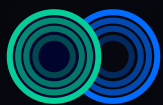


Introduction to USP

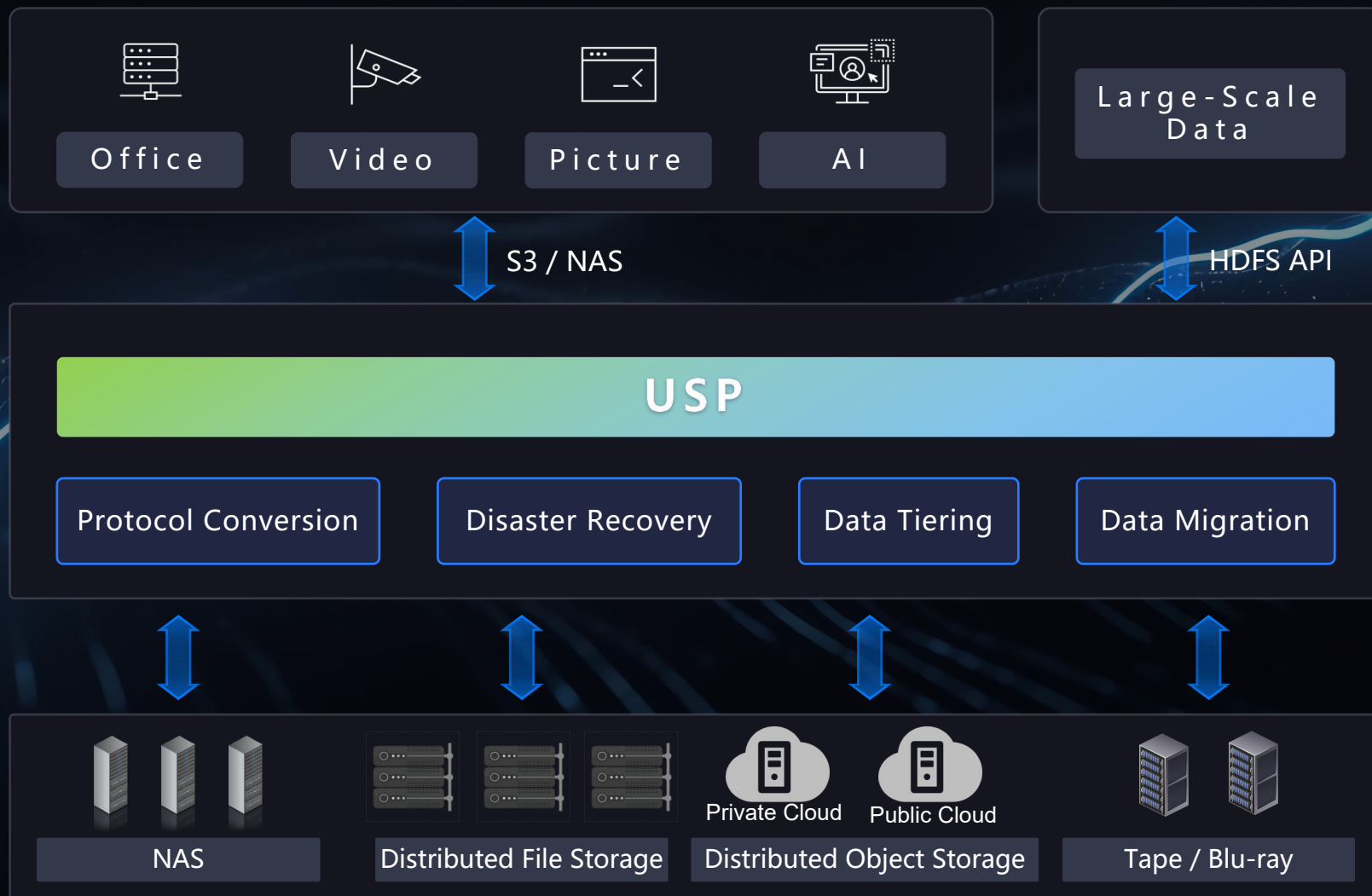
— **U**nstructured **D**ata **S**torage **P**latform

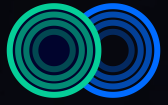


Product Overview

U S P P R O D U C T I N T R O D U C T I O N

The Unified Storage Platform (USP) is designed to seamlessly manage a variety of storage devices, including NAS and Distributed Object Storage. It provides consistent file and object storage services to upper-layer applications, ensuring a unified and efficient storage experience. USP provides advanced capabilities in data distribution, operations, protection, and governance, ensuring optimal data management and utilization.





Cross-Storage Data Disaster Recovery

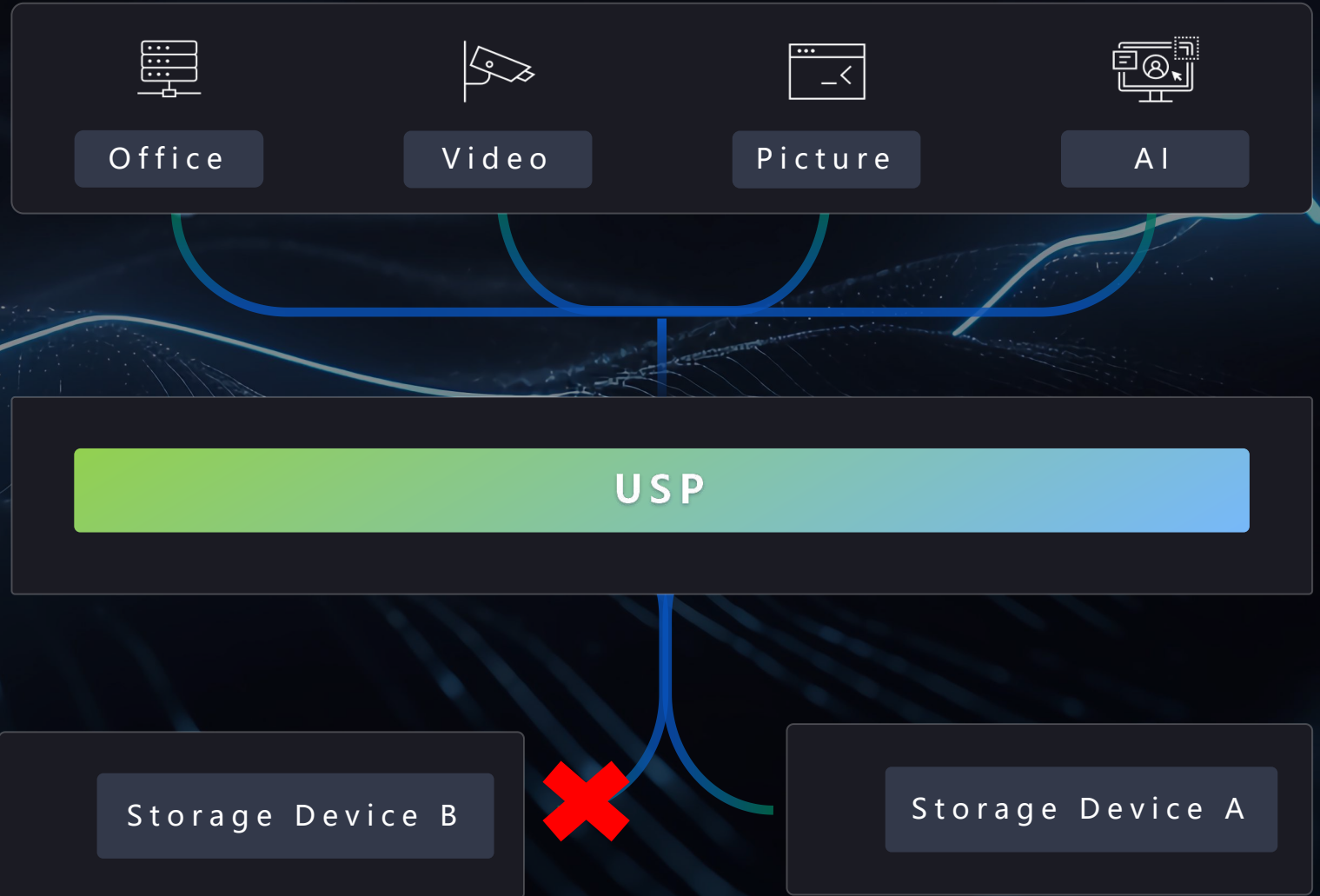
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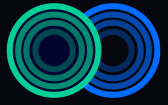
Pain Points

Core business systems demand real-time disaster recovery across storage systems and data centers to ensure high data availability.

Advantages and Value

- ✓ Adopts a flexible multi-copy strategy that empowers clients to choose between synchronous and asynchronous backups based on the business needs.
- ✓ Offers compatibility with various primary and secondary storage systems for streamlined integration.
- ✓ Provides automatic, seamless failover to secondary storage in the event of a primary storage outage.
- ✓ Facilitates deployment of primary and secondary storage across geographically dispersed data centers and hybrid cloud infrastructures, including both private and public clouds.





Data Processing

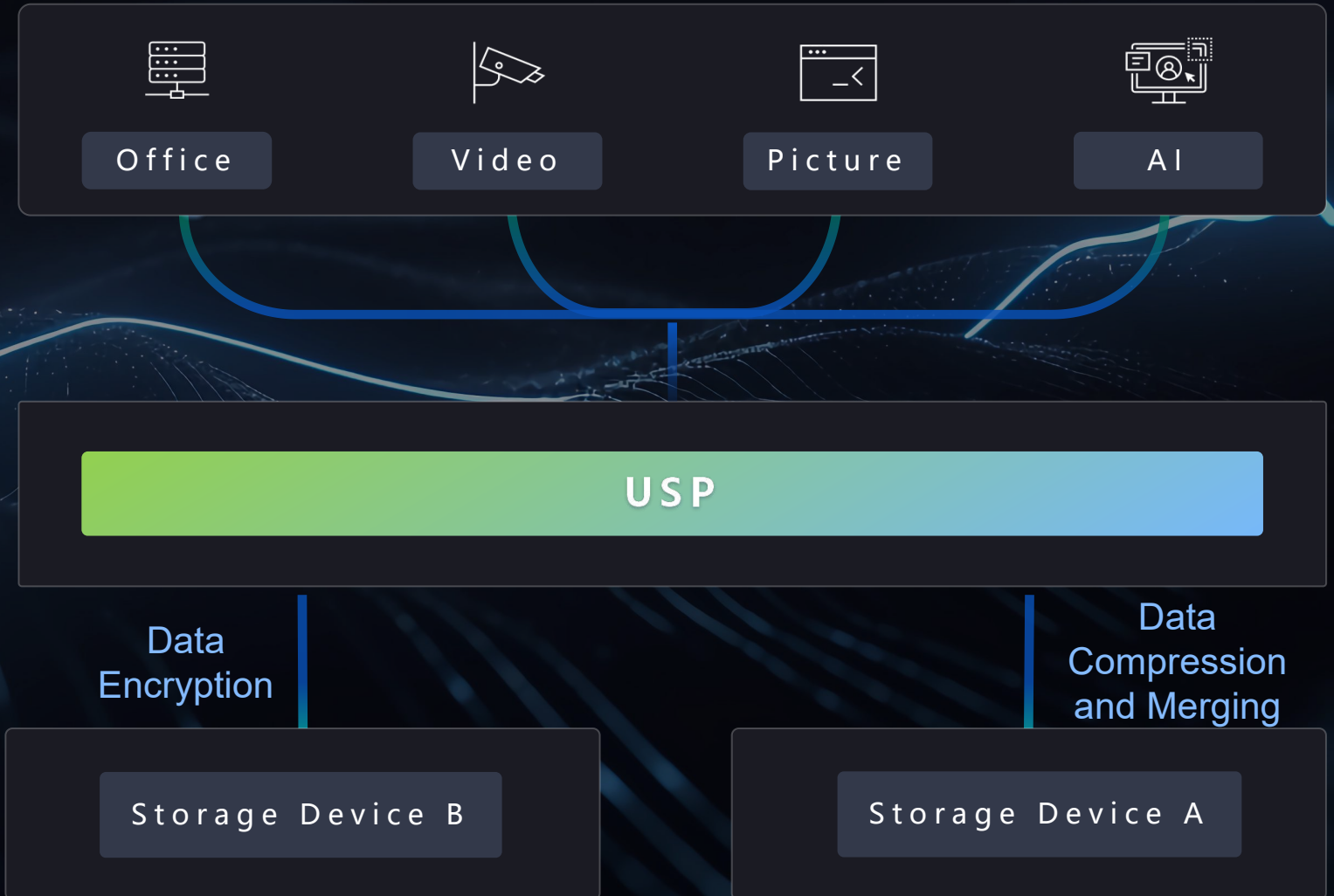
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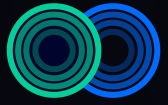
Pain Points

Encryption must occur prior to writing data to storage, but direct encryption at write time may degrade performance given the high file volume.

Advantages and Value

- ✓ Pre-processes data before storing it by performing tasks such as encryption, especially prior to storing it in the public cloud.
- ✓ Compresses video data to optimize storage usage for users.
- ✓ Merges small files into larger composite files to boost write performance in high-volume file scenarios.





Automated Data Tiering

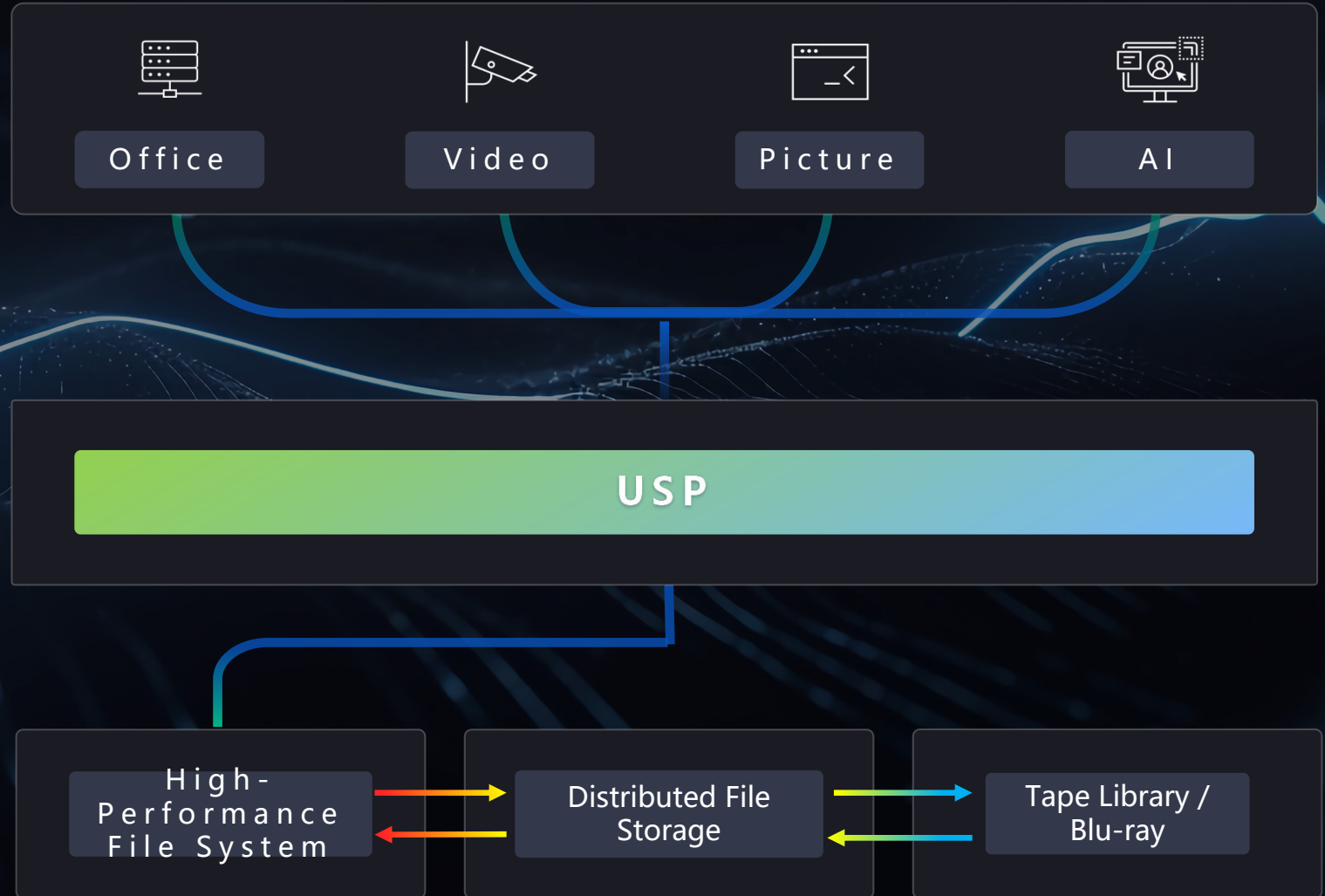
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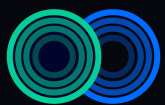
Pain Points

A significant portion of the system's data is rarely accessed, contributing to elevated storage expenses, extended retrieval durations, and increased operational complexity.

Advantages and Value

- ✓ Implements access frequency monitoring to enable automated tagging of business data for optimized storage and management.
- ✓ Automates data migration across storage infrastructures by leveraging these tags, resulting in substantial cost savings.





Customer Platform Integration

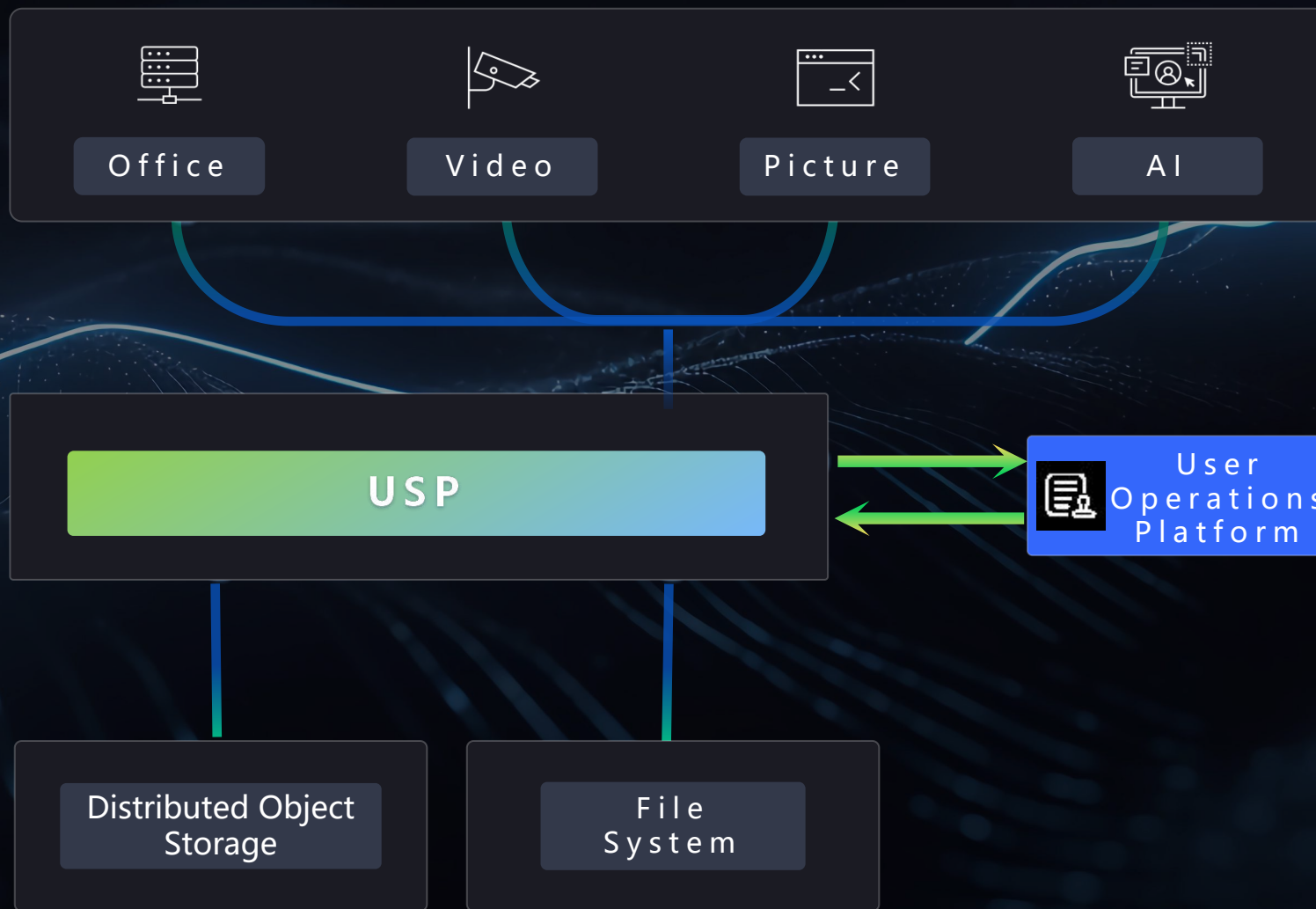
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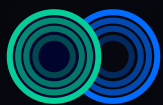
Pain Points

Each storage device deployed in the customer environments must integrate with their authentication and alert systems.

Advantages and Value

- ✓ Integrates seamlessly with various user operation platforms, including PaaS, unified identity authentication, and alert systems. Upper-layer applications interact exclusively with the intelligent storage gateway.
- ✓ Enables auditing of data operations through detailed logs to support regulatory compliance.





Data Protocol Conversion

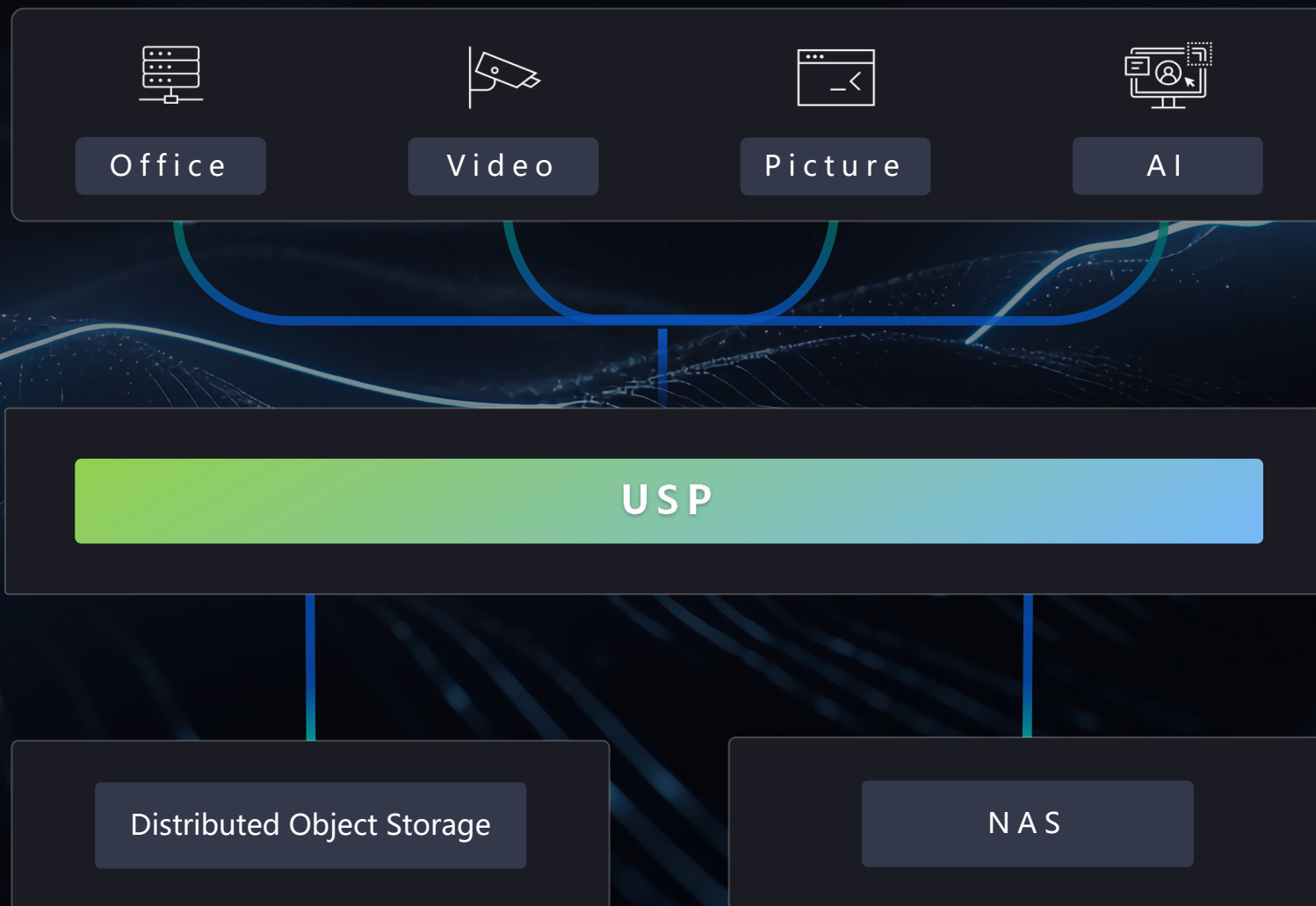
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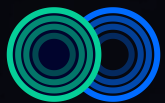
Pain Points

When data protocol mismatches occur between front-end applications and back-end storage, directly altering the data access protocol of front-end applications can impose a substantial operational burden and may be impractical in certain environments.

Advantages and Value

- ✓ Front-end applications and usage methods remain unchanged, preserving end-user habits and workflows.
- ✓ Customers benefit from an open ecosystem with no dependency on specific models or vendors, enabling diverse and flexible deployment choices of storage systems.
- ✓ The system minimizes adaptation efforts across heterogeneous front-end business environments by standardizing data access through a unified protocol.



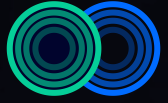


Product Performance Metrics

U S P P R O D U C T I N T R O D U C T I O N

Manageable Data Volume	Supported Number of Clients	Maximum Throughput	Supported Number of Nodes
240 billion+	128,000	128GB/s	64

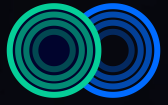
A minimum cluster configuration consists of three nodes, each equipped with 960 GB of storage capacity. This setup supports approximately 1.2 billion files, offers a throughput of 6 GB/s, and accommodates up to 8,000 concurrent clients.



Product Advantages

U S P P R O D U C T I N T R O D U C T I O N

- ✓ **Unified Object and File Interoperability Interface**
- ✓ **Extensive Compatibility**
- ✓ **Cross-Storage Disaster Recovery**
- ✓ **Automated Data Transfer**
- ✓ **Large-Scale Data Migration**



Case Study: Telecom Operator

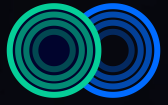
U S P P R O D U C T I N T R O D U C T I O N

Solution Overview

- Centralizes management across heterogeneous storage devices.
- Supports seamless data disaster recovery across different storage systems without the need to modify existing applications.

Key Benefits

- Manages historical data when the original storage vendor can no longer provide services.
- Migrates old data to new storage devices without impacting business operations.
- Automatic failover ensures immediate access to secondary storage during disruptions, with seamless data synchronization resuming once the primary device is restored.



Case Study: Finance Industry

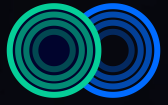
U S P P R O D U C T I N T R O D U C T I O N

Solution Overview

- Achieves unified management of storage devices across multiple locations.
- Seamlessly integrates with PaaS platforms and monitoring systems.

Key Benefits

- Enables complete decoupling between applications and storage systems, preserving front-end stability amid storage infrastructure changes.
- Ensures regulatory compliance through robust log auditing that tracks all data operations.



Case Study: Healthcare

U S P P R O D U C T I N T R O D U C T I O N

Solution Overview

- Seamlessly offloads cold data to Blu-ray storage with no manual input required.

Key Benefits

- Reduces the overall data storage cost.
- Addresses the scalability challenge of Blu-ray storage with respect to billions of files.
- Preserves front-end application integrity.