

# Infrascale

## Data Protection Appliances

Provide a complete backup/restore, archiving and disaster recovery solution for enterprise data.



**Infrascale Data Protection Appliances** are available as physical or virtual appliances both with cloud storage included. Infrascale appliances protect data residing on all of the major operating systems and virtual machine environments found in enterprise computing environments.

## Key Features and Functions

- ➔ Provides full backup of your data with version history that lets you roll back to any previous backup date you choose
- ➔ A powerful and easy to use administrator’s dashboard makes it simple to manage
- ➔ Automatic active-passive replication where a primary physical or virtual appliance backs up data at one site and replicates that backed up data to a second passive physical or virtual appliance at a second site, or to the cloud
- ➔ Automatic active-active replication where each site has a primary physical or virtual appliance that backs up that site and a passive appliance that receives a backup of the other site’s primary appliance. Appliances can be physically distant, providing for disaster recovery in case of disaster at one site
- ➔ Agentless or “host level” backup of virtual machines, so you can back up virtual machines without requiring any software to be installed on the individual virtual machines. Options for backup/restore of entire virtual machine image or specific subsets of data
- ➔ Bare Metal Backup and Restore for physical or virtual servers
- ➔ Dashboard apps for Apple and Android mobile devices make it easy for mobile administrators to manage the appliances
- ➔ Agent-based backup of physical servers, regardless of virtual platform, operating system or type of storage
- ➔ Comprehensive support for all major server operating systems (see supported operating systems)
- ➔ Enterprise-grade performance with up to 1.4 TB per hour sustained backup/restore speeds
- ➔ File de-duplication with up to 10X reduction in backed up data size makes for highly efficient backups. File block de-duplication provides additional reduction in backed up data size
- ➔ Removable archive drive enables you to remove a hard drive from the physical appliance and store it off site in a secure location
- ➔ Host-level virtual machine backup, with no –per socket pricing

## Operating system and platform support



**Linux:** Ubuntu-, Red Hat-, SuSE-based distributions; server and desktop environments



**Windows:** 2000 SP3, 2000 SP3 R2, 2000 SP8, 2000 SP8 R2; XP SP1, XP SP2, XP SP3; Vista SP1, SP2; 7, 7 SP1; 8, 8.1; Server 2003 SP1, Server 2003 SP2, Server 2003 Data Center edition, Server 2003 Enterprise Edition, Server 2003 Standard Edition, Server 2003 Web Edition; Server 2008 Datacenter, Server 2008 Enterprise, Server 2008 Foundation, Server 2008 SP 2, Server 2008 Standard, Web Server 2008, Server 2012 Datacenter, Server 2012 Standard, Server 2012 Foundation, Server 2012 Essentials, Server 2012 R2

### UNIX

**Unix:** Solaris 10, 11, 11.1, 11.2 – x86 and SPARC; HP-UX 11iv1, 11iv2, 11iv3; SCO OpenServer 6.0 MP1, MP2, MP3, MP4



**VMWare:** ESXi 4.0, 4.1, 5.0, 5.1, 5.5 – backup/restore of full image or granular file & application level restore



**OS X:** 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 10.10



**Netware:** 5.1 SP 8, Netware 6.5 SP 8; OES 1.0 SP1, SP2; OES 2.0 SP1

## Specifications for Virtual Appliance

<b>Protected data size</b>	<i>Unlimited, depends only on available storage</i>
<b>Backup &amp; restore speed (1 GB Ethernet)</b>	<i>150 GB – 200 GB per hour, based on available resources</i>
<b>Backup &amp; restore speed (10 GB Ethernet)</b>	<i>n/a</i>

	System requirements		
	disk 1	disk 2	disk 3
Minimum disk space	2 GB – boot volume	180 GB – database volume <i>(should be SSD)</i>	2 TB (or larger) – backup storage volume
Recommended disk space	4 GB – boot volume	360GB – database volume <i>(should be SSD)</i>	2 TB (or larger) – backup storage volume
CPU	2 x 3 GHz processors (or better)		
Minimum RAM memory	16 GB		
Recommended RAM memory	48 GB		
Operating system	Delivered as a VMWare virtual machine		

## Specifications for Physical Appliances

Model	ES 1500	ES 2700	ES 4500	ES 9500
Storage size (raw)	2 - 8 TB	9 - 36 TB	30 - 80 TB	88 - 176 TB
Backup speed (bonded 1 GB Ethernet)	200 GB per hour	700 GB per hour	1 TB per hour	1 TB per hour
Backup speed (10 GB Ethernet)		1 TB per hour	1 TB per hour	1 TB per hour

Processor, Memory, Network, Disk				
CPU	Intel Multi-Core	Intel Multi-Core	Intel Multi-Core	Intel Multi-Core
Memory	12 GB	32 GB	48 GB	96 GB
1 GB Ethernet ports	2	4	6	6
10 GB Ethernet ports	n/a	2 (optional)	2 (optional)	2 (optional)
RAID level	5, 10	5, 6 or 10	5, 6 or 10	5, 6 or 10
Hard disk drives	4	12	24	48

Dimensions				
Form factor	1U	2U	4U	9U
Width (in.)	17.2	17.2	17.2	16.9
Depth (in.)	19.8	25.5	26	27.2
Height (in.)	1.7	3.5	7	15.6
Weight	38	52	75	155

Power				
Watts	280 W	920 W	1200 W	1620 W
Voltage	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V
Frequency	50 - 60 Hz	50 - 60 Hz	43 - 63 Hz	43 - 63 Hz
Power supplies	1	2	2	4