

# The NetBackup Flex 2 Operating Environment on the 5340 Appliance

Consolidate NetBackup data protection in the enterprise core.

VERITAS™

## OVERVIEW

Data protection in the central data center requires the capacity and performance to support the most demanding workloads. The Veritas NetBackup™ Flex 2 operating environment running on the 5340 Appliance with its 2-PB capacity, ransomware resiliency, high availability, 10-Gb Ethernet and 16-Gb Fibre Channel I/O provides a robust, cost-effective solution for the enterprise core.

Based on container technology, the Flex 2 operating environment extends NetBackup data protection with multitenant capabilities to reduce data center costs, improve management efficiency and protect against ransomware and security threats.



Veritas 5340 Appliance

## SOLUTION HIGHLIGHTS

### Ransomware resiliency.

The Flex 2 operating environment delivers new levels of security and ransomware resiliency, with policy-based immutable storage providing confidence in rapid recovery from ransomware attacks without specialized or dedicated storage hardware.

### Reduce costs with consolidation.

Consolidate multiple NetBackup deployments on a 5340 Appliance with the multitenant capabilities of the Flex 2 operating environment. Drastically reduce the number of server and storage devices requiring setup, management, maintenance, power, cooling, cabling and floor space—significantly reducing data center costs.

Fibre Channel support available with the Flex 2 operating environment provides the capability to consolidate multiple NetBackup tape deployments on a 5340 Appliance.

### On-demand response to rapidly changing business environment.

Rapidly deploy infrastructure by configuring application instances into a complete data protection solution. Build systems to meet the specific information needs of a department or business unit.

### Improve uptime with high availability.

High availability provides efficient use of hardware resources in normal operating conditions and higher uptime in case of failure. In a high-availability configuration, the 5340 Appliance running Flex 2 distributes application instances across two nodes. In the event of failure, you can restart the application instances in the surviving node. The ability to relocate an application instance from one node to another allows for greater control and efficiency in managing preventive maintenance.

### Proactive monitoring with Veritas AutoSupport.

Monitors key hardware components and notifies the administrator of fault events.

### NetBackup Flex 2 Operating Environment Application Instances

NetBackup master server
NetBackup media server with advanced disk storage pool
NetBackup media server with deduplication pool and cloud option
NetBackup WORM Storage Server

TECHNICAL SPECIFICATIONS	5340 APPLIANCE		STORAGE SHELF
Number of server nodes	1	2	NA
Minimum system usable capacity (TB) <sup>1</sup>	120 TB	120 TB	NA
Storage shelf usable capacity (TB) <sup>1</sup>	NA	NA	120, 240, or 480 TB (Dependent on number and capacity of drives installed in Shelf)
Storage shelves (max)	4	4	NA
Max system usable capacity (TB) <sup>1</sup>	1.92 PB	1.92 PB	NA
1 Gb Ethernet ports	4	4 (2 used for internode communication)	NA
10 Gb Ethernet ports <sup>2</sup>	2 to 10	4 to 20	NA
16 Gb Fibre Channel ports <sup>3</sup>	Up to 8	Up to 16	NA
Server Node & Storage Shelf dimensions H x W x D (inches)/(cm)	(3.5 x 19.0 x 30.5) / (8.9 x 48.3 x 7.9)	(3.5 x 19.0 x 30.5) / (8.9 x 48.3 x 76.9)	(8.75 x 19.0 x 36.75) / (22.3 x 48.3 x 93.3)
Max weight per component, with disk drives (lbs/kg)	43 / 19.5	43 / 19.5 <sup>4</sup>	282/131
Typical power consumption (watts)	300	600 <sup>4</sup>	1,047
Max power consumption (watts)	600	1,200 <sup>4</sup>	1,243
AC voltage range (Volts) (Compute node voltage is auto-ranging)	90 to 140 180 to 264	90 to 140 180 to 264	200 to 240
AC frequency range (Hz)	47 to 63	47 to 63	50 to 60
Max ampere ratings (A)	3.03 (200V to 240V)	3.03 (200V to 240V)	5.65 (200V to 240V)

ENVIRONMENTAL SPECIFICATIONS	5340 APPLIANCE	5340 APPLIANCE HIGH AVAILABILITY CONFIGURATION	EXPANSION SHELF
Operating Temperature (°F)/(°C)	(50 to 95) / (10 to 35)	(50 to 95) / (10 to 35)	(41 to 95) / (5 to 35)
Storage Temperature (°F)/(°C)	(-40 to 158) / (-40 to 70)	(-40 to 158) / (-40 to 70)	(-40 to 158) / (-40 to 70)
Operating Humidity	10 to 80%	10 to 80%	10 to 80%
Operating altitude (ft)/(m)	(100-9,842) / (30.5-3,000)	(100-9,842) / (30.5-3,000)	(-328-9,842) / (-1000-3,000)
Max noise (dBA)	82	82	82
Typical Cooling (BTU/hr)	1,024	2,047	3,573
Max cooling (BTU/hr)	2,047	4,094	4,241

#### WARRANTY COVERAGE

One (1) year parts replacement and 90 days software.

#### MANAGEMENT

Through existing NetBackup Graphical User Interface.

#### PROTOCOL STANDARDS FOLLOWED

IPMI 2.0, SMBIOS 2.5, SAS 2.0a, ACPI rev 3, IP RFC0791

#### SAFETY AND EMC STANDARD COMPLIANCE

GB4943-2001, IEC 60950-1, UL 60950-1, FCC 47 CFR Part 15 Subpart A, EN 60950-1, EMC Directive 2004/108/EC, EN 55024: 1998+A1+A2, LVD Directive 2006/95/EC

1. Capacity values are calculated using Base2, (i.e. 1 TB = 1,099,511,627,776 bytes).

2. Each node has 2 x 10 Gb Ethernet ports available as a base configuration.

3. Each node has 0, 2, 4, 6, or 8 Fibre Channel port configurations available. In addition, each node has 4 dedicated Fibre Channel ports reserved for storage attach.

4. Two server nodes in each configuration.

## ABOUT VERITAS

Veritas Technologies is a global leader in data protection and availability. Over 50,000 enterprises—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at [www.veritas.com](http://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

2625 Augustine Drive, Santa Clara, CA 95054  
+1 (866) 837 4827  
[www.veritas.com](http://www.veritas.com)

For specific country offices and contact numbers, please visit our website.  
[www.veritas.com/company/contact](http://www.veritas.com/company/contact)

**VERITAS**<sup>™</sup>