

## Virtual|BLUE 3990 opens a whole new world of options for mainframe DASD storage

Luminex's Virtual|BLUE 3990 is a mainframe DASD control unit that enables open systems disk storage solutions to operate as Mainframe DASD. Simply put - V|B 3990 eliminates the proprietary boundaries and vendor lock-in that separate the mainframe and open systems storage worlds, enabling mainframe enterprises to take advantage of the ever-increasing features and ROI benefits being delivered by the disk storage industry.



## Storage Management Choices!

By eliminating proprietary boundaries, V|B 3990 enables use of the entire range of open system storage management products for managing mainframe data. Open systems DR solutions can now be used to replicate mainframe data across very cost-effective IP, ftp, SAN and WAN protocols. Gone are the days of expensive channel extension.

## Keep your active data on-line, instead of on-tape

Now organizations can consider a much wider array of options to address their mainframe storage needs. Whether the need is for primary storage, secondary storage, increased on-line data and record retention, cost-effective tiered storage, or even space for the development and testing of new applications. V|B 3990 is the right solution.

## Applications

The capacity, functionality and ROI advantages of V|B 3990 open up a new world of options for the mainframe community. Now you can realistically and cost effectively add many terabytes of on-line storage to your mainframe. Think about the possibilities, efficiencies and savings that you can bring to your organization!

<b>DR Site</b>	▶ Use low cost IP, ftp, SAN and WAN protocols to replicate mainframe data to DR recovery sites
<b>Data Retention</b>	▶ Add another 30, 60, 90 or unlimited days of on-line data retention. Improve customer service, response times and get more done with your existing MIPS
<b>Tiered Storage</b>	▶ Implement a tiered storage approach that makes sense for your enterprise by reducing reliance on tape for production data while dramatically improving response times
<b>On-line Data</b>	▶ Keep your active data on-line instead of on-tape
<b>Efficiency</b>	▶ Spend less time moving your data around and more time using it
<b>Space where you need it</b>	▶ Give your developers the DASD space they need to efficiently develop and test new applications
<b>Storage Consolidation</b>	▶ Leverage all of the available open systems storage capacity and infrastructure in your enterprise
<b>Unification</b>	▶ Unify your storage management practices across the enterprise

## Features & Benefits

- IBM TotalStorage Proven
- SNIA/SNW interoperability Lab tested (Spring 2004)
- Certified with TotalStorage Virtualization San Volume Controller from IBM
- Certified with TDMF Mainframe from Softek
- Certified with FDRPAS from Innovation Data Processing
- Multi-host and Multi-LPAR
- Simultaneous 3380 and 3390 mode support
- Up to 50 Terabytes of DASD storage, increasing to up to 100+ Terabytes (Q4 2005)
- Up to 1024 devices, increasing to 4096 devices (Q4 2005)
- 2 to 8 ESCON channels
- Multiple FICON channels (Summer 2005)
- Flex-Volume support allowing the user to set the size & type of each logical volume
- Single, dual and 4-Way processor configurations
- High performance transaction cache
- High-speed record level caching with 100% Fast Write capability
- Fibre, RAID, SAN, SCSI, iSCSI, NAS & JBOD ready
- 3 year warranty
- Maintenance fees are a fraction of traditional DASD
- No vendor lock-in

*"Virtual|BLUE 3990 should be examined by companies looking for external disk storage for their z800 systems and by anyone needing cost-effective capacity disk for their mainframe."*

*David Hill, Vice President,  
Storage Research  
Aberdeen Group*



## About Luminex

Luminex develops distinctive data storage products that tackle the complex challenges of storing, archiving, distributing and protecting data. Complemented by quality customer service, Luminex's innovative products create real value for our customers. Luminex's Virtual|BLUE™ line of mainframe channel attach products link IBM and plug-compatible mainframes with the open systems world of servers, disk storage, tape libraries and peripheral solutions, resulting in improved operations and economics for mainframe data storage and management. Luminex's Data|WARE™ product family simplifies CD and DVD creation for small to large businesses in finance, healthcare, prepress, government and education.

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## V|B 3990 has all the right specs!

The product is based on highly available, scalable and open systems server platforms with embedded Luminex control unit technology. The result is a DASD control unit that delivers an impressive list of benefits and values.

### Capacity

- 3380, 3390-3,-9,& -27 DASD volumes
- Up to 4096 devices (Q4 2005)
- Up to 100+ TBytes of total storage capacity! (Q4 2005)
- 3380/3390 simultaneous support

### Reliability, Accessibility and Serviceability

- Replicate data over the network with standard open systems tools
- Data integrity with non-volatile writes
- 3 year warranty
- Remote Support and Diagnostics

### Connectivity

- 2-8 ESCON ports using Luminex's proven 64 bit ESCON technology
- Multiple FICON ports (Summer 2005)
- Open systems storage connectivity and interface options are supported including: Fibre channel, SAN, Raid, iSCSI, SCSI, NAS and JBOD ready.
- VB3990 can be installed into existing SAN environments

### Scalability

- Easy CU server upgrade path, choose the CU performance that best suits your needs, application and budget. Single, dual and 4 way processor configurations are available

### Compatibility

- IBM TotalStorage Proven
- TDMF Mainframe from Softek certified
- FDRPAS from Innovation Data Processing certified
- Full compatibility with open systems storage products
- SNIA Interoperability testing (Spring 2004)
- Supports z/OS, VM, VSE, OS/390, MVS, and VM/Linux

### Service and Support

- Luminex provides a full suite of support options

