

Orion S3 is the answer to the challenges of digitization and unabated data growth. The joint solution of PoINT and BDT is optimized for the use in data centers: it provides standardization on hardware and software level. The combination of the rack-mountable Orion MC6 tape library and the S3-to-Tape solution PoINT Archival Gateway meets the highest demands in terms of scalability, performance, security, sustainability and cost-effectiveness for the storage of large amounts of data.

## FEATURES

- Integration of the BDT Orion MC6 tape library via S3
- Direct writing to tape, no hard disk buffer required
- High throughput rates due to parallelization
- Flexible scalability in capacity and throughput
- S3 and S3 Glacier compatibility (including Lifecycle Policies)
- Erasure Coding
- Object Locking, authentication and encryption
- Optimized for hyperscaling and cloud environments

## BENEFITS

- Investment protection through standardization
- Easy integration into the data center thanks to standardization
- Highly scalable overall solution
- Cost-efficient solution for multiple use cases
- High level of protection against cybercrime and ransomware attacks

## Technical Data ORION S3

Form Factor	21" Rackmount
Number of Modules	7
Available Modules	Base Module, Drive Expansion, Tape Expansion
Total Height Units	42
Maximum Number of Tape Slots	974
Number of Drives per Module	3 Full Height
Maximum Number of Drives	21
Drive Connectivity Options	FC or SAS
Supported Drive Generations	LTO 9 and later
Number of Power Supplies	2 per module (Base and Drive Expansion)

## **USE CASES**

All S3-capable applications (S3 as well as S3 Glacier) can use PoINT Archival Gateway to store data on the Orion MC6 Library and benefit from the associated advantages of scalable S3 object storage.

### **S3 Backup**

Orion S3 enables cloud-based backup services on tape via the S3 protocol. Customers benefit from physical air-gap and protect their data from ransomware, for instance.

### **Hyperscale Computing**

The combination of the BDT Orion MC6 Library with PoINT Archival Gateway addresses application areas that require highly scalable solutions. Both components offer flexible scalability and achieve a particularly cost-effective and secure data storage on tape media.

### **Managed Service Provider**

With Orion S3 storage service providers can expand their portfolio with a cost-effective, tape-based Glacier storage class. Users benefit from the comprehensive functionality of Orion S3 for archiving of cold data as well as for replication and recovery.

## **HSM & Archiving**

Thanks to the advanced functionality of PoINT Archival Gateway Orion S3 offers a flexible and highly scalable solution to archive large amounts of data in a legally compliant manner. For example, PoINT Archival Gateway protects data from accidental or premature deletion and intentional modification (e.g. through ransomware attacks).

### **Research & Analytics**

PoINT Archival Gateway allows direct data streaming to tape via the S3 interface. This greatly simplifies research data management. Analysis data is written with high performance directly to tape and archived there securely and scalably until further use.

### **Object Storage Tiering & Replication**

Orion S3 is the answer to two central challenges in the context of disk-based on-prem object storage. The solution provides a tape-based S3 storage class, which can be used as target for backup and replication as well as for tiering of cold data to relieve primary storage of inactive data.

### **Configuration Options**

The BDT Orion MC6 Library in combination with PoINT Archival Gateway offers very flexible configuration options in terms of capacity (number of slots) and throughput (number of drives).