging is accelerating. Cloud-based solutions are projected to account for 43% of the global medical imaging IT market by 2027, a significant increase from 25% in 2022¹. The vast amounts of imaging data—whether from MRI, CT scans, or newer modalities like digital pathology—are growing exponentially, and this data growth is putting intense pressure on on-prem data centers. The cloud provides a more attractive solution for handling storage, archiving, and day-to-day operations without the constant need for hardware upgrades¹.

One of the key benefits of cloud solutions is their ability to future-proof medical imaging systems. Unlike traditional on-prem setups, where IT teams must manually install updates, cloud platforms ensure that systems are always running the latest versions. Security patches, system improvements, and new features are automatically rolled out, allowing healthcare providers to maintain a cutting-edge infrastructure without disrupting workflows. By centralizing updates and maintenance, the cloud significantly reduces the burden on IT staff and eliminates the risks associated with outdated software. This ensures not only that imaging systems are compliant with the latest regulations but also that they remain secure and efficient in the face of evolving technological demands³.

Cloud solutions also allow healthcare providers to escape the never-ending cycle of expanding on-prem infrastructure. Not only does this reduce the need for physical space, but it also eliminates substantial costs for maintenance, cooling, and electrical usage³. This newfound flexibility enables medical imaging departments to focus on what really matters: delivering excellent patient care. Cloud solutions allow clinicians to access critical imaging data anytime, whether they are on-site, at home, or on the go³.

Moreover, cloud adoption is reshaping how healthcare organizations approach their data needs. More providers are choosing to offload cybersecurity

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responsibilities to cloud service providers, who are better equipped to handle these threats around the clock⁴. This shift allows internal IT teams to focus on more strategic initiatives rather than constantly dealing with maintenance or security risks². As medical imaging departments increasingly rely on enterprise imaging systems to consolidate and share data across departments and even entire healthcare systems, the flexibility and connectivity that cloud solutions offer become even more essential².

The era of on-prem systems was filled with limitations, from high costs to rigid structures that struggled to keep up with the rapid advances in healthcare technology. With cloud-based solutions, healthcare organizations can finally break free from these constraints, positioning themselves to harness the full potential of modern medical imaging, AI, and data sharing in a much more efficient and sustainable way.

Companies like Imalogix are leading the way by offering cloud-based solutions tailored to the needs of medical imaging departments. Their fully automated systems ensure that healthcare providers can seamlessly integrate cloud technology into their operations, while also benefiting from enhanced visibility, reduced IT burden, and comprehensive data management capabilities. With Imalogix, medical imaging teams can be confident that they are not only ready for today's challenges but are also well-prepared for the future.

Works Cited

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