



EFFECTIVE SECURITY

Provides complete data security at realistic price points, integrating tape into the backup solution simply and effectively

SMALL OR LARGE

With options focused on the smaller business or inter-department and larger centralised HQ configurations, *clone₂tape* offers solutions at all levels.

LOCAL AND REMOTE

Interlocks with tape-by-wire to form an effective offsite tape archive and DR pool without the need to physically transport media.

clone₂tape

Automated VTL to physical tape migration



- Seamlessly migrates local or replicated virtual media to physical media attached directly to the VTL
- No server or LAN impact, runs completely transparently and independently to the host network
- Barcode cloning technology ensures that the physical tape is recognised and referenced by the backup application catalogue
- Direct from tape restore – no need to restore to disk first ensuring maximum recovery time in DR situations.

Whilst today's demand for high performance backup and recovery require the use of disk based solutions for the initial backup, for many applications a physical copy of a backup is required for safe keeping or archive purpose.

The result is a secondary process which duplicates the initial disk backup to tape media. With standard disk based solutions this process is normally under the backup application control and requires server and storage network resource.

ID7's *clone₂tape* automates this process by duplicating the backup onto tape connected direct to the VTL, a quick and effective method which results in no network impact and does not affect the backup window.

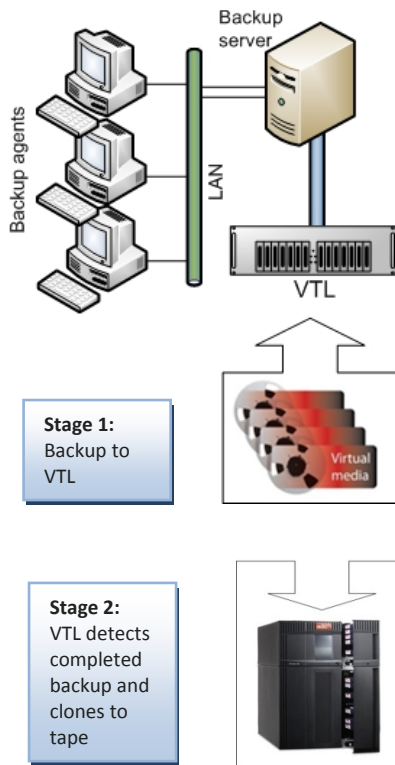
Unlike standard disk solutions ID7's *clone₂tape* ensures catalogue integrity and dramatically reducing recovery time and increasing reliability by propagating tape barcodes as highlighted overleaf.

clone₂tape also interlocks with tape-by-wire, a VTL based replication module which allows for a physical copy of the backup to be created off-site eliminating the need to post media for archive or safe keeping.





The basic method



Central to *clone₂tape* is its simplicity, regardless of how involved your backup configuration *clone₂tape* can completely automate the duplication of your backup data onto physical tape media.

A typical backup configuration is shown on the left, the backup server collates data from multiple sources and sends it to a Virtual Tape Library.

Clone₂tape detects when the initial backup is completed on the VTL and instantly begins the process of duplicating the backup to physical tape.

The process maintains the original application format ensuring complete compatibility and direct readability whilst the direct connectivity ensures full streaming performance.

Application format: *What's it mean to you?*

A key difference between VTL and standard disk based backup solutions is that although the data is saved on disk the application treats it just like a real tape solution and creates *virtual media* unlike a standard D2D where the application creates standard *files* on the disk. On a basic D2D a backup of 100 files would create 1 large file containing all the data and whilst some D2D solutions will create a copy of this file on tape this provides unrealistic recovery protection.

With such a method at time of recovery and because the application will not understand the format of the tape, you would need an identical D2D to recover the tape backup (meaning twice the investment). Secondary the entire backup file has to be restored which is likely to take hours. Only after this can you start to recover. Even if you only need to recover a single file you would have to spend hours restoring complete backups to the D2D first.

With a tape created by *clone₂tape* the application can recover an entire backup or an individual file *directly from the tape* bypassing any need to restore to disk first, meaning 50% less cost with no requirement for a spare D2D, immediate recoverability in any location within minutes not hours using a tape drive.





Barcode cloning

Preserves catalogue integrity for realistic recovery

Each backup job is indexed by the backup application allowing us to locate and recover files quickly and efficiently. Without a catalogue restores are at best incredibly time consuming and unrealistic for today's demands.

A major drawback of many disk-to-disk-to-tape solutions is that although they may create a copy of the backup on tape, it is transparent to the application and not indexed within its catalogue.

When it comes to recovering from such a tape the application has no reference and no way of knowing which backup or file is on any of the tapes. Recovery from such a position is long and unlikely to be realistic for today's demands.

Clone₂tape was designed from ground up to ensure absolute compatibility with the backup environment and practices, barcode and catalogue integrity is one such feature which ensures a realistic solution to everyday challenges.

Barcode cloning: *How does it work?*

Simplicity is the key to many a successful solution and clone₂tape implements a sensible and easy to administrate approach.

When physical media is loaded into the library which is connected directly to the VTL, the VTL reads the barcode information and then creates virtual tapes with the same barcode within the VTL and in turn presents them to the application. The application now sees new media with the same barcodes as those loaded into the physical library.

When the application completes a backup to a virtual media the VTL will automatically load the tape in the physical library with matching barcode and perform the duplication of the virtual media.....*Simple and effective*



Clone₂tape seamlessly migrates local or replicated virtual media to physical media attached directly to the VTL, no server or LAN impact.