



## Tape-by-wire

### Off-site replication for backup and recovery

#### AFFORDABLE SECURITY

Provides complete data security at realistic price points enabling professional disaster recovery solutions to be implemented at all levels

#### SMALL OR LARGE

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

#### MAXIMISES LINKS

With inbuilt compression and encryption, data is transferred in less time and privately.

- Focused on backup based applications, *tape-by-wire* provides a realistic 21<sup>st</sup> century off-site management solution
- Advanced recovery technology can get you up and running over 100 times faster than standard replication solutions.
- Can migrate to physical tape on remote site for archive, compliance or recovery needs
- Maintains barcode and application format throughout, ensuring catalogue consistency and fast recovery

For decades tape has been the only viable method of sending backup data off-site for safe storage and disaster recovery objectives.

With the rise of disk based backup solutions and increased communication performance, digital replication is clearly a modern-day alternative and alleviates the logistics and cost disadvantages of dispatching tape media.

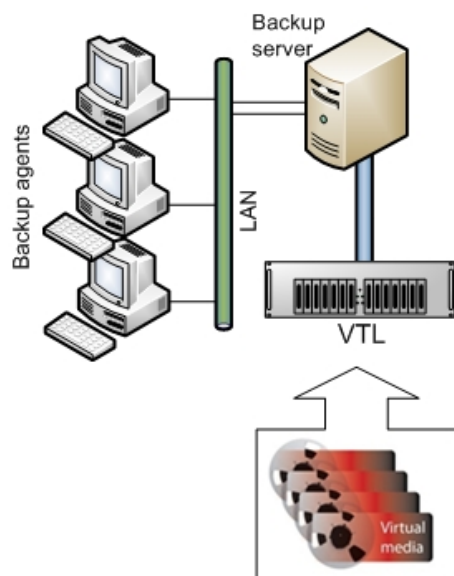
The process of creating off-site copies of backup data is to ensure recovery and whilst most disk based replication technologies offer a method of creating remote copies of data, they fail to offer realistic recovery plans due to a lack of backup application interaction or data structure.

ID7's *tape-by-wire* takes disk based replication a step further by addressing backup specific requirements and emulating off-site procedures.

Unlike standard disk replication, *tape-by-wire* preserves virtual tape format and barcode information ensuring that the backup applications cataloged remains consistent and accurate, allowing for swift complete or individual file recovery over WAN.

*Tape-by-wire* offers a range of solutions to suit the smaller office or department or larger multi-site organisation looking for a centralised recovery plan.

## The methods



Central to *tape-by-wire* is its simplicity. Regardless of how involved your backup configuration is, *tape-by-wire* can completely automate the cloning of your backup data to a remote site and onto physical tape media.

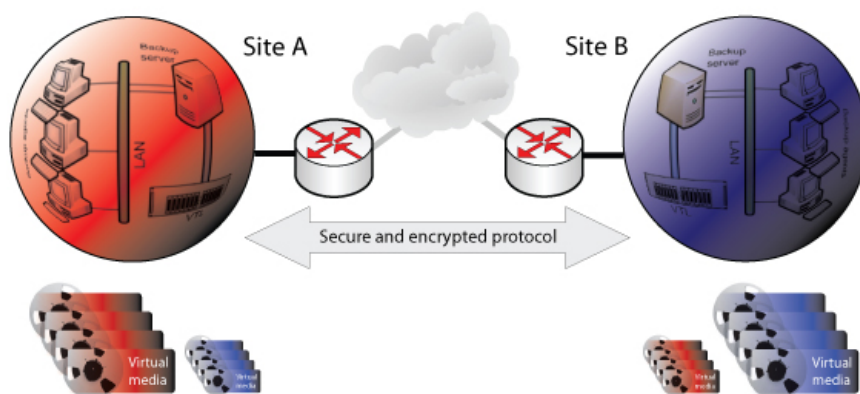
A typical backup configuration is shown on the left, the backup server collates data from multiple sources and sends it to a Virtual Tape Library.

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 creating virtual media. For example Virtual media with barcode 1234 may contain Sunday's full backup and virtual media barcode 6789 may contain Monday's incremental.

## one<sub>2</sub>one

For smaller businesses or departmental applications where a simple replication between sites is required, the *tape-by-wire* one<sub>2</sub>one solution provides an easy to implement and cost effective answer.

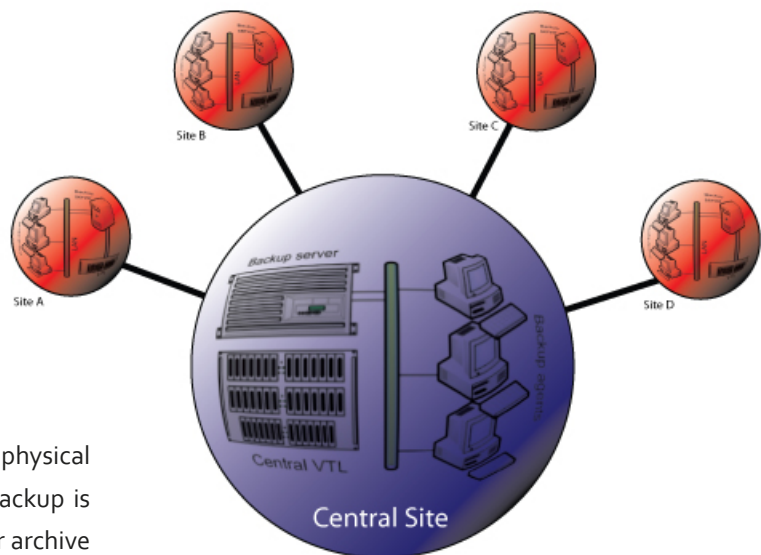
Virtual media is replicated between sites, allowing instant recovery from either site. Site B contains a clone of Site A's data and vice versa.





## many<sub>2</sub>one

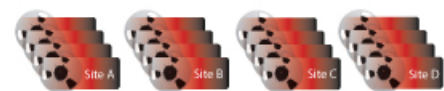
For the larger businesses and multi-site applications, *tape-by-wire's* many<sub>2</sub>one provides a powerful yet simple solution where virtual media from satellite offices is seamlessly replicated to a central location(s)



## clone<sub>2</sub>tape

For many applications a physical copy of the original VTL backup is required for safe keeping or archive purpose. ID7's clone<sub>2</sub>tape module interlocks with *tape-by-wire* and allows a replicated virtual media to be migrated to physical tape on the receiving side.

By preserving the original application format and barcode information, *tape-by-wire* ensures that the tape can be restored directly from physical tape without the need of a disk based solution or VTL as a middle stage.



Clone<sub>2</sub>tape seamlessly migrates local or replicated virtual media to physical media attached directly to the VTL with no server or LAN impact.



With support for single drive loaders to multi-drive large slot libraries, clone<sub>2</sub>tape perfectly interlocks with *tape-by-wire* to provide a full scale recovery solution for small and large businesses alike.



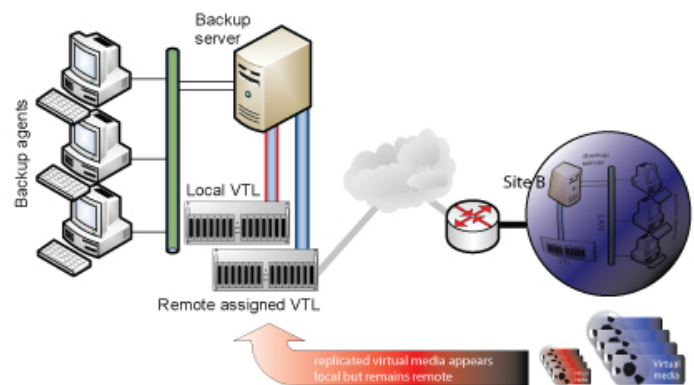
## It's all about recovery!

### Tape-by-wire improves recovery times by many hours!

Today all of us are under pressure to implement aggressive recovery objectives. For this reason, as well as standard recovery options, *tape-by-wire* incorporates unique remote assignment technology which ensures data can be accessed immediately from any authorised VTL connected via WAN without having to restore it first!

For example if for any reason you should require Site A to recover a file which is within a backup replicated to Site B, standard disk based products would require you to firstly replicate the entire image from Site B back to Site A. Even for a small backup, it could take hours before you can even start to restore any data!

*Tape-by-wire*, however, allows the remote backup to be presented as if it were local to your application and housed at Site A **without the need to replicate it back**. The application can simply restore the relevant file(s) without any synchronisation between Site B and Site A taking place, dramatically decreasing recovery time.



Unlike standard disk based replication solutions, *tape-by-wire*'s tape migration option ensures direct recovery from a physical tape media in disaster situations.

**Why are standard disk solutions ineffective for DR?** If we consider a standard backup to disk which is further replicated, most systems would not be able to migrate this replicated image to tape. Those that can migrate the actual image and not a virtual media. This means that in a disaster situation, firstly a similar disk solution would need to be sourced and implemented, the whole image would need to be restored and then the application could restore from the image. This is clearly not always going to be possible and would take many hours.

The barcode and format matched tapes created by *tape-by-wire* can be simply restored directly from a connected tape device, ensuring immediate access to data without the need to reinstate large capacity disk solutions.