IntelliFlash™ Storage Systems

IntelliFlash

The Tintri IntelliFlash intelligent infrastructure is a fourth-generation storage solution that delivers an exceptional user experience through automation, analytic insights, and a variety of time-saving management features to drive your most valuable workloads in today's data centers.

Experience Different!

IT departments are increasingly challenged to deliver storage performance, scalability, and capacity while keeping CAPEX and OPEX in check. Enterprise workloads such as databases and associated applications, server and desktop virtualization, and real-time analytics are driving demand for intelligent infrastructure that can keep up with changing storage dynamics in the data center.

With our comprehensive portfolio of all-flash and hybrid storage systems running a common operating environment, you can transform data into actionable information faster and achieve new levels of efficiency, simplicity, and cost savings.

Mix and Match Media in One Storage System

Whether you need the exceptional performance of NMVe-flash, the sustained performance of SAS-flash or a balance of performance and high capacity afforded by a hybrid system, IntelliFlash intelligent infrastructure cost-effectively satisfies any or all these requirements.

Regardless of which series and model you choose, all IntelliFlash systems share the same operating environment, feature set, and management experience.

IntelliFlash Operating Environment

All IntelliFlash systems run the same IntelliFlash Operating Environment (OE). This fast, flexible OE leverages different grades of storage media — NVMe-flash, SAS-flash, dense-flash, hard disk drives (HDDs) — in a single storage platform.

The IntelliFlash OE understands the inherent characteristics of disparate storage media and intelligently manages data placement to deliver optimal performance at low latency with the best possible economics. It also includes advanced data services, multiprotocol support, flexible management, and intelligent analytics, enabling you to maximize uptime, consolidate workloads, and simplify storage administration.

Analytics for IntelliFlash

Maximize uptime and efficiency, and simplify administration for IntelliFlash storage systems so you can focus on adding business value.

Analytics for IntelliFlash, a no-cost integrated feature of the IntelliFlash OE, enables you to quickly and easily monitor the health, performance, and usage of all your IntelliFlash systems. Powered by cloud-based intelligent analytics and backed by a team of storage experts, you can predict future requirements and detect problems before they develop into component and system failures.
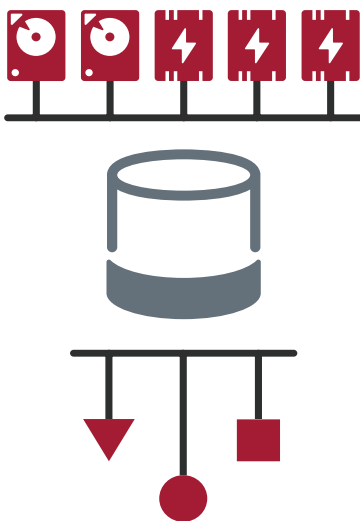

Figure 1. IntelliFlash intelligent infrastructure supports multiple media types
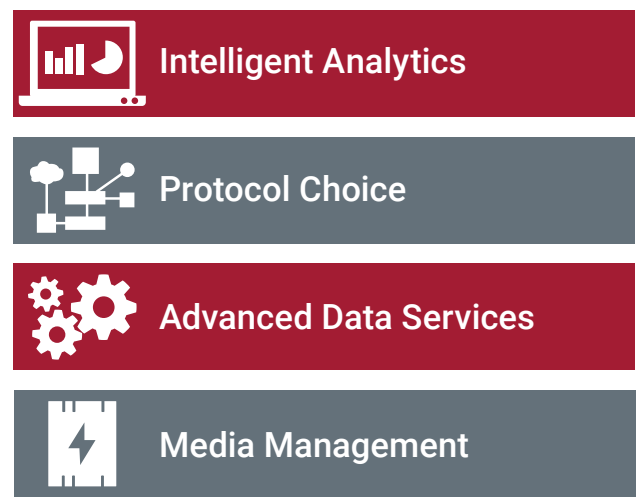

Intelligent Analytics

Protocol Choice

Advanced Data Services

Media Management

Figure 2. IntelliFlash full-featured simplicity

Tintri Intelligent Infrastructure

Data Security

Keep your data safe and secure through 256-bit AES encryption of data at rest. IntelliFlash systems deliver inline data encryption with unnoticeable performance impact. Encryption key management is performed natively in the system without user intervention.

Native Business Continuity

Take instantaneous point-in-time snapshots that are both VM-aware and application-consistent. Plus, you can back them up to the public cloud or any S3-compliant object storage with the IntelliFlash S3 Cloud Connector or replicate snapshots to a remote site for disaster recovery. Replication transmits only changed data to reduce traffic over the WAN. IntelliFlash systems also support virtual server protection through VMware Site Recovery Manager (SRM).

Protocol Flexibility and Choice

Enjoy flexibility and choice when connecting your storage to servers. Eliminate storage silos in your data center through IntelliFlash's native support for Fibre Channel, iSCSI, NFS, and SMB 3.0.

Up to 10:1 Data Reduction

Inline compression and deduplication on both all-flash and hybrid storage pools significantly reduce storage acquisition and operational cost. IntelliFlash intelligent infrastructure delivers these benefits to both SSD and HDD storage media so you can align the expense of storing data with its business value. Redundant virtual server operating system images as well as hundreds or thousands of persistent VDI instances are reduced to a single flash-based storage instance that can launch in seconds.

Storage Simplified

Enjoy single-click provisioning through application-optimized templates that offer integrated backup and replication and eliminate complex backend software. Monitor your storage infrastructure with your own management tools via SNMP.

Purpose-Built for Mixed Workloads

Virtualization alone is not necessarily the end game for all data centers. For organizations that continue to deploy applications on physical servers as well as in virtualized environments, IntelliFlash supports both types of workloads on the same intelligent infrastructure.

One-click virtual machine-optimized storage creation enables hundreds of virtual machines and desktops to be deployed in minutes, not hours. VM-aware management tools and reporting for VMware and Hyper-V environments means you can provision, monitor, and manage your storage at the VM level. As a result, LUNs, file systems, and RAID groups are no longer a concern for virtualization administrators.

Experience Different! For more information on how IntelliFlash can turbo-charge your business success through a simple, intelligent infrastructure, visit tintri.com/intelliflash.

Tintri
Intelligent Infrastructure

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