



Optica Technologies: zVT 5000-iNAS Introduction **A Fully Integrated High Availability IBM Mainframe VTL**

Value-4IT

zVT 5000-iNAS Introduction

The fully integrated zVT 5000-iNAS Virtual Tape Library (VTL) solution is a multiple node High Availability (HA) configuration, architected with a minimum of (2) zVT Virtual Tape Node (VTN) and (2) zVT Intelligent Storage Node (ISN) resources, to eliminate all single points of failure. The base zVT 5000-iNAS system incorporates (4) FICON channels and license support for 512 Virtual Tape Drive (VTD) resources. Two zVT ISN resources deliver 72 TB of mirrored, usable capacity. Standard hardware compression and deduplication functions deliver 288 TB (conservative 4:1 data reduction) of effective storage capacity. The ISN provides encryption of data at rest and in flight, WORM and replication features for secure data management and Disaster Recovery (DR) processes. Additional capacity can be added via a cost optimized Capacity Storage Node (CSN) option.

zVT 5000-iNAS Base Configuration Standard Features

Each zVT 5000-iNAS base configuration incorporates (2) VTN and (2) ISN resources with the following standard features:

- **Host Connectivity:** (4) 8Gbps FICON channel interfaces
- **Virtual Tape Drives:** (512) 3490/3590 Virtual Tape Drive (VTD) resources
- **Performance:** ~1,000 MB/S performance (based on typical IBM Mainframe tape workloads)
- **Storage Capacity:** 144 TB Raw/72 TB Useable/288 TB effective storage capacity
- **Data Reduction:** standard on-board hardware compression and data deduplication functions
- **Data Security:** WAN optimized data in flight and Data At Rest Encryption (DARE) functions
- **Data Compliance:** optional Write Once Read Many (WORM) function for data compliance
- **Configuration Management:** easy to use CLI, GUI and JCL interfaces
- **Form Factor:** optimized 9U footprint, incorporating inter node switching capability
- **Scalability & Resiliency:** multiple VTN (I.E. 2-8) and ISN/CSN (I.E. 2-165) configuration flexibility

zVT 5000-iNAS Benefits

Ultimately zVT is just another IBM Z Mainframe tape (I.E. 3490, 3590) device, benefitting from the latest IT market place technologies, packaged with a flexible architecture for affordable granular growth in terms of capacity, performance and availability:

- **Interoperability:** seamlessly works with all IBM Z disk and tape hardware and software storage solutions
- **Optimized DR:** intelligent data replication and cloning features simplify and automate DR testing
- **Standard Support:** supports all major IBM Z operating systems, Linux on z, z/OS, z/VM and z/VSE
- **VTL Filesystem:** uses industry standard AWS file format, simplifying VTL migration considerations
- **Granular Performance:** ~1,000-4,000 MB/S performance (I.E. 2-8 VTN), in ~500 MB/S increments
- **Granular Scalability:** ~288 TB-~1 PB single footprint capacity, scaling to a ~11 PB maximum capacity
- **Investment Protection:** zVT benefits from regular field upgradable technology updates, eradicating EOS concerns
- **Intelligent Support:** streamlined 24*7 support, for simplified diagnostics collection and problem resolution
- **Optimized Maintenance:** zVT leverages from the latest technologies to optimize on-going annual support costs

For more information please visit the [zVT Portal](#) or Email our [Sales Team](#) or call us on +44 (0) 845 0579386.

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