

Faster, Error Free Migrations at Unbelievable prices – Believe it!



DICOM data deserves the Data Migration Expert touch.

PACS-Man Data Migration™

Our proprietary tool does all the work, It provides

- Migration Wizard
- Storage
- Router
- Dashboard Image Reference Viewer
- Q/A Station
- Vendor Independent
- Configuration Module
- Administrative Console and more...

One Byte Data (OBD) has created a proprietary hybrid solution (i.e., on premise and/or the Cloud) that offers ultra-fast (and error-free) data migration and transparency as well as total management and 100% control, coupled with real-time analytics.

Ultra-Fast Migrations – One Byte at a Time.

Our solution provides clients with full control over an ultra-fast migration process – arming them with the ability to start, stop, pause, and resume the migration at any time. Instead of waiting for a report at the end of the project, the client can investigate any emerging issues with data images right away.

With the flexibility to configure the entire migration process, the client can adjust the routes, rules, destination, load balancing, and benefit from a full suite of configurable controls.

Fast Migration

- 25x or faster migrations
- 7.5 Terabytes per day or more
- Only limited by client network

Lower Operational Costs

- Low price per study
- Reduced downtime
- Better risk management

Premise or Cloud

- Device independent
- Better network optimization
- Azure ready

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One Byte Data: The Data Migration Experts



One size fits all

Data migration projects are not a “one size fits all,” require a delicate balance between science and art. To meet (and then exceed) a client’s objectives and deadlines, One Byte Data developed proprietary technologies that we pair with sophisticated data methods.

Unbelievably Low Pricing

We help our clients to take a serious bite out of the cost of migration. Thanks to our ultra-fast migrations and proprietary tools (offered at single-digit costs per study), we have revolutionized the data migration space.

Ultra-Fast and Error Free

To ensure the highest level of data integrity and throughput, during each migration project our team accounts for the impact on the entire production system. For this, we analyze, design, and run tests using the latest data cleansing protocols. While only the client can address Type II* errors the PACS Man migration tool eliminates Type 1 errors and facilitates migrations.

Our intuitive and user-friendly platform provides the best of all worlds, enabling the platform to scale and process over 150,000 studies daily (approximately 7.5 TB).

Type 1 errors: Name, typos, date of birth, accession numbers, and Medical Record Number (MRN) mismatch
Type 2* errors: No one can address these. Think garbage in, garbage out. Missing and corrupt data



End-to-End Transparency and Control

Clients can use our mobile or desktop app to view their data in real-time, as it migrates from the source to the destination. Robust – yet intuitive – dashboards provide real-time analytics of the entire process, including error retry. Verification and validation are handled in the PACS migration software suite, either automatically or following the migration process.

Case Study

Taking a bite out of the high cost of data migration

Prior to approaching our team, a major Midwest health system had worked with two other vendors who migrated their digital imaging & communications in medicine (DICOM) data at a rate of 80 studies per week. After the One Byte Data team was called in, we achieved migration rates of 1,200 studies per day. Only limit was the network’s available bandwidth. The result? Studies were migrated in months rather than years.

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DISCOVERY

Identify studies in the source system (*DICOM C-FIND*)



TARGET

Filter data that is not required to be moved, Ex: test studies.



TESTING

Setup the initial run with a small batch of data to gauge performance and confirm source / destinations system health.



MOVE

Setup automated migration with measured throughput.



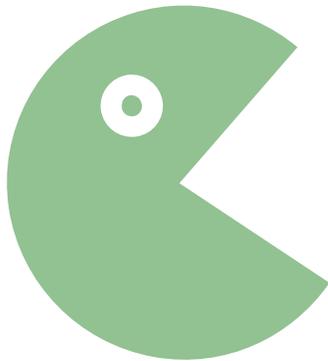
VERIFICATION

Validation of data moved comparing source & destination's counts based on unique identifiers.



ANALYTICS

Summary of Discovered Studies, Studies Migrated, Duplicates, Missing Studies, Missing Images, and Others.



Faster data migration

Error Free Data

Freedom from out of date software / hardware

Control over the process

Our process is structured but flexible because we understand all data migrations are different.



DATA MIGRATION PROCESS

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Picture Archiving and Communications has an Image Problem



Through Unsecured PACS, 400 Million Medical Images Are Freely Accessible Online

“A recent investigation by ProPublica, the German public broadcaster Bayerischer Rundfunk, and vulnerability & analysis firm, Greenbone Networks has revealed millions of medical images contained in image storage systems are freely accessible online and require no authentication to view or download the images.”

The Numbers

- 2300 Internet-connected PACs audited
- 733 million medical images were accessible/retrieved
- 399 could be viewed and downloaded
- 590 required no authentication whatsoever to view
- In most cases, a DICOM viewer was required but some could be viewed with just a browser
- 52 countries surveyed
- 187 unsecured servers were identified in the United States (US)
- The exposed US' PACS contained 13.7 million data sets and 303.1 million medical images of approximately 5 million patients
- 10,000 security issues were identified on the systems that were audited
 - 20% were high-severity and 500 were critical and had a CVSS v3 score of 10 out of 10
- Most hospital networks are not secure because DICOM “c-find” is open and available on the wire/wireless network. Also, the industry standard HL7 is not truly secure.
- Source: HIPAA Guide Sept 2019

The Solution

A comprehensive, Cloud-ready, device-independent tool suite, coupled with Microsoft Azure®

Security on Azure:



Ability to whitelist/blacklist IP



TLS certificates (version 1.2)



Authentication with existing systems

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