

# nucleus.io<sup>TM</sup>

## MEDICAL IMAGE MANAGEMENT IN THE CLOUD

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Outstanding patient care starts with diagnostic images that can be accessed, shared and collaboratively reviewed by medical experts whenever and wherever they need them.

ELEVATING MEDICAL IMAGES TO THE CLOUD



v4.0

 nucleushealth<sup>TM</sup>

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# A HISTORY OF IMAGING INNOVATION

Since 1996, NucleusHealth has been providing teleradiology services under the StatRad® brand. We now have over sixty-five U.S. based radiologists on staff performing reads for hundreds of clients and thousands of patients every day.

Eight years ago, we embraced the cloud and built our own PACS to support our expanding teleradiology business. We then wondered if we could apply those same inspirations so patients and physicians could readily access and share medical images. Our first success was RadConnect, a cloud-based image sharing solution that leveraged web technology for better collaboration and simplified image exchange between patients, physicians and their health systems – even in underserved parts of the world.

That success inspired a whole new vision – a vision for a new platform to revolutionize the entire medical imaging ecosystem.

# SECURE CLOUD STORAGE

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Healthcare organizations and application developers rely on best practices, but rarely have the resources to develop or maintain complex security architecture. Nucleus.io offers market-leading security infrastructure, HIPAA and HITECH compliance, and customer-specific encryption keys to ensure data is safe and secure.

Nucleus.io uses Azure Disk Encryption (ADE) to encrypt patient data at rest and create a fully secure HIPAA compliant cloud storage network. Authorized single-tenant archive customers have the option to access their own encryption keys which they can manage directly using the Azure Key Vault providing them with complete autonomy over their own data. Customers access Nucleus.io over the internet using HTTPS; no VPN connection is required. Data transfer via unencrypted HTTP is not allowed. Information Security Management System Certification; ISO 27001:2013 FDA Class II Clearance.

# 24/7/365 SUPPORT

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We remotely manage and seamlessly upgrade/patch our own software so you don't have to worry about any maintenance tasks. If the server is provided by us, we will also apply any OS patches on a regular basis. Additionally, we remotely monitor the server (when provided access) to ensure uptime and to resolve any issues that arise and to perform proactive preventative maintenance.

With Nucleus.io you will have full access to your support team if you have any questions or need training. We are here to support you 24 hours a day, 7 days a week, 365 days a year.

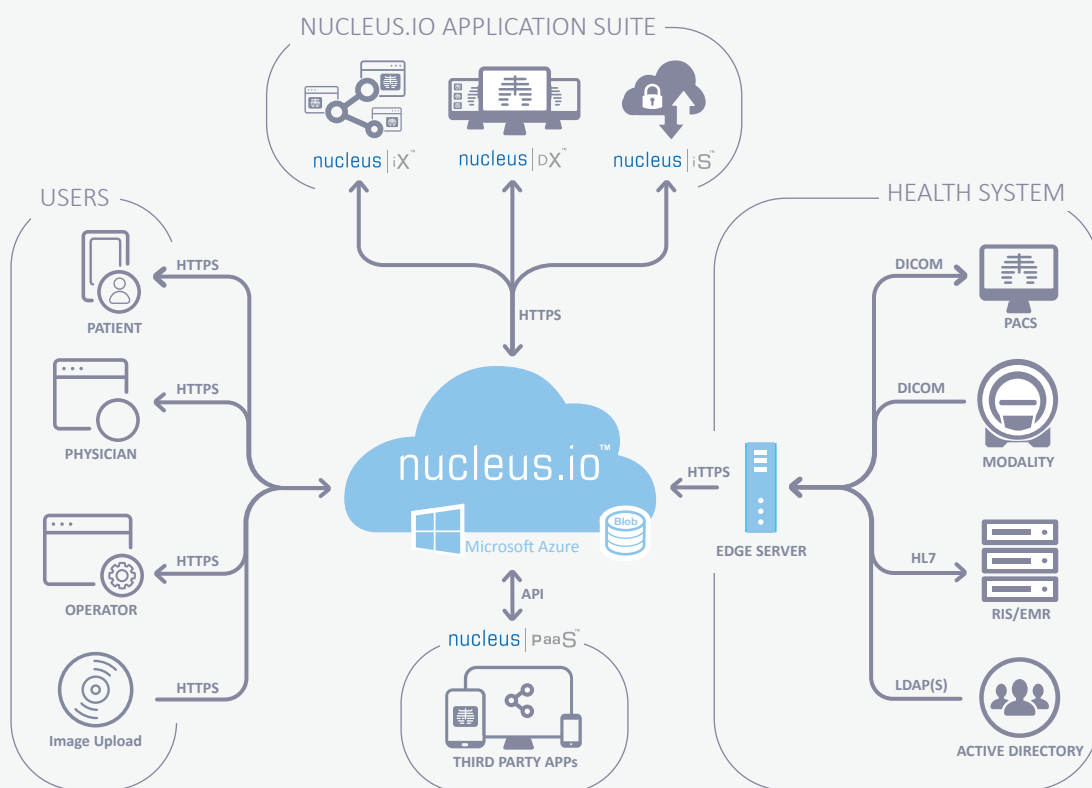
## REGULATORY

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Nucleus.io is a Class II Medical Image Device (PACS) that conforms to the following standards:

- > QSR 820
- > ISO 13485:2003
- > ISO 14971:2007
- > Joint Commission Accredited
- > DICOM 3.0
- > HIPAA





# SOLUTION ARCHITECTURE

All the data is managed securely in the cloud. Connectivity to your on-premise enterprise systems is handled by a lightweight edge server. This architecture simplifies access to data from anywhere: from inside your hospital or clinic, from a hospital or clinic across town, from patients' mobile devices and from expert physicians around the world. All an end user needs is a modern web browser.

Whether in a shared-cost, multi-tenant environment or a dedicated deployment, the nucleus.io platform is architected to satisfy all your imaging needs.

# YOUR JOURNEY TO THE CLOUD



Bi-directional EMR Integration							✓
Configurable Interpretation Worklist							✓
Technologist QC Workstation							✓
3rd Party Worklist Integration						✓	✓
Modality Integration				✓	✓	✓	✓
Full Radiology Workstation				✓	✓	✓	✓
Unlimited Sharing			✓	✓	✓	✓	✓
StatShare			✓	✓	✓	✓	✓
Automatic Actions			✓	✓	✓	✓	✓
AD Integration			✓	✓	✓	✓	✓
Guest Uploader			✓	✓	✓	✓	✓
Query/Retrieve PACS			✓	✓	✓	✓	✓
HL7 Reports			✓	✓	✓	✓	✓
Patient Sharing		✓	✓	✓	✓	✓	✓
Push to PACS	✓		✓	✓	✓	✓	✓
Diagnostic Quality Viewer	✓	✓	✓	✓	✓	✓	✓
CD Ingestion		✓	✓	✓	✓	✓	✓
Image Sharing	✓	✓	✓	✓	✓	✓	✓
	Archive	60 Days	60 Days	60 Days	120 Days	120 Days	UNLIMITED
		<b>Spoke</b>	<b>Standard</b>	<b>Enterprise</b>	<b>Downtime</b>	<b>Remote</b>	<b>Cloud</b>
		IMAGE EXCHANGE			PACS	Reading	PACS

## IMAGING CLOUD SOLUTIONS

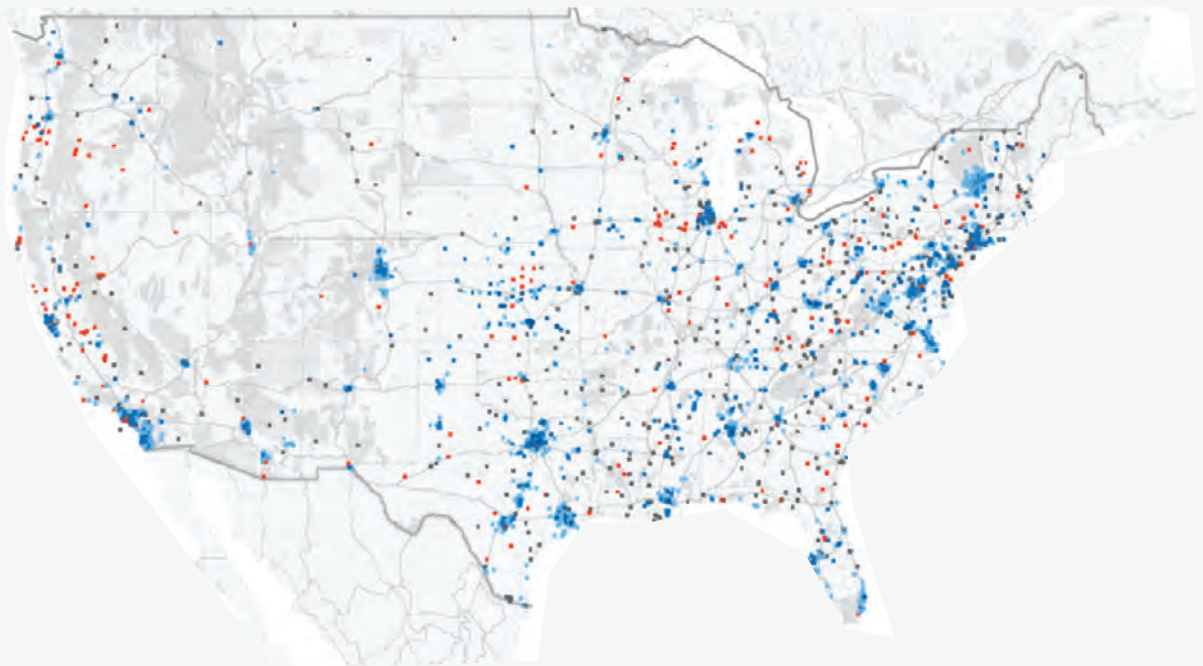
Our software modules allow your organization to ease its way to the cloud. You can choose options ranging from simple image sharing to full cloud-based enterprise image management solutions.



## IMAGE EXCHANGE

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Nucleus iX lets your clinicians and your patients quickly and securely upload medical images to our cloud-based platform, where shared access is fast and easy from anywhere at any time. Nucleus iX virtually eliminates the sharing frustrations and costs associated with CDs, VPNs, enterprise imaging systems and private clouds.



Effortlessly upload clinical images of all types and sizes to a secure cloud infrastructure



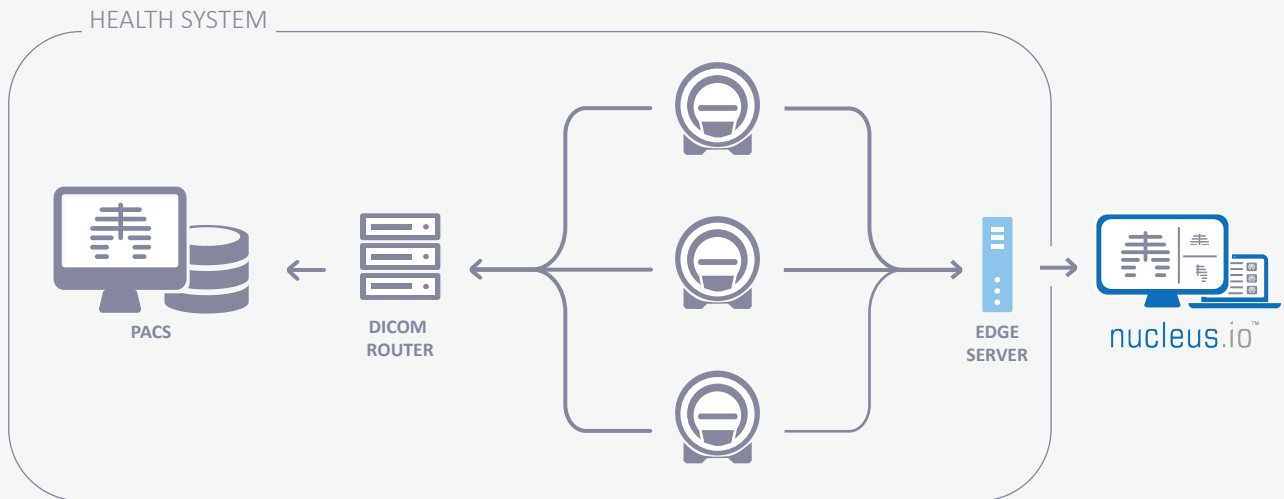
Share exam files with physicians, patients and providers with an easy to use web-based application



Connect and collaborate with other professionals and platforms

# DOWNTIME PACS

The Nucleus.io cloud-based Downtime PACS solution can be integrated at critical points in an organization ensuring your medical images are always available. The flexibility of the Nucleus.io Downtime PACS solution gives customers the option to send images to the cloud directly from modalities, DICOM routers or other devices allowing for image availability on demand from any web-enabled device.



Integrate directly with your modalities for uninterrupted image ingestion



Medical image availability on demand from any internet enabled device


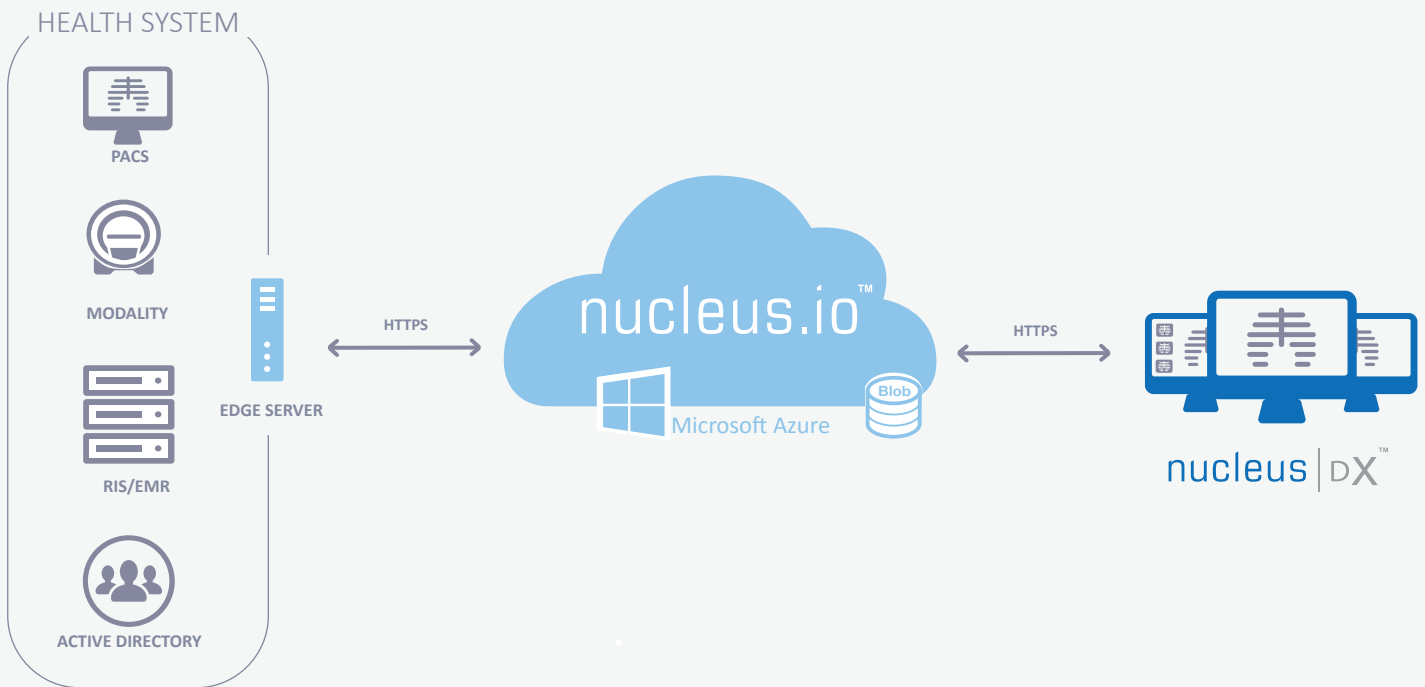


Continue production reading during scheduled or unscheduled downtime




# REMOTE READING


Through our cloud-based diagnostic workstation Nucleus Dx, your organization can provide remote reading capabilities over a secure internet connection at the same or better performance level as on-premise systems. The Nucleus.io Remote Reading solution gives radiologists the flexibility and satisfaction of working from home with the ability to ingest, store, share, and view diagnostic images without limitations.



Radiologists can now read exams from anywhere they have an internet connection




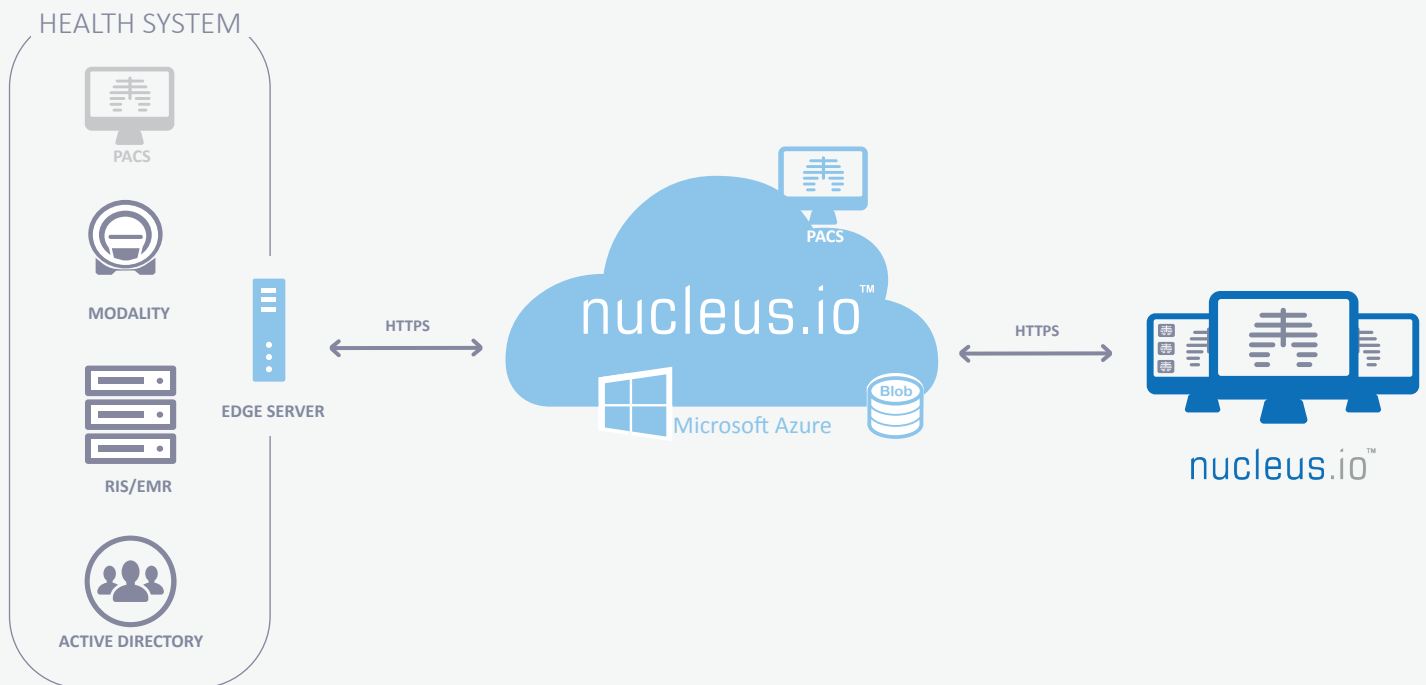
Seamless EMR driven workflow ensures access to the entire clinical context of the patient




Built with extensive connectivity in mind, with APIs for the viewer and voice recognition applications

# CLOUD PACS


The Nucleus.io platform consolidates disparate medical imaging data across your entire organization by utilizing all modules of the platform to create a PACS that is solely cloud-based. Clinicians have quick and secure enterprise-wide access to patient medical images from any web-enabled device to develop quicker diagnoses and treatment plans.



Bi-directional EMR integration for full enterprise workstation power in the cloud



Unlimited, scalable archiving with the ability to query/retrieve priors securely and quickly



Connect all of your facilities image management needs by managing one single system