Scale. Simplify. Share.

The IBM Watson Health portfolio for enterprise radiology
Introduction

As the healthcare landscape continues to evolve, successful hospitals and acute centers are transforming uncertainty into possibility through long-term investments in their IT infrastructure. For many, the deployment of EHRs was a long, complicated and expensive process. However, with that hurdle cleared, providers are now shifting gears to address other systemic challenges, including the ever-growing number of images to read, the management of fragmented IT systems and the critical core mission to deliver high quality patient care.
Key challenges in radiology

**Image volume explosion**
As the population ages, more imaging procedures are required to address growing healthcare needs. In addition, new modalities are producing increasing volumes of data that must be read and managed. The result? Physicians are overloaded, more resources are needed for IT management and attention to patients can suffer.

Radiologists need to read one image every three to four seconds in order to keep up with current demand.¹

**Fragmented IT infrastructure**
In recent years, the healthcare industry has been ranked among the most prolific for mergers and acquisitions.² Yet consolidating providers has not necessarily resulted in the efficient consolidation of IT resources. In many cases, aggregated systems have led to a lack of standardization, the need to manage increasingly decentralized resources and missed opportunities for cost saving.

Up to 30 percent in potential cost savings remain unrealized due to a lack of system integration.³

**Obstacles to communication and quality care**
The delivery of quality care should be of paramount importance for medical providers. However, making this objective a reality depends largely on the ability to foster collaboration among clinicians, both within an organization and among external partners. Data and communication need to flow to the right stakeholders and it must happen in a timely matter.

Up to 78 percent of surveyed providers ranked greater physician-to-physician communication as a key goal.⁴
To address these challenges, providers are seeking out solutions to scale their enterprise, simplify workflows and share data efficiently. Watson Health is committed to helping organizations achieve these objectives with a comprehensive set of modular offerings that can meet their critical enterprise imaging needs today — and prepare them for the challenges of tomorrow.
Scale the Enterprise

In order to gain economies of scale and attract more patients, organizations are looking to scale their infrastructures by expanding into new geographies and service lines or via strategic mergers with other providers.

How Watson Health can help

• IBM iConnect® Enterprise Archive:* Our VNA provides a robust foundation to centralize and easily manage data regardless of format. With the ability to ingest data from multiple sources such as radiology, cardiology and specialties, this solution unifies disparate PACS across your locations to give physicians greater access to current and historical images at the point of care.

• IBM iConnect® Access:* This combination enterprise viewer and image-sharing solution is based on a zero-download client that allows for seamless deployment and maintenance across your entire enterprise.

• Merge PACS™: Our enterprise-level, AI-ready radiology PACS can support growth nationally by handling high imaging volume for vastly dispersed sites. When it’s integrated with iConnect® Enterprise Archive, server pre-fetching is no longer a requirement and studies can be expedited wherever radiologists happen to be located.*

Simplify Workflows

To maintain flexibility and achieve higher levels of performance, organizations are examining both clinical and IT workflows to reduce clinical workarounds and minimize their number of IT vendors.

How Watson Health can help

• Merge PACS: In addition to the capabilities mentioned above, Merge PACS allows you to consolidate multiple reading workstations and bring innovative workflows to all radiologists, including real-time case updates and ER-dedicated workflows.

• IBM Watson Imaging Patient Synopsis: This radiologist-trained AI solution searches both structured and unstructured data in the EHR to find clinically-relevant patient data, and then presents it in a single-view summary for the radiologist.

• Merge CADstream*: A pioneer in breast MRI computer-aided detection (CAD), this solution provides critical assistance to reading physicians by accelerating and simplifying the interpretation of large MRI studies.
Share Data

To foster greater collaboration among caregivers, engage patients and satisfy referring partners, it’s important for organizations to provide universal access to images and data.

How Watson Health can help

- **IBM iConnect Access**: As mentioned earlier, this zero-download, universal viewer allows you to image-enable your EHR and exchange data not only across your sites but within your community of referring physicians as well.

- **Merge PACS**: This solution provides physicians with the modern communication tools needed to deliver high quality care, including instant messaging to facilitate collaboration, auditable worklist notes to capture insights and direct access to patient information to gain a more comprehensive patient view.

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How our radiology solutions integrate to meet your goals

IBM iConnect Enterprise Archive

Merge CADstream Patient Synopsis (AI)

IBM iConnect Access

Merge PACS

**SCALE** the enterprise

**SIMPLIFY** workflows

**SHARE** data
About Watson Health Imaging

Watson Health Imaging, a segment of IBM Watson Health, is a leading provider of innovative artificial intelligence, enterprise imaging and interoperability solutions that seek to advance healthcare. Its Merge branded enterprise imaging solutions facilitate the management, sharing and storage of billions of patient medical images.

Watson Health Imaging artificial intelligence solutions analyze structured and unstructured patient, population, and medical research data residing within disconnected silos. Solutions available now and under development are designed to organize available information and present it in a contextually relevant, probability-driven manner to objectively assist healthcare professionals, whether at a reading workstation or at the point of care.

With solutions that have been used by providers for more than 25 years, Watson Health Imaging is helping to reduce costs, improve efficiencies and enhance the quality of healthcare worldwide.

To explore how Watson Health radiology solutions can help your organization, visit ibm.com/watson-health/imaging.

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* Not FDA cleared for diagnostic use on mobile devices


3 Size should matter: Five ways to help healthcare systems realize the benefits of scale, Strategy&. PWC. March 2016.
