



Changing The World of Storage

Simple, Scalable, and Turnkey Deduplication from Spectra Logic

The nTier family of Intelligent Secondary Storage appliances offer high-performance, extremely dense, and tape-aware solutions that now give you the option to enjoy the benefits and cost-savings associated with deduplication. nTier Deduplication appliances ship as a turnkey, pre-configured solution that is ready to use. Suited for organizations of any size, the nTier Deduplication product family helps you dramatically decrease your storage consumption with an average of 20:1 reduction in typical business environments, providing a logical capacity of over one petabyte of data.



nTier DEDUPLICATION

Scale from SMB to Enterprise

As your storage requirements increase, the nTier family scales to meet your storage demands, from 5 TB to 900 TB of logical storage. Add capacity in appropriately-sized increments, which arrive preconfigured and are ready for immediate use. nTier also increases in capacity as higher capacity disk becomes available.

Remote replication with global deduplication

Deduplication opens the possibility of affordable remote replication over a WAN because so little data needs to be transmitted to maintain a remote replica. If you have multiple remote sites, you can synchronize deduplication through a central nTier, globally deduplicating data from across the organization, minimizing not only disk space, but also network demands.

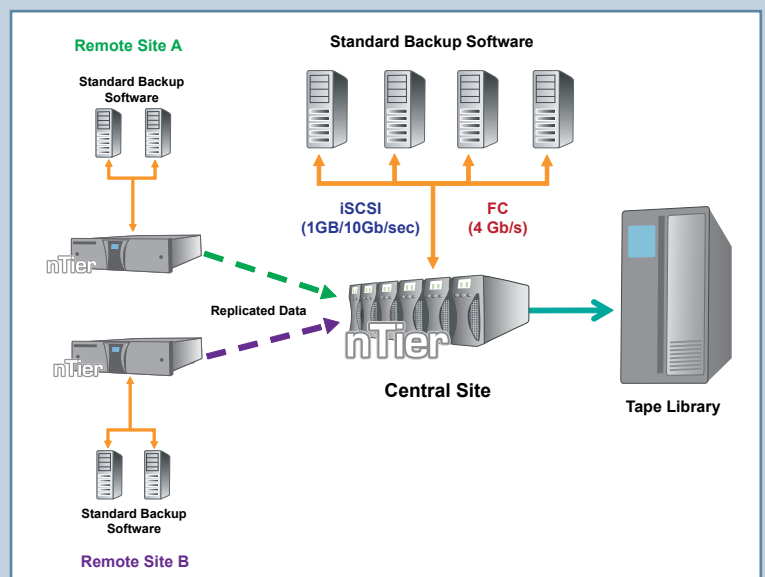
Seamless tape integration

Tape backup is essential for a comprehensive long-term data protection strategy. With nTier Deduplication, you can easily move data from the nTier to tape, through your backup software or through nTier Deduplication's integrated copy to tape functionality. With Spectra's expertise in tape, you can be sure that the nTier connects seamlessly to tape libraries, eliminating the tape and disk integration issues experienced with other deduplication solutions.

Easily add deduplication

nTier takes the hassle out of setting up deduplication in your environment, arriving ready for integration into your existing infrastructure. No modifications to your hosts or backup servers are required. Just install your nTier as a virtual tape library (VTL), and you are ready to target your nTier deduplication appliance with your existing backup applications, including:

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|---------------------------------------|---|
| <i>CommVault Galaxy</i> | <i>HP OpenView Storage Data Protector</i> |
| <i>Computer Associates BrightStor</i> | <i>Symantec Backup Exec</i> |
| <i>EMC Networker</i> | <i>Symantec NetBackup</i> |
| <i>IBM Tivoli Storage Manager</i> | <i>Syncsort Backup Express</i> |



Same backup environment – only better

nTier Deduplication optimizes backup time, keeping your backup window to a minimum. All data is copied directly to nTier disk, without any processing overhead. Only then, once the data is backed up, does nTier deduplicate data. This keeps your backup window short and your data secure. And with Spectra’s expertise in tape, you can also be sure that the nTier connects seamlessly to tape libraries—providing comprehensive data protection.

Technology you know and trust

nTier appliances feature FalconStor® Virtual Tape Library (VTL) with deduplication technology, giving you a tested and proven deduplication solution that is ready to implement into your environment.

- Keeps more backup data available near-line for a longer time, while maximizing storage capacity
- Post-process deduplication means no performance impact to backup jobs
- Only unique data resides on the system along with the deduplication index
- Global deduplication centralizes data storage and eliminates replication of redundant data
- More efficient storage utilization to minimize physical space consumed, for “greener” storage
- Minimizes bandwidth requirements, costs, and replication time between sites to optimize disaster recovery (DR)

nTier Deduplication Options



Product	nTier300 v20	nTier300 v80	nTier300 v120	nTier500 v160*	nTier700 vx000*
Logical capacity (10:1 - 30:1 Deduplication Ratio)	5 TB - 15 TB	40 TB- 130 TB	75 TB- 220 TB	105 TB- 320 TB	v1000: 60 TB- 175 TB v2000: 140 TB- 415 TB v4000: 300 TB- 890 TB
RAID level	Mirror (RAID 1)	RAID 6			
Dimensions (HxWxD)	5.25" (3U) x 19" x 27"/13.3 cm x 48.3 cm x 68.6 cm				6.9" (4U) x 17.5" x 41" 17.5 cm x 44.5 cm x 104.1 cm
CPU	Redundant Intel Xeon Multicore Processors				
Interfaces	Standard: 2x1 GbE, iSCSI Optional: 10 GbE, fibre channel to host, library via LVD SCSI & FC				Standard: 4x1 GbE, iSCSI, Optional: 1x 10 GbE, fibre channel to host, library via LVD SCSI & FC
Power	400 watts typical, 800 watts maximum; 7.0 amps				1200 watts maximum 10.0 amps
Hardware	3U 19-inch, four-post, rack-mount enclosure, hot-plug disks, redundant fans, N+1 power supplies				4U 19-inch, four-post, rack-mount enclosure, hot-plug disks, redundant fans, N+1 power supplies
Software	FalconStor VTL, deduplication, replication, BlueScale interface, global deduplication				

*Please check with your Spectra Representative for availability.