



# ObjectArchive™

Highly Scalable, Secure Document Archive



Member of Omtool's Healthcare Suite



ObjectArchive™ electronic archive from Omtool, Ltd. is designed for high volume data archiving of data in final form, commonly referred to as fixed content information. Built to be integrated with highly reliable low-cost OEM Storage Area Networks, ObjectArchive provides dramatic price performance and value added platform enhancements when offered to businesses or application vendors requiring high capacity fixed content data archiving. ObjectArchive is a system with the flexibility to store any object type and can support millions of data objects without performance limitations associated with traditional file oriented database archive systems.

Demand for access to digital “fixed content” is expected to fuel the growth of online storage systems through the year 2007. “More information will be created in the next two years... than in the entire history of humanity” (Source: EMC2 Product Data Sheet C2003). OEM storage system vendors can now offer a true object oriented file management system to meet the data archiving needs of their customers.

## Features & Benefits

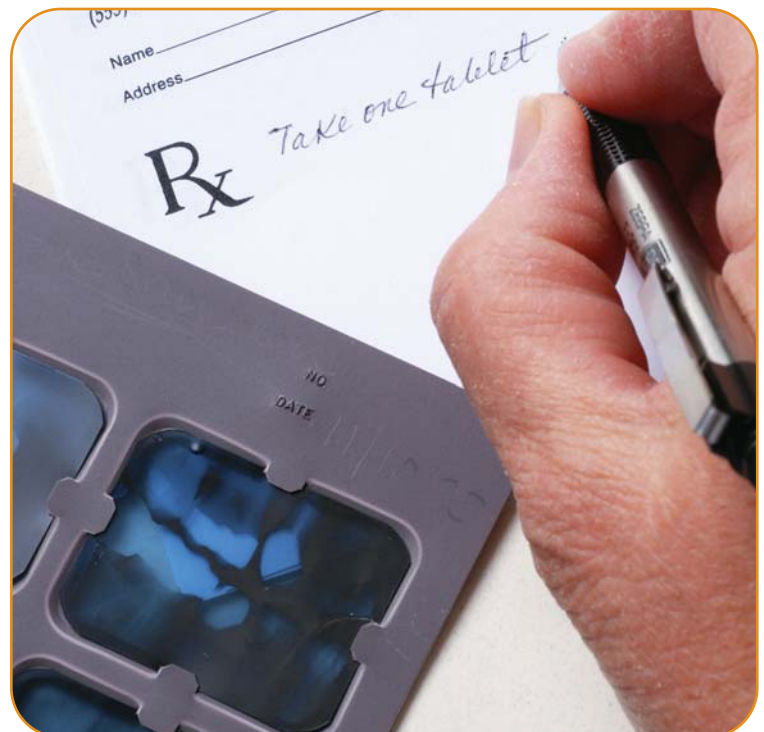
- **Fault Tolerant Data Recording** to insure data redundancy through the storage and backup processes.
- **Disaster Recovery Support** is provided through full object and transactional journaling.
- **Object-Oriented Data Structures** allow users to mix multiple file types in a common archive.
- **Infinitely Scalable** system capacities based on Server and OEM SAN or NAS configurations.
- **Configurable Multi-Threaded Transaction Engine** which maximizes CPU utilization to support high speed store and retrieve from multiple clients.
- **Dynamic System Expansion** is accommodated through user addition of Hot-Pluggable disk drives.
- **Integrated “Claim Check” API** incorporates a 128-bit key to insure global uniqueness of object identification.
- **High Capacity Object Design** supports single element data “blobs” that can be as large as 4 Gigabytes.
- **Unlimited Object “Properties”** in addition to unlimited property definitions, an object can store single or multiple values for any given property. New properties and values can be added throughout the life of an object. (“Unlimited” is defined as up to 4 billion.)

- **“Volume” Recording** combines many objects into an optimum size (typically 4GB) single file volume. Multiple volumes are used to insure maximum utilization of disk media by eliminating wasted space from inefficient block sector disk writes.
- **Single Volume File Open** provides access to millions of objects without requiring open/close for individual file objects.
- **Master Domain Server** is an architectural component designed to provide access management for multiple ObjectArchive servers. (Master Domain Server is not included as standard feature and requires a special bid from Omtool, Ltd.)
- **Cyclic Redundancy Check (CRC)** is employed when writing to disk to further insure data integrity.

## Industry Applications

**Medical Diagnostic Imaging:** for storing and retrieving digital x-rays and other radiological studies in a digital format.

**Medical Industry Records:** such as clinical documentation, physician’s orders, prescription documents and other records which must be retained for many years as required by regulatory bodies.



## “Object” Technology

Objects can be comprised of various file types and commingled in a common archive without regard for file size or content. BMPs, JPEGs, color and monochrome TIFFs, GIFs, audio/video files, PDFs and virtually any file format containing binary data can be archived. Objects can be single element objects or “container” objects designed to hold groups of objects.

## Backup Options

ObjectArchive includes standard backup support for SDLT tape drives. A DVD backup option is available which eliminates lengthy tape backup runs by writing backup volumes to non-volatile DVD media. Optical Jukebox device support is also available. Other OEM backup options are available for integration with selected backup applications from Veritas™ and Legato™.

## Vendor SDK & Support

A comprehensive C++ class level API is available to support all aspects of ObjectArchive volume management. A COM object which supports a subset of the API functions is also available. Support is available 24/7.

## Optional “Capture” Utilities

“**Report to Image**” supports transformation of printed reports to image file format to preserve and maintain information in an unalterable format.

**Point of Service Capture** supports input from scanners, signature tablets, and digital cameras and can be integrated with existing applications performing enrollments, registrations or other similar functions.

**File Import Utility** to enable input of data files and objects from existing platforms.

**Electronic Data Interchange File (EDI) “ImageBuilder”** creates individually indexed image files for each transaction and submits to archive.

**Business Document Imaging** supports batch document scanning, manual and automatic indexing, verification and submission to archive.

## Case Study

When a current customer of Omtool, Ltd. had reached capacity and performance limitations of their traditional database driven archive, ObjectArchive was selected as the replacement platform. A migration utility was designed by Omtool, Ltd. to support immediate transition to the new ObjectArchive software and hardware and allow seamless access to the old system data while concurrently permitting data migration to take place in the background.

System installation and cutover involving 1.6 TB of data was accomplished in a matter of hours

eliminating the need to schedule major downtime for a mission critical application. The customer now enjoys new levels of performance, reliability and scalability.

Total Objects	40 Million
Data Utilization	1.6 Terabytes

### Weekly Transactions

Objects Written	179,000
Objects Printed	42,000
Objects Read	16,000
Total	237,000

## Omtool Healthcare Suite

- ADT eForms™ Production System
- eForms Station™ Electronic Forms Library
- Image-In™ Point of Service Image Capture System
- Image-In™ Business Document Capture and Archive System
- Image-In™ Clinical Back Office Scanning
- Image-In™ Queue Document Processing
- AccuRoute® Document Handling Platform
- ObjectArchive™ Electronic Archive

## About Omtool, Ltd.

Omtool, Ltd is a leading provider of document handling solutions that simplify the integration of paper and electronic documents in enterprise information management systems. Our flagship product family, AccuRoute, streamlines the capture, conversion, communication, and archive of paper and electronic documents, enabling fast, secure, simultaneous distribution to multiple destinations in multiple formats. AccuRoute products deliver faster, more efficient workflows, while reducing cost, complexity and risk. Omtool solutions are used worldwide by businesses in document-intensive industries that demand secure handling, integration and tracking of documents in full compliance with a range of regulatory requirements. Based in Andover, Massachusetts with offices in the United Kingdom, Omtool can be contacted at 1-800-886-7845 or [www.omtool.com](http://www.omtool.com).

## System Requirements

Intel based server with 2MB memory, Windows 2000 server, SQL, TCP/IP protocol support, mirrored drives for OS, Tape backup, NIC, modem and RAID controller. Storage Area Network with RAID 5. Appropriately configured disk capacity.



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