

## Hard Drive Recovery

# Challenging Data Recovery of Apple Time Capsule 2TB

### Data Recovery Case

This case study delves into a challenging data recovery project handled by PITS Global Data Recovery Services. The task involved an aging Apple Time Capsule 2TB that had malfunctioned, with all the valuable photos. Our dedicated team eagerly embraced the opportunity to explore the past, conducting extensive research to unravel the solution.

### Client Engagement and Evaluation

Our client wanted to recover valuable family photos and videos stored on the malfunctioning Apple Time Capsule. After unsuccessful attempts to retrieve the data independently and with local repair shops, the client entrusted the sealed device to our certified lab for evaluation.

### Inspection of Apple Time Capsule

We carefully removed the cover to access the vital data stored within the device. The server-grade HDD from Western Digital had failed, with no clicking sounds when powered. However, it could be initialized, allowing us to back up critical data.

### Identification of Head Failure

During the head test, one failed head was unable to read or write data. Hence, we developed an effective recovery strategy.

### The Best Strategy for Time Capsule Recovery

To ensure data integrity, we cloned the hard drive using functioning magnetic heads before replacing them in a certified cleanroom. Our technicians then went through the extensive donor parts database to find a compatible spare part. With the head replaced, we proceeded with data recovery.

### Sparsebundle on Apple Time Capsule

Sparsebundle, an outdated disk image format, was employed by the Apple Time Capsule. We developed proprietary software to translate this format into a readable filesystem, allowing us to retrieve the correct folder and file names.



### Successful Recovery and Delivery

Using our advanced methods, we mounted the Sparsebundle disk image files and successfully recovered all files, including lost photos and videos. The restored data was saved to a new external SSD drive and promptly shipped to the client.

### Conclusion

This case study highlights our team's intricate data recovery journey, salvaging valuable photos and videos from a malfunctioning Apple Time Capsule 2TB. Through diligent research, careful evaluation, strategic cloning, and innovative techniques, we overcame challenges posed by aging hardware and outdated file formats.

Clients can trust PITS Global Data Recovery Services for professional and successful outcomes, ensuring data security and confidentiality.

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