



Arxys | Shield-Prime & Core



Arxys | Shield-Prime & Core with Open-E JovianDSS delivers the intense multi-streaming throughput and data resilience required by advanced video management systems at the lowest Total Cost of Ownership. It is the protected IP Camera video storage security and surveillance platform of choice when security matters.

Arxys | Shield-Prime & Core high-density storage servers are designed for mid to large enterprise security installations. Advanced caching, high-performance enterprise grade drives and 128bit ZFS technology deliver leading edge performance with efficiency. The combination of high throughput and advanced data protection makes the Arxys | Shield-Prime & Core optimized for video streaming and archiving.

Key benefits:

- Highest multi-streaming bandwidth available
- Compatible with all leading Video Management Servers
- Lowest Total Cost Of Ownership storage server
- Scale-up technology delivers future-proof security

With advanced hardware failover mechanisms, IP Camera video surveillance systems built on Arxys | Shield-Prime & Core ensure sensitive video data is accessible. The server is optimized for high performance and scalability for high bandwidth applications where maximum uptime is not critical.

- > Guaranteed data protection
- > Enhanced storage performance
- > Flexible scalability
- > Optimized for Private Cloud
- > Data integrity check
- > Thin provisioning
- > Tiered RAM and SSD Cache
- > Unlimited number of snapshots and clones

Guaranteed data protection

Data is your most important resource. This is why the Open-E JovianDSS-based Arxys | Shield-Prime & Core includes several mechanisms for data protection. Automatic and scheduled multi-layer data integrity checks ensure data consistency, while unlimited snapshots and clones make it is easy to implement a disaster protection strategy and to instantly roll back to a previous point-in-time. At the same time, a scheduled self-healing mechanism fixes malfunctions and automatically restores full data redundancy in the system. Even when a disk fails, the software-based spare function offers one disk to several RAID arrays, saving you money on extra hardware without compromising data safety.

Enhanced storage performance

Nowadays, enterprise storage has to provide big capacity while also being fast, affordable and include reliable support. This is exactly what Arxys | Shield-Prime & Core has to offer. Open-E JovianDSS-based Arxys | Shield-Prime & Core is an innovative hybrid storage system fusing the capacity of HDDs with the performance of SSDs in a single solution that offers high performance while lowering cost. Additionally, by leveraging capacity optimization technologies and advanced tiered SSD and RAM caching, Arxys | Shield-Prime & Core provides an overall efficiency boost and increased cache performance. On top of that, powerful tuning tools allow the system to optimize on I/O heavy databases or high throughput video editing equally well and predefined profiles save annoying testing time.

Flexible scalability

The Arxys | Shield-Prime & Core will let you experience unlimited flexibility and minimize unappreciated downtime. Open-E JovianDSS uses a 128-bit file system that includes unlimited snapshots for easy backup, unlimited clones for easy duplication, unlimited capacity with volume sizes up to one Zetabyte, as well as unlimited amount of disks which can be increased on the fly without effort by using thin provisioning. There are no limitations and you may easily control the total cost of ownership and expand your storage infrastructure as data grows.

Optimized for Data Centers

A private cloud combines flexibility and scalability of a public cloud with the isolation and security required by many large organizations, since the storage system is located at your desired location. It is an ideal solution for service providers (MSPs), independent software vendors (ISVs), and resellers that manage resources for their end users. With Arxys | Shield-Prime & Core you get to design your own redundant environments and can easily distribute access to resources across various teams in your organization. It is a very secure solution that gives you total control over your data and allows you to grow as your company grows.

Certified Results



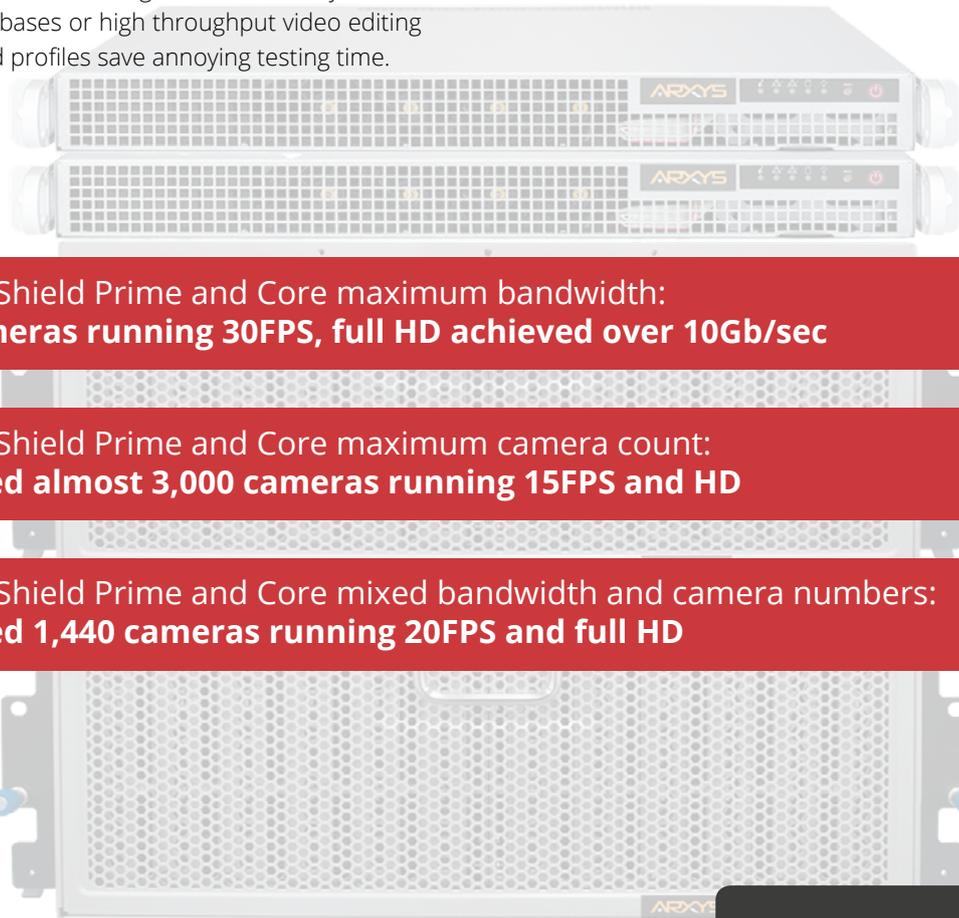
Arxys | Shield Prime and Core maximum bandwidth:
896 cameras running 30FPS, full HD achieved over 10Gb/sec



Arxys | Shield Prime and Core maximum camera count:
Achieved almost 3,000 cameras running 15FPS and HD



Arxys | Shield Prime and Core mixed bandwidth and camera numbers:
Achieved 1,440 cameras running 20FPS and full HD



High Performance Security and Surveillance Storage Server Platform

Data integrity check

The Arxys | Shield-Prime & Core storage system effectively detects data corruption, as even minor integrity violations could cause loss of data. Arxys | Shield-Prime & Core ensures reliability by check-summing individual blocks of data and once faulty blocks have been detected they are automatically rewritten. If the same error is found several times the data blocks are moved to different parts of the HDD. Each read/write is checked automatically plus you can schedule to perform checks on not accessed blocks. All actions are done in atomic writes to ensure consistency of your data and to reduce data loss, even during power cuts.

Thin provisioning

Arxys | Shield-Prime & Core uses thin provisioning to improve your storage utilization by allocating just the exact amount of server space at the time it is required. You'll eliminate the cost of unused storage space and never again have to pre-allocate storage up front and buy too much hardware. In Arxys | Shield-Prime & Core there is no need for evaluating storage requirements and take the risk of rebuilding the entire system when it runs out of space. With this system it is easy to manage storage capacity and set notifications when physical space shrinks. This is a highly scalable solution – just add physical disks as your data grows.

Tiered RAM and SSD Cache

Open-E JovianDSS-based Arxys | Shield-Prime & Core works as a tiered storage environment - dramatically speeding up access to frequently accessed files. It uses a caching algorithm to cache "often used" and "recently used" data separately, and provides the best performance for your storage by tiering hot data between RAM and SSD Cache. In Arxys | Shield-Prime & Core data is always saved on HDDs and only Hot Data is stored in RAM and SSD to ensure data safety and increase performance.

Unlimited number of snapshots and clones

Every Open-E JovianDSS-based Arxys | Shield-Prime & Core allows an unlimited number of snapshots and clones – greatly simplifying back-ups, replications and data recreation in case of accidental deletes or viruses. Snapshots are read-only points-in-time and allow for easy roll-back. They are a must-have option for effective disaster recovery scenarios and in Arxys | Shield-Prime & Core you may schedule snapshots for months, weeks, hours or even minutes. Whereas, a clone is a writable copy of a snapshot and allows to easily duplicate virtual machines and scale out for virtual networks instantly and without duplicating data.



Hardware details

	Default configuration	Options
CPU	Intel® Xeon® CPU E5-1620 v4 3.50GHz	Dual Intel® Xeon® CPU E5-2620 v4 2.10GHz
RAM	32GB DDR4 2,133MHz	Up to 512GB
Raw capacity	460TB	Up to 1.2PB
HDDs	56 x HGST Ultrastar He8 HUH728080AL5200 8TB 4 x SSD SDLL1MLR-032T-CCA1 3,2TB	-
Read cache	-	Available
Write log	-	Available
Hard drive interface	AOC-S3008L-L8e	-
Network interface	2 x Intel® Ethernet Converged Network Adapter X520	-
Form factor	1U	Optional 2U



Arxys

Arxys is programmable storage infrastructure that powers performance, scale and efficiency. By combining storage, compute, networking and virtualization on commodity hardware, Arxys orchestrates the complexity of disparate systems into an optimized solution. Arxys' Software Orchestrated Storage solutions scale to fit your needs today, while scaling for the future without forklift upgrades. Arxys delivers enterprise class speed with business efficiency and warranted business continuity all at the lowest TCO in the industry. Crafting storage solutions for more than 2,000 of the most demanding organizations for more than 25 years, Arxys is Storage, Orchestrated.

About Open-E

Open-E is a well-established developer of IP-based storage management software. Open-E JovianDSS and Open-E DSS V7 are robust, award-winning enterprise storage applications which offer excellent compatibility with industry standards, and are the easiest to use and manage. Additionally, they are some of the most stable solutions on the market and undisputed price/performance leaders. Open-E accounts for over 27,000 installations world-wide and has received numerous industry awards and recognition. Thanks to our reputation, experience and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies.

For further information about Open-E, its products and partners, visit <http://www.open-e.com/>

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About the Open-E JovianDSS Server Certification

Open-E JovianDSS delivers software-defined storage which results in a wide variety of different hardware requirements such as performance range, capacity capability, and connectivity. To ensure compatibility and robust storage environments, all selected partners offer storage systems which are tested, benchmarked and certified by Open-E. This way, customers are able to use solutions that require exceptional security and redundancy, without compromising performance.