Atmos for Medical Imaging

What is Atmos?
- An object storage platform to deploy a private or public cloud storage solution to store, archive and access unstructured data at scale
- Leverages a single global namespace across all nodes to federate data, which increases accessibility and improves data protection.
- Creates Active-Active clouds to keep data constantly available.
- Uses WAN-Optimized APIs (like REST) in the data flow to provide high performance across great distances for cloud based data access.
- Manages object metadata that allows searching and retrieval, and storage and protection management via policies using metadata.
- Efficient, secure multi-tenancy, which logically separates data based on user, location, application, workgroup, or entity. Individual ILM policies can be created based on tenants.
- Automates management, reporting and chargeback of the entire cloud.

How is Atmos Used?
Consolidate Multiple PACS archives to a single archive. Applications can be managed and charged back separately.

Deploy new VNA architectures which can take advantage of Atmos APIs to maximize data accessibility. Metadata can be used to assist fetching and to drive data protection policies

Deploy multi-site or multi-hospital archives that enables data access from any archive the application has access to. Cache and archive can be pushed to Atmos.

Create healthcare provider clouds that allow providers to create storage and image services to other hospitals, which improves data sharing and collaboration between entities. Atmos can also extend to public clouds for off-premise storage for lower cost disaster recovery.

Why Atmos for Medical Imaging

Data Protection
- Object-Oriented storage prevents image corruption
- Active-Active ensures multiple copies across sites instantly
- Metadata enables flexible data protection with GeoProtect

Accessibility
- Global Namespace enables Atmos nodes to act as one cloud
- API to enable advanced metadata policy management
- WAN Oriented making data access across locations simple

Manageability
- Connectivity flexibility with API, Native CIFS, or gateway
- Cloud capability with REST, HTTP(S), and web services
- Automated data placement, protection, and web services

TCO
- Multi-tenancy simplifies managing many apps and sites
- Low Cost storage backend with high density footprint
- High Performance, massive processing and image serving