SOLUTION BRIEF

On-Premise Virtual Private Storage Array
Intel® Xeon® Processor and Intel® Datacenter SSDs
Public-Private Cloud

Zadara Introduces On-Premise as a Service (OPaaS) Storage That Reduces Data Center Costs and Complexity

The Zadara Storage On-Premise as a Service solution reduces the costs and complexity associated with data center storage by delivering fully managed SAN and NAS.

The enterprise storage features you demand, with the flexibility, elasticity, and economic benefits of cloud-based storage—all on-premise within your four walls.

On-Premise as a Service equips data centers with local storage that eliminates purchases and leases, and helps enterprises become more efficient and agile, while simplifying data portability. Zadara's OPaaS solution is powered by a Virtual Private Storage Array™ (VPSA™), which is built on powerful Intel® processors and storage technologies, is renowned for its reliability, flexibility, and true multitenant performance that has been available extensively in public clouds worldwide.

OPaaS installs physical storage on site in customer data centers, but delivers enterprise Storage as a Service (STaaS) that eliminates up-front costs, includes remote storage management, and features usage-based subscription pricing. Since OPaaS combines the benefits of dedicated VPSAs with pay-as-you-go enterprise storage, it transforms your Capital Expenditure (CapEx) storage budgets into pure Operational Expense (OpEx)—billed monthly and without up-front costs—delivering a simplified utility cost model.

Zadara Storage delivers enterprise STaaS using VPSAs that include unique and patented technologies. VPSAs look, perform, and behave like enterprise storage with multiprotocol support, dual high-availability controllers, a choice of drive types (including Intel® SSDs, high-performance HDDs, and 6TB high-capacity drives), flash cache capabilities, and advanced storage features. VPSA advanced enterprise storage management features include:

- **Unified storage**—delivering concurrent multiprotocol data access
- **Flash cache**—accelerating reads and writes, protected under distributed RAID-1
- **Remote mirroring**—enabling business continuity plans and multigeography collaboration
- **Asynchronous replication**—facilitating disaster recovery for business-critical applications
- **Snapshots**—with creation policies simplifying data backup and recovery
- **Clones**—with read/write access supporting test/development applications
- **Thin provisioning**—improving storage efficiency to minimize storage costs
- **Data-at-rest and in-flight encryption**—ensuring strong security of stored information
- **Quality of Service (QoS)**—protecting service level agreements (SLAs)
- **Usage tracking**—with metered billing supporting reporting and chargebacks

Data Mobility with VPSA for the Enterprise

Private Cloud
You don't have to move your databases, applications, and services elsewhere to experience the benefits of the cloud. Deploy VPSA in your data centers as a private cloud using On-Premise as a Service to experience the flexibility, scalability, and pure OpEx benefits of the cloud with the security and control of your on-site location.

Hybrid Cloud
Maximize the power, flexibility, and efficiency of Zadara VPSA with a hybrid cloud deployment. VPSA cloud solutions are available at leading service providers around the world, and match the VPSA in your data center for seamless, simplified data mobility for disaster recovery, backup, or bursting workloads off-site.

Public Cloud
Zadara's SAN and NAS in the cloud offers native block and file storage so organizations can benefit from the cloud without changing existing applications. With true multitenancy, encryption, private resources, and precise control, Zadara's VPSAs are seen as local storage, at partner providers, so you can seamlessly replicate across global regions at a click of a button.

Enterprises can use OPaaS with VPSAs at remote data centers and leading service providers across the globe. Zadara's cloud VPSA connects directly to your cloud Virtual Machines (VMs), and delivers dynamic features and management capabilities identical to your on-premise VPSA, simplifying advanced IT processes such as business continuity, disaster recovery, high availability, scalability, and more.

Zadara Storage On-Premise as a Service

Agility. Control. Data Portability.

Delivers better availability and simplified management at lower prices and no up-front costs:

a. Reduces storage capital and operating expenses
b. Includes 100% storage uptime SLA managed by Zadara Storage[1]
c. Ensures availability, capacity management, and hardware replacement

Improves business agility:

a. Eliminates the need to plan storage acquisition in advance; Zadara automatically delivers more resources as your business needs them
b. Makes launching new applications easy and nondisruptive through native multitenancy
c. Built to scale, so you can easily grow to hundreds of petabytes and beyond

Simplified control with detailed metering and reports you can use:

a. Provides detailed monitoring and usage reporting
b. Includes chargeback and billing to support in-house STaaS operations
c. Delivers flexible REST-based API with GUI and CLI management access and control

Data portability with comprehensive backup and disaster recovery:

a. Offers seamless data portability to Zadara's off-premise cloud VPSA services
b. Enables rich replication and data management features that let you protect your data

How OPaaS Delivers Dedicated and Secure Enterprise STaaS

Zadara brings patented software that is optimized for Intel®-based servers to bring storage simplicity to the end user. By capitalizing on encryption, virtualization, and other storage features from the powerful dual Intel® Xeon® E5 processors on the Intel® Server Board S2600 family, your OPaaS storage experience can include all the advanced capabilities that you would expect from a premier storage solution—all while delivering the flexibility that only OPaaS can provide.

OPaaS transforms storage-related costs from a variable mix of equipment and management expenses to a predictable, on-demand, pay-per-use elastic service.

Users—whether they are large organizations or departments—pay only for the storage they consume, using subscription-based pricing. Rates adapt to options selected, and controlled by users. This includes storage-engine configurations, drive types and quantities, and usable capacity

and performance provisioned as dedicated, private resources for each use. This means that bulk storage needs can be met with entry systems and high-performance storage needs can be met with systems featuring more Intel® DC 3600 Series SSDs. Data-in-flight and data-at-rest encryption (with keys you control) ensures information remains private, continuously protected, and strongly secured.

Enterprise Solutions Enabled by OPaaS

Business needs often require strategic solutions. Disaster recovery, business continuity, and high availability are all great examples of strategic business needs. Successfully implementing a solution driven by a particular need frequently involves overcoming architectural, connectivity, and interoperability challenges. Fortunately, OPaaS works like traditional SAN and NAS storage to facilitate the support of databases and applications and complex business solutions including:

Backup	**Business Continuity**	**Data Protection**
Disaster Recovery	**High Availability**	**Infrastructure as a Service**
Performance Acceleration	**Performance Management**	**Platform as a Service**
Quality of Service	**Scalability**	**Software as a Service**
Storage as a Service	**True Multitenancy**	**Unified Storage**

Get Started with OPaaS

OPaaS enterprise STaaS uniquely brings to the marketplace a unified storage solution that can be deployed with flexibility at your own data center and enables seamless integration with an overall cloud strategy. The ongoing technical collaboration between Intel and Zadara Storage brings an optimized storage experience today and in the future. OPaaS evolves enterprise storage from traditional purchased or leased hardware, software, and services into a pay-as-you-go, fully managed, on-site service with predictable operating expenses only. OPaaS eliminates the need to invest capital into enterprise storage infrastructure and delivers cloud-scale capacity and performance with enterprise SAN and NAS functionality at ever-declining, subscription-based pricing. Nothing else comes close to lowering total cost of ownership (TCO) or increasing return on investment (ROI) like OPaaS.

Zadara Storage is a pioneer provider of Virtual Private Storage Array (VPSA) enterprise Storage as a Service (STaaS), delivering high-performance, highly available, and predictable QoS file and block storage, in a pay-as-you-go model for on-premise in enterprise data centers, at colocation partners, and global service providers. Combine the elasticity, flexibility, and economic benefits of OpEx-based cloud storage with the safety, security, and confidence of being on-premise.

To learn more call Zadara Storage at **+1-949-251-0360**, email **sales@zadarastorage.com**, or visit **www.zadarastorage.com**.

To learn more visit **www.intel.com/storage**.

1. For the VPSA SLA, see sla.zadarastorage.com.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com/storage.

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