

Solution Brief

Supercharge Your SAP Landscape

Key Features

Consolidate

Simplify your SAP landscape and consolidate the I/O performance of multiple spindle racks into a few flash rack units. Generous I/O headroom delivers unprecedented levels of consistent performance, serving both production and development from NetApp® All Flash FAS (AFF). Running shared storage has never been easier:

- Run development and operations in the same storage systems, leveraging deep NetApp integration for easier operation and management of the SAP landscape.
- Take advantage of SAP integration for SAP Landscape Virtualization Manager (LVM), out-of-the-box SAP system copy, and cloning.
- Simplify and consolidate your virtualized landscape.

Run SAP Simple

Enjoy end-to-end application integration and built-in data protection for simple operation, system refreshes, and development.

Optimize Database Licenses

Unleash the power of your licensed database CPUs. Let them go to work instead of waiting for I/O to finish. AFF enables consolidation through virtualization and makes more effective use of your licenses.

Reap the Benefits of Unified Protocols

Serve all SAP system demands through a single platform that includes all protocols and tiers.

Future Proof

Scale out the storage platform for more performance or capacity. With the SAP HANA Tailored Datacenter Integration certified system, your IT is prepared for a future SAP HANA migration.

The Challenge

SAP HANA is unquestionably a great vehicle for in-memory databases. But if the time is not right for you to migrate your data to SAP HANA, you might still need to rebalance your existing SAP landscape. As the amount of data and the demand your business systems must handle increase, the satisfaction of their users tends to decrease. Over time, the ability to implement additional processes, system performance, and the operational efficiency of your existing SAP landscape can suffer.

SAP landscapes are demanding, and they pose a challenge for IT. Enterprise resource planning systems have implemented many new and increasingly complex processes. In addition, more data than ever is being stored as it waits to be processed. Like their users, business owners who rely on these systems are never completely happy.

Businesses find themselves constantly making compromises. They must accelerate processes and enable analytic dashboards. They must try not to focus on one case to the disadvantage of others, but they often find that not enough time slots exist to run additional batch jobs, and performance becomes unpredictable. Organizations must also divide their attention among increasing numbers of SAP systems and databases.

It's a familiar scenario: working around the clock, with projects delayed, cost out of control, and service delivery falling below expectations. Under these conditions, a plan that began as a straightforward SAP project in a shared infrastructure can turn into an uncontrollable landscape marred by inflexibility and artificial limitations.

The Solution: NetApp All Flash FAS

It is time to take back control and relieve that pain! NetApp has an SAP landscape supercharger that can accelerate your business and improve the experience of your users who rely on SAP-implemented processes and dashboards.

All Flash FAS (AFF) is NetApp's flash-supercharged all-terrain vehicle that can pull any NAS or SAN workload out of the dirt. Unified protocols provide the grip to make those vehicles feel at home in any environment. Clustering provides the power for multiple AFF systems to pull together. The benefits of data protection and DevOps functionalities for your Oracle, Microsoft SQL, and SAP Sybase ASE databases are included with the system.

NetApp flash-powered storage controllers offer what it takes to make users happy and to simplify administrators' lives. These storage controllers don't force you to make compromises. They free you to focus on real challenges.

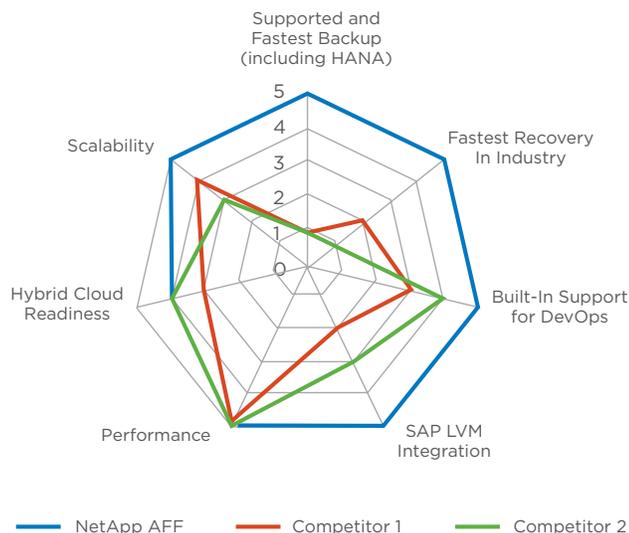


Figure 1) Must-haves in SAP environments and storage vendor support.

Run SAP Simple

NetApp AFF lifts the performance of your SAP systems and of your entire IT structure. With AFF, there is no need to compromise on feature richness or on how you choose to integrate features into your SAP landscape. Whether your environment runs SAP on SAP HANA or SAP on other databases, AFF has the built-in capability to finish backups in a few seconds. AFF also provides end-to-end backup integration, SAP LVM integration for landscape management, cloning capabilities, and industry-leading backup and recovery features. Figure 1 shows the outstanding value of NetApp AFF compared to industry competitors in the key categories that matter most.

Shorten Your Maintenance Windows

NetApp AFF significantly reduces SAP upgrade times. Clustered Data ONTAP is key to implementing an economic infrastructure, and NetApp AFF easily integrates into existing NetApp FAS clusters. The simplicity of data handling in the cluster enables data on capacity tiers to be moved to flash storage. As a result, long-running system upgrade jobs are reduced to just a few hours. The shorter maintenance window gives you back valuable time that you can invest in planning or in increasing your delivery quality.

Performance Balance

Performance analysis of databases with SAP workloads shows that most databases spend a significant amount of time waiting for read I/O to finish. The resulting congestion causes an increase in latency. During database scans, ETLs, batch jobs, and SAP Business Warehouse workloads, latency typically reaches extreme levels.

Deploying NetApp AFF can turn this read I/O delay into a problem of the past. Imagine the benefits: What might you be able to do for your business if your systems had additional hours to collect business insights?

- **Get more done.** With AFF, existing jobs finish in much less time. AFF frees headroom that you can use for additional reports to give your business the information it needs.
- **Create a consistent user experience.** High storage performance enables your SAP systems to provide consistently fast response times for users at any time of the day.

References

- TR-4415: NetApp AFF8080 EX Performance and Server Consolidation with Oracle Database <http://www.netapp.com/us/media/tr-4415.pdf>
- TR-4403: NetApp AFF8080 EX Performance and Server Consolidation with Microsoft SQL Server 2014 <http://www.netapp.com/de/media/tr-4403.pdf>
- DWD: Every Second Counts in Weather Forecasting <http://www.netapp.com/us/media/cs-dwd.pdf>
- TR-4038: Cloning SAP on Sybase ASE with NetApp <http://www.netapp.com/us/media/tr-4038.pdf>

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Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future.

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