

# datassure®

A comprehensive tape storage solution that meets the need for back-up, archive, data recovery and application storage, while reducing your cost of ownership.



**FUJIFILM**  
RECORDING MEDIA

# What is datassure®?

Fujifilm datassure® is designed to ensure you can be confident your tape backup and archive processes are working as efficiently and reliably as possible, within budgets.

From multi drive library diagnostics, through to data conversion, our Unified Archive Solution, data migration, simple and efficient labelling service and even compliant data destruction, Fujifilm datassure® meets your every need. Whether you are a small one-site operation or a multi-site, multi library installation the combination of Fujifilm's industry leading tape technology together with datassure® ensures the integrity of your data, while reducing cost of ownership.

## Fujifilm Data Media Technology



For over 40 years, Fujifilm have been at the forefront of coating technology, constantly working to increase tape storage capacities, while dramatically improving speed and durability. Fujifilm proprietary ATOMM and recently advanced NANOCUBIC™ technologies evolved as a result of our dedication to product quality and innovation, allowing companies such as IBM to demonstrate multiple-terabyte storage capacity on a single cartridge, while assuring our future product roadmaps.

Continuing to demonstrate our commitment to pioneering tape technology, Fujifilm are leading the way with the development of Barium Ferrite (BaFe) tape. The unique structure of BaFe particles will allow even greater storage capacities and increased reliability. When subjected to accelerated evaluation, BaFe tapes are proven to be both stable and reliable and perfect for long archival storage.

## Fujifilm Media

Tapes are the most cost effective, reliable and environmentally sound approach to long-term storage of business critical data.

### LTO Ultrium™G5

The latest generation of midrange cartridges to utilise Fujifilm's advanced proprietary NANOCUBIC™ technology is the LTO Ultrium™ G5, realising a compressed storage capacity of 3.0TB and transfer speeds of up to 280MB/s\*. The advances in NANOCUBIC™ technology have successfully achieved a higher recording density and an enhanced archival life.



The LTO G5 is also the first generation to enable dual partitioning. When used with the new Linear Tape File System the tape can function much like an external disc drive – one partition holds your valuable content while the other acts as an index. This system offers the enhanced file management that is essential in rich media markets.

Also available in **WORM – Write Once Read Many** format for extra security.

Fujifilm also offer the full range of LTO Ultrium™ generations featuring, LTO G4, LTO G4 WORM, LTO G3, LTO G3 WORM, LTO G2 and LTO G1. Plus the LTO Universal Cleaning Cartridge – compatible with all drive generations.

### Enterprise

3592 Enterprise media offer the high capacity and ultra-high reliability required in enterprise-class storage systems. Featuring our proprietary NANOCUBIC™ technology, 3592 tape can deliver native storage capacities of 300GB to 700GB (900GB to 2.1TB compressed).

### Labelling & Initialisation

As work pressures increase, so do the demands on your time and resources and efficiency in business becomes crucial. To help manage this demand and minimise costs, Fujifilm datassure® offers a comprehensive labelling and initialisation service for Fujifilm data tapes.



We offer a customised barcode labelling service in a clean environment, ensuring the same quality controls used during the manufacturing process are applied to our value-added services. Our professionally generated labels are sharply printed to guarantee quality and consistency and can be customised to specific number sequences and colours. The labels are always applied precisely, ensuring instant recognition by auto libraries.

We can offer fast and efficient customised labelling on both mid-range and enterprise tapes in approximately 2/3 days.

## Fujifilm datassure® Tape Diagnostics

The key to safe, efficient and cost effective backup is to not only use Fujifilm tapes, but also to maintain the backup function at optimal performance.

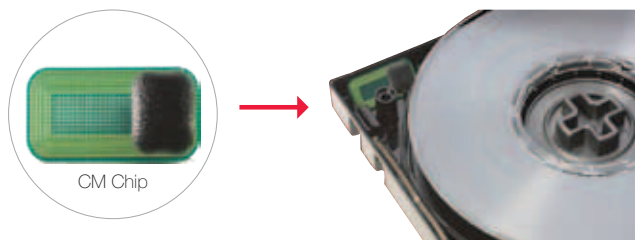
At the heart of datassure® is our tape backup monitoring and diagnostics service that will analyse cartridge and drive health, drive utilisation, efficiency and optimisation.

## Fujifilm Site Analysis Service

Fujifilm can offer a variety of on-site services, from routine health checks provided by Fujifilm staff using the Fujifilm Data Cartridge Analyser, through to a 30 day complete analysis of the backup system utilising the Crossroads™ ReadVerify Appliance. Whether to meet compliance, Service Level Agreement (SLA) audits or corporate requirements, Fujifilm can meet your needs.

### Health Checks

As part of a routine check but also to troubleshoot drive or software issues, Fujifilm staff carry out the evaluation of your LTO tapes and drives using Fujifilm's own DC Analyser technology and software. The on-site service enables your staff to continue with normal operations while Fujifilm take care of any backup problems.



Utilising the Cartridge Memory (CM) Chip found in all LTO cartridges, the DC Analyser quickly identifies backup problems and measures overall cartridge and drive health. After each site visit a report is produced providing a clear picture of cartridge health, plus details of any backup problems that may have developed.



The Fujifilm DC Analyser provides a clear status report including details on:

- **Suspended write information**
- **Number of mounts**
- **Uncorrectable error information**
- **Read/Write re-tries**
- **End of Data information**
- **Capacity analysis**
- **Cartridge age**
- **End of life**



## Fujifilm 30 Day Site Survey - powered by Crossroads™

Not sure if your drives are End of Life? Or whether you need extra capacity or additional drives? The Fujifilm 30 Day Site Survey can answer all these questions, plus others critical to the successful running of your backup and archive systems. The survey proactively validates the integrity of tape backup systems and reports on the performance, utilisation and condition of tape drives and media.

The Fujifilm survey, utilising the Crossroads™ RVA, is non-intrusive, providing high performance, enterprise-class diagnostics. The survey, conducted over a 30 day period, provides a detailed assessment of your current backup environment. This complete analysis of your tape media and drive performance identifies:

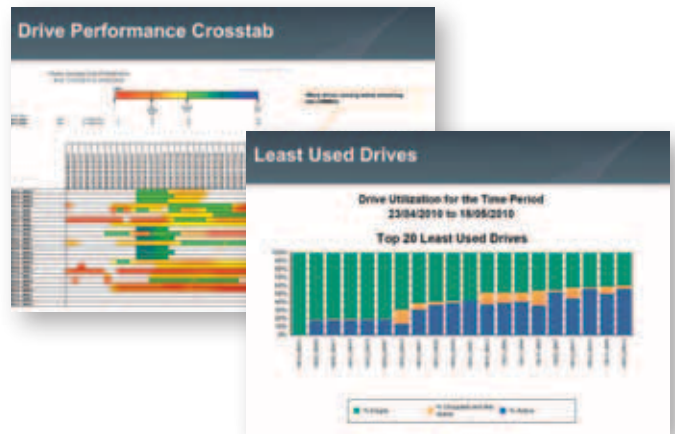
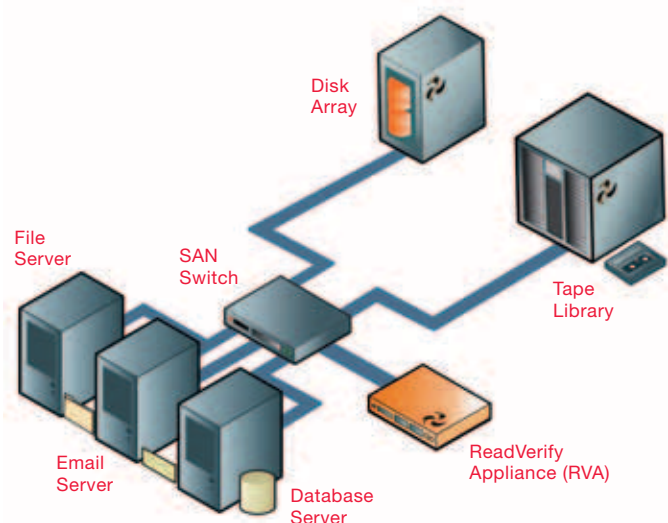
- **Daily drive performance**
- **Weekly drive performance**
- **Drive utilisation**
- **Drive-tape error analysis**
- **Tape drive performance**
- **Tape vs. drive error analysis**
- **Tape errors by type**
- **Simultaneous drive in use**



From this analysis, a comprehensive report is produced. This details recommendations including:

- **Potential cost reductions**
- **Drive repair**
- **Library service**
- **Media and drive removal**
- **Backup application and storage network configuration**

This information can be used to help maximise existing resources, avoid expenditure, meet compliance requirements and critically, reduce the risk of lost data.



## Purchase Options

Providing cost effective day to day monitoring, continuous optimisation, or simple peace of mind that you are fully compliant, Fujifilm can provide purchase and training options for either the DC Analyser or RVA.

### Fujifilm DC Analyser

The DC Analyser is an easy to use diagnostic tool that can quickly identify the source of backup problems and measure cartridge or drive health. Used regularly, the DC Analyser can help increase the reliability of your tapes and archive with minimal capital outlay. On-line support from Fujifilm incorporated in the software enables you to access further professional advice if required.

### ReadVerify Appliance - powered by Crossroads™

The purchase of an RVA allows continuous monitoring of drive and tape performance including utilisation and efficiency. This extends your capability to support timely drive and media retirement, avoid unnecessary expenditure and reduce the risk of lost data. In addition a permanently installed RVA can provide an Archive Verification Service.

### Archive Verify

ArchiveVerify™ powered by Crossroads™ reduces the risk of losing data on archived media by ensuring data written to a tape can always be read. Providing an automated process for selected tape pools, an analysis is conducted on each tape pool across the entire written length of tape media. This approach eliminates the risk of sampling, through spot audits, missing irretrievable critical data.

Full reports showing metrics of all tape verifications provide clear documented records for regulatory compliance or Service Level Agreement audits. Critically, the AV provides the level of assurance that data stored to tape can be recovered.

## Data Recovery

When things go wrong, from a minor mishap to a major problem such as mechanical damage, humidity or smoke, the ability to recover data from your tapes can be critical to business 'continuity' survival. In fact, being able to recover critical data can be key to the survival of any business. By combining our extensive knowledge of tape technology with our monitoring services, the Fujifilm datassure® solution offers a recovery service which can help recover lost data from virtually any tape or non tape media.

datassure® customers can feel secure in the knowledge that even if a catastrophe occurs, however small, they have every chance of recovering the lost data that may be priceless. Carried out under the highest security regulations, the recovered data will be copied to new media, allowing it to be accessed with no further problems. We even provide lockable transport boxes to ensure that your most confidential information is secure in transit.



## Laser Etching

Using the latest advances in laser technology, Fujifilm can permanently inscribe cartridges with sequential numbers or even your company name and logo to a maximum size of 100mm x 100mm. Whether you're looking to increase your company visibility, track cartridge movement or easily identify your tapes at an off-site vault, laser etching adds extra security for your important company data. Meet today's extensive compliance standards by ensuring that each tape in your library is fully accounted for.



## Library Packs

Specially designed by our engineers, the Fujifilm Library Pack is designed to protect cartridges against impact if dropped. The Library Pack also offers protection against dust and humidity, making it ideal for both storage and archiving. Each Library Pack holds up to 20 cartridges and the packs are designed to stack neatly on top of one another, enabling quick and easy unpacking, carrying and stacking. They are made of transparent material so that any required cartridges can be selected and retrieved with minimal difficulty.



## Data Tape Courier™ Professional Case

Tested and certified by Fujifilm, the Data Tape Courier™ is made of shock resistant rubberised resin and features soft interior contact points, heavy duty compression locks and a water resistant seal. With removable inserts designed to safely transport either 18 or 36 LTO tapes with or without their cases, these rugged containers offer a secure transit and storage system for your valuable data tape media.



## Data Conversion

Secure archiving is often a major problem, especially when the data has to be merged from various types of storage media and formats to then be transferred or integrated onto a new or different backup system.

The Fujifilm datassure® conversion service is the ideal way of minimising this problem. By creating an exact copy from the original media your data can be transferred from one platform to another and ultimately archived on a single platform.

## Data Migration

Whether due to hardware upgrades, acquisition, trade purchases, mergers or merely the need to reduce software space, data migration is a great way to reduce your storage costs. There is an increasing demand for the transfer of extensive volumes of data from older 'legacy' systems over to new ones. These moves are often necessary to safeguard compatibility or to harness the considerable advantages that a new system offers. The Fujifilm datassure® migration service involves creating an exact copy from one media to a similar or different media in the same format without any analysis or editing. By using the service, you can avoid laborious transfers that could cost your company untold amounts of time, as well as avoiding interrupting your internal workflows and tying up staff who could be deployed more efficiently elsewhere.

## Unified Archive Solution

### The Future of Archive

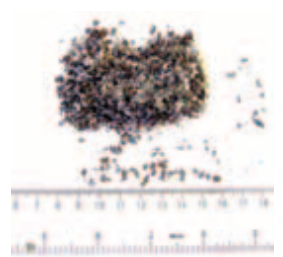
Fujifilm's revolutionary Unified Archive Solution is a new way to manage your archive requirements, uniquely ensuring they are completely future proof, available on-demand and totally secure.

Not only will it save you time and money, your data is always accessible removing any need for migration or conversion.



## Data Destruction

Corporate governance in the 21st century requires not only the secure and confidential disposal of unwanted data but a method that addresses environmental concerns as well.



Fujifilm offer a comprehensive service that meets all legal and environmental requirements for a range of security needs - from standard commercial destruction to top secret data.

To ensure the utmost confidentiality all media is placed in a security sealed bag and transported in a plain van, which is tracked from pick up to set down. Once the media arrives at our facility a head count is completed to ensure full accountability. The media is processed through the plant where it is shredded down to 6mm, from which even the world's most capable IT expert could not recover data. The process is recorded on CCTV from start to finish, for complete peace of mind. To address the environmental impact, the waste materials are recycled into either road aggregate or used as fuel for electricity production. Finally a certificate of destruction is produced to complete the audit trail.

Security measures:

- **CCTV camera system**
- **Full electronic access control**
- **Security cleared personnel**
- **GPS tracked vehicles**

When media contains highly sensitive data, Fujifilm can provide additional measures to ensure extra protection. Including, shredding media down to 2mm, degaussing the media before removal, on-site destruction or even accompanying the media to our facility to observe the destruction!